

TEACHERS RECRUITMENT TEST-2022

B.Sc., B.Ed. (PCM)

**ST & SC DEVELOPMENT, MINORITIES & BACKWARD
CLASSES WELFARE DEPARTMENT**

**GOVERNMENT OF ODISHA
BHUBANESWAR**

<i>Time</i>	:	90 Minutes
<i>Full Marks</i>	:	100*
<i>No. of Questions</i>	:	100
<i>No. of Pages</i>	:	16

INSTRUCTIONS

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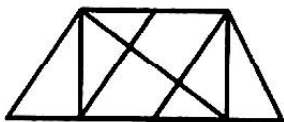
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 (a) 12th January 1946
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 (a) Covishield (b) Sputnik
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 (a) Vitamin - C (b) Vitamin - D
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21. In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?
 (a) MFEDJJOE (b) MFEJDJOE
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22. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?
 (a) Grandfather (b) Daughter
 (c) Grandmother (d) Granddaughter
23. In a certain code language, '134' means 'good and tasty' '478' means 'see good pictures' '729' means 'pictures are faint'. Which of the following digits stands for 'see'?
 (a) 8 (b) 9
 (c) 4 (d) 7
24. If A stands for '×', B stands for '-', C stands for '+' what is the value of (9 C 5) A (6 B 6) =?
 (a) 0 (b) 168
 (c) 162 (d) None of these
25. Statement: There has been an unprecedented increase in the number of successful candidates in this year's School Leaving Certificate Examination.
 Courses of Action:
 I. The government should make arrangements to increase number of seats of intermediate courses in existing colleges.
 II. The government should take active steps to open new colleges to accommodate all these successful candidates.
 (a) Only I follows
 (b) Only II follows
 (c) Either I or II follows
 (d) Neither I nor II follows

26. The day before yesterday was Saturday. What day will it be the day after tomorrow?

- (a) Tuesday (b) Wednesday
(c) Thursday (d) Friday

27. Find the number of triangles in the given figure.



- (a) 8 (b) 10
(c) 12 (d) 14

28. Your college has organized a blood donation camp. You

- (a) persuade your friends to donate
(b) donate your blood at the camp
(c) do not believe in donating blood and decide not to attend
(d) yourself do not believe in donating blood but ask other to do so

29. You are handling a time-bound project. During the project review meeting, you find that the project is likely to get delayed due to lack of cooperation of the team members. You would...

- (a) Warn the team members for their non-cooperation
(b) Look into reasons for non-cooperation
(c) Ask for the replacement of team members
(d) Ask for an extension of time citing reasons

30. You are competing with your batch-mate for the prestigious award to be decided based on an oral presentation. You have been asked by the committee to finish on time. Your friend, however, is allowed more than the stipulated time period.

- (a) Lodge a complaint to chairperson against the discrimination
(b) Not listen to any justification from the committee
(c) Ask for withdrawal of your name
(d) Protest and leave the place

31. Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is:

- (a) 28 (b) 33
(c) 55 (d) 64

32. The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is:

- (a) 20 (b) 19
(c) 23 (d) None of these

33. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:

- (a) 276 (b) 322
(c) 276 (d) 385

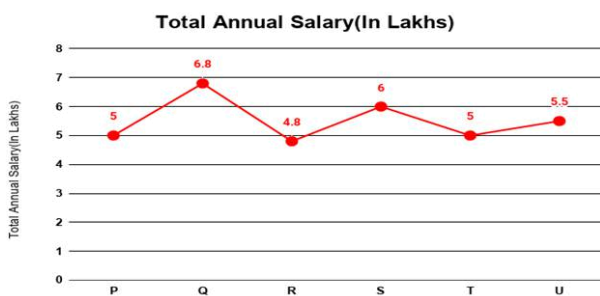
34. A watch when sold for Rs. 400 fetches 25 percent profit, what would be the percentage profit/loss if 6 such watches are sold for Rs. 2112?

- (a) 10% loss (b) 10% profit
(c) 5% loss (d) 5% profit

35. A person takes a loan of Rs. 2500 at 4% simple interest. He returns Rs.1500 at the end of 1 year. What amount he would pay to clear his dues at the end of 2 years?
- (a) Rs. 1140 (b) Rs. 1150
(c) Rs. 1100 (d) Rs. 1050

Directions : (36-40) Read the following graph carefully and answer the question given below.

Line graph given below shows the total annual salary (in lakhs) of six different persons P, Q, R, S, T and U in 2021.

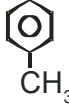





36. If the total annual salary of P is increased by 1 lakhs and the total annual salary of Q is decreased by 0.8 lakh then what is the percent increase or decrease in P's salary with respect to Q's salary?
- (a) 10% (b) 5%
(c) 1% (d) None of these
37. What is the ratio of total annual salary of P and T to the total annual salary of S and R?
- (a) 27:25 (b) 25:27
(c) 5:9 (d) 9:5
38. What is the percent increase in the total annual salary of U with respect to the total annual salary of T?
- (a) 5% (b) 10%
(c) 5.5% (d) 10.5%
39. Which of the following pairs have same total annual salary?
- (a) PT (b) ST
(c) PS (d) QR
40. What is the average of total annual salary of P, R, S and T (in lakhs) in 2021?
- (a) 5 Lakhs (b) 4.8 Lakhs
(c) 5.2 Lakhs (d) 5.4 Lakhs
41. ICT stands for _____.
- (a) Information and Communication Technology
(b) Information and Communication Terminology
(c) Information and Common Technology
(d) Information to Communication Technology
42. The use of computer in education started in the year
- (a) 1970 (b) 1980
(c) 1990 (d) 2000
43. 1KB = _____ bytes.
- (a) 64 (b) 128
(c) 1024 (d) 2048
44. Which of the following is not computer hardware?
- (a) RAM (b) Keyboard
(c) MS Paint (d) Monitor

45. _____ act as an interface between the user and the computer.
- (a) Operating System
 - (b) Ms Excel
 - (c) Impress
 - (d) Digital Documentation
46. A device which can be connected to a network without using cable is called
- (a) Distributed device
 - (b) Centralized device
 - (c) Open-source device
 - (d) Wireless device
47. What is internet?
- (a) a single network
 - (b) a vast collection of different networks
 - (c) interconnection of local area networks
 - (d) interconnection of wide area networks
48. Which of the following is the most viral section of the internet?
- (a) Chat Messenger
 - (b) Social networking sites
 - (c) Tutorial sites
 - (d) Chat-rooms
49. Many social media sites and services provide _____ for legitimate account verification.
- (a) Retina scanning
 - (b) Fingerprint scanning
 - (c) Captcha
 - (d) 2-step verification
50. Which of the following is the best definition of a good digital citizen?
- (a) Someone who recognizes that there are rights and responsibilities associated with using the internet and other information technology
 - (b) Someone who participates actively and often in social media
 - (c) Someone who limits the amount of time they spend on the internet
 - (d) Someone who is good at using computers or mobile devices
51. Transmission of genetic characteristic from parents to offspring is called :
- (a) Learning
 - (b) Maturation
 - (c) Heredity
 - (d) None of the above
52. Which of the following affects the development of self concept of the adolescents ?
- (a) Success
 - (b) Failure
 - (c) Acceptance
 - (d) Achievement
53. According to Jean Piaget, Children are no longer egocentric when entering :
- (a) Sensori motor stage
 - (b) Pre operational stage
 - (c) Formal operational stage
 - (d) Concrete operational stage

54. The three major aspects of moral development are :
- Stimulus, Response and Consequences
 - Thoughts, Behaviours and Feelings
 - Individual, Family and Society
 - Id, Ego and Super ego
55. What language should the teacher use while teaching Scheduled Tribe Students so as to meet their Language Problems ?
- Pupil's Spoken Language
 - Standard Language
 - Book Language
 - Both book and spoken language
56. Which of the following is not associated with constructivism ?
- Knowledge is constructed
 - Learning is an active process
 - Teacher plays pivotal role
 - Learning is a social activity
57. Which of the following is not associated with conditions of Learning ?
- Motivation
 - Readiness
 - Learning Experiences
 - Evaluation Strategy
58. Radio belongs to which type of Teaching Aid ?
- Audio Aids
 - Visual Aids
 - Audio-Visual Aids
 - Activity Aids
59. In a classroom situation while using context of Learner the teacher has to do;
- Context Analysis
 - Learner Analysis
 - Both A and B
 - Instructional Analysis
60. Which of the following does not belong to principles of Democratic Management ?
- Principle of freedom
 - Principle of equality
 - Principle of Centralization
 - Principle of Leadership
61. School Management Committee is constituted on the basis of :
- Kothari Commission (1964-66)
 - National Policy on Education 1986
 - Right to free and Compulsory Education Act 2009
 - Secondary Education Commission (1952-53)
62. 'Management is what Manager does' belongs to which concept of Management ?
- Functional
 - Human Relations
 - Leadership
 - Decision Making
63. Which age group of children will be covered under foundational stage as per NPE 2020.
- 8-11 years
 - 3-8 years
 - 11-14 years
 - 14-19 years

64. When RTE Act was implemented in India ?
- 4th August 2009
 - 3rd July 2010
 - 4th June 2009
 - 1st April 2010
65. Samagra Shiksha is meant for which group of children ?
- Preschool to Class-12
 - Class one to Class-8
 - Class one to Class-12
 - Preschool to college education
66. Evaluation is a systematic process of collecting and analyzing data in order to make :
- Prediction
 - Judgement
 - Decisions
 - Results
67. Recurring difficulties in Learning are identified in :
- Summative Evaluation
 - Diagnostic Evaluation
 - Formative Evaluation
 - None of the above
68. The quality testing in education is only possible by using :
- Achievement Test
 - Intelligence Test
 - Standardised Achievement Test
 - Aptitude Test
69. Blue Print is used in preparing the question paper because :
- Questions become easy and simple
 - Different type of questions find place
 - Subjectivity in evaluation is reduced
 - The evaluation becomes easy and error free
70. Continuous and Comprehensive Evaluation mainly aims at :
- Holistic development
 - Scholastic development
 - Cognitive development
 - Conative development
71. Which of the following acids has lowest gram equivalent mass ?
- Metaphosphoric acid
 - Orthophosphoric acid
 - Phosphoric acid
 - Hypophosphoric acid
72. The density of CO_2 at 373 K and 1.05 atm. pressure is _____ gram L^{-1} .
- 2.502
 - 1.205
 - 1.51
 - 2.41
73. The number of electrons with clockwise spin in $\text{Fe}^{3+}(\text{Aq})$:
- 14
 - 10
 - 24
 - none of these

74. The group that has maximum number of elements in long form periodic table is :
 (a) 18 (b) 01
 (c) 03 (d) 17
75. In which of the following pairs of species, there occurs different types of hybridisation ?
 (a) NH_3 and N^+H_4
 (b) SO_2 and SO_3
 (c) BCl_3 and NCl_3
 (d) BeH_2 and C_2H_2
76. Which of the following statements is wrong ?
 (a) Thiosulfate ion oxidises to tetrathionate ion
 (b) H_2O_2 liberates iodine from KI (aq)
 (c) $5\bar{e}(\text{s})$ are involved in the reduction of MnO_4^- to M_n^{2+}
 (d) All types of reaction can be balanced by change in oxidation number method
77. Equal volumes of solutions with $\text{pH}=4$ and $\text{pH}=10$ are mixed. The pH of the resulting solution is :
 (a) 14 (b) 06
 (c) 07 (d) 6.8
78. Self reduction in metallurgy is not occurred in metal like :
 (a) Hg (b) Pb
 (c) Cu (d) Mg
79. Which of the carbanions is more stable ?
 (a) $(\text{CH}_3)_3\text{C}^-$
 (b) $\text{CH}_3 - \text{CH}_2^-$
 (c) $\text{ClCH}_2 - \text{CH}_2 - \text{CH}_2^-$
 (d) $\text{CH}_3 - \text{CO} - \text{CH}_2^-$
80. The stability of the following species will be in the order :
 (I)  (II) 
 (III)  (IV) 
 (a) $\text{III} > \text{I} > \text{II} > \text{IV}$
 (b) $\text{IV} > \text{I} > \text{II} > \text{III}$
 (c) $\text{II} > \text{I} > \text{III} > \text{IV}$
 (d) $\text{I} > \text{II} > \text{III} > \text{IV}$
81. A constant force acts upon a body of mass 10 kg for 5 seconds. After that the force ceases to act and the body moves through a distance of 60 m in 6 seconds. The magnitude of the force acting on the body is :
 (a) 10 N (b) 20 N
 (c) 30 N (d) 40 N
82. How many days will there be in a year when the distance of earth from the Sun reduces to $1/4$ th of its value ?
 (a) 365 days (b) 730 days
 (c) 91.25 days (d) 45.6 days

83. If the absolute temperature of a gas becomes 4 times, its molecular kinetic energy becomes :

(a) 4 times (b) 16 times

(c) $\frac{1}{16}$ times (d) $\frac{1}{4}$ times

84. Total energy of a particle executing SHM is proportional to :

(a) Displacement from equilibrium position

(b) Frequency of oscillation

(c) Square of its instantaneous velocity

(d) Square of amplitude of oscillation

85. To hear an echo in one second, the reflecting surface should be at :

(a) 330 m (b) 660 m

(c) 165 m (d) 115 m

86. A coin placed at the bottom of a beaker containing a liquid of refractive index 'n' upto a height 'h', when viewed from the top would appear to be raised through a height equal to :

(a) $\frac{n+1}{n}h$ (b) $\frac{n-1}{n}h$

(c) $\frac{n-1}{n+1}h$ (d) $\frac{n}{n+1}h$

87. Diffraction of light is :

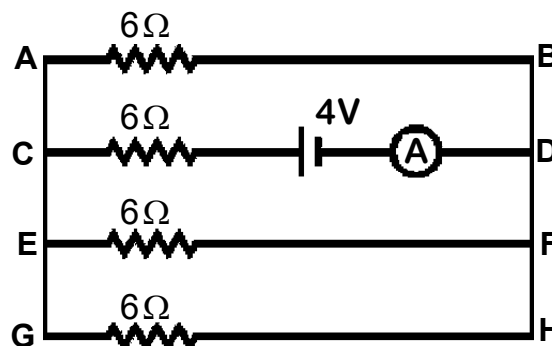
(a) Splitting of white light into its component colours

(b) Bending of light rays while travelling from one medium to another

(c) Bending of light rays through a prism

(d) Bending of light at a sharp edge

88. Four 6 ohm resistances, a 4V battery and an ammeter are connected as shown. The reading in the ammeter will be :



(a) $\frac{2}{3}$ amp (b) $\frac{1}{2}$ amp

(c) $\frac{8}{3}$ amp (d) $\frac{3}{2}$ amp

89. When two capacitors are arranged in parallel their capacitance is $5\mu\text{F}$; and if they are arranged in series their capacitance is $1.2\mu\text{F}$. They have capacitances equal to :

(a) $4\mu\text{F}$, $1\mu\text{F}$

(b) $2.5\mu\text{F}$, $2.5\mu\text{F}$

(c) $3\mu\text{F}$, $2\mu\text{F}$

(d) $3.5\mu\text{F}$, $1.5\mu\text{F}$

90. A 220 volt DC is equivalent to an alternating emf of amplitude :

(a) $220\sqrt{2}$ volts

(b) $\frac{220}{\sqrt{2}}$ volts

(c) 220 volts

(d) 110 volts

91. $A = \{x \mid x \text{ is a digit in the number } 3591\}$
 $B = \{x \mid x \in \mathbb{N}, x < 10\}$ which of the following is not correct ?
- (a) $A \cap B = \{1, 3, 5, 9\}$
 (b) $A - B = \emptyset$
 (c) $B - A = \{2, 4, 6, 7, 8\}$
 (d) $A \cup B = \{1, 2, 3, 5, 9\}$
92. Let $A = \{2, 3, 4, 5\}$ and $R = \{(2, 2), (3, 3), (4, 4), (5, 5), (2, 5)\}$ be a relation in A then R is _____.
- (a) reflexive (b) symmetric
 (c) transitive (d) none of these
93. If x, y, z are positive and unequal then $(x + y)(y + z)(z + x)$ _____ $8xyz$.
- (a) $>$ (b) $<$
 (c) $=$ (d) none of these
94. $f: [0, \pi/2] \rightarrow [0, \infty]$ is a function defined by $f(x) = \sin \frac{x}{2}$ then f is _____
- (a) Injective (b) Surjective
 (c) Bijective (d) None of these
95. If 2 lies between the roots of the quadratic equation $x^2 - ax + a = 0$ then _____
- (a) $0 < a < 4$ (b) $a < 4$
 (c) $a > 4$ (d) none of these
96. Find the sum of n terms of an AP whose nth term is $a_n = 5 - 6n$, $n \in \mathbb{N}$.
- (a) $n(2 - 3n)$ (b) $n(3n - 2)$
 (c) $\frac{n}{2}(2 - 3n)$ (d) none of these
97. Equation of ellipse whose centre is at origin and one vertex is (5, 0) and one end of minor axis is (0, 3) is _____
- (a) $\frac{x^2}{9} + \frac{y^2}{25} = 1$ (b) $\frac{x^2}{25} + \frac{y^2}{9} = 1$
 (c) $x^2 + y^2 = 16$ (d) none of these
98. $\lim_{x \rightarrow \frac{1}{2}} [2x] =$ _____
- (a) 1 (b) -1
 (c) 0 (d) none of these
99. Standard deviation of 1st n natural numbers is _____
- (a) $\frac{n+1}{2}$ (b) $\frac{\sqrt{n^2 - 1}}{12}$
 (c) $\frac{n-1}{2}$ (d) none of these
100. The probability that two persons have their same birthday is (considering year to be of 365 days) _____
- (a) $\frac{364}{365}$ (b) $\left(\frac{1}{365}\right)^2$
 (c) $\frac{1}{365}$ (d) none of these

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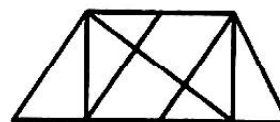
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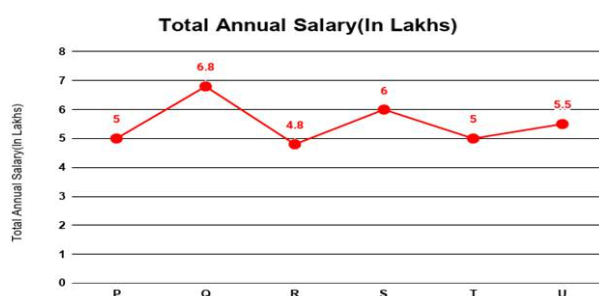
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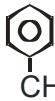

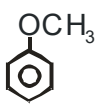

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48. Which of the following is the most viral section of the internet?
- (a) Chat Messenger
 - (b) Social networking sites
 - (c) Tutorial sites
 - (d) Chat-rooms
49. Many social media sites and services provide _____ for legitimate account verification.
- (a) Retina scanning
 - (b) Fingerprint scanning
 - (c) Captcha
 - (d) 2-step verification
50. Which of the following is the best definition of a good digital citizen?
- (a) Someone who recognizes that there are rights and responsibilities associated with using the internet and other information technology
 - (b) Someone who participates actively and often in social media
 - (c) Someone who limits the amount of time they spend on the internet
 - (d) Someone who is good at using computers or mobile devices
51. Transmission of genetic characteristic from parents to offspring is called :
- (a) Learning
 - (b) Maturation
 - (c) Heredity
 - (d) None of the above
52. Which of the following affects the development of self concept of the adolescents ?
- (a) Success
 - (b) Failure
 - (c) Acceptance
 - (d) Achievement
53. According to Jean Piaget, Children are no longer egocentric when entering :
- (a) Sensori motor stage
 - (b) Pre operational stage
 - (c) Formal operational stage
 - (d) Concrete operational stage
54. The three major aspects of moral development are :
- (a) Stimulus, Response and Consequences
 - (b) Thoughts, Behaviours and Feelings
 - (c) Individual, Family and Society
 - (d) Id, Ego and Super ego

55. What language should the teacher use while teaching Scheduled Tribe Students so as to meet their Language Problems ?
 - (a) Pupil's Spoken Language
 - (b) Standard Language
 - (c) Book Language
 - (d) Both book and spoken language
56. Which of the following is not associated with constructivism ?
 - (a) Knowledge is constructed
 - (b) Learning is an active process
 - (c) Teacher plays pivotal role
 - (d) Learning is a social activity
57. Which of the following is not associated with conditions of Learning ?
 - (a) Motivation
 - (b) Readiness
 - (c) Learning Experiences
 - (d) Evaluation Strategy
58. Radio belongs to which type of Teaching Aid ?
 - (a) Audio Aids
 - (b) Visual Aids
 - (c) Audio-Visual Aids
 - (d) Activity Aids
59. In a classroom situation while using context of Learner the teacher has to do;
 - (a) Context Analysis
 - (b) Learner Analysis
 - (c) Both A and B
 - (d) Instructional Analysis
60. Which of the following does not belong to principles of Democratic Management ?
 - (a) Principle of freedom
 - (b) Principle of equality
 - (c) Principle of Centralization
 - (d) Principle of Leadership
61. School Management Committee is constituted on the basis of :
 - (a) Kothari Commission (1964-66)
 - (b) National Policy on Education 1986
 - (c) Right to free and Compulsory Education Act 2009
 - (d) Secondary Education Commission (1952-53)
62. 'Management is what Manager does' belongs to which concept of Management ?
 - (a) Functional
 - (b) Human Relations
 - (c) Leadership
 - (d) Decision Making

63. Which age group of children will be covered under foundational stage as per NPE 2020.
- (a) 8-11 years (b) 3-8 years
(c) 11-14 years (d) 14-19 years
64. When RTE Act was implemented in India ?
- (a) 4th August 2009
(b) 3rd July 2010
(c) 4th June 2009
(d) 1st April 2010
65. Samagra Shiksha is meant for which group of children ?
- (a) Preschool to Class-12
(b) Class one to Class-8
(c) Class one to Class-12
(d) Preschool to college education
66. Evaluation is a systematic process of collecting and analyzing data in order to make :
- (a) Prediction (b) Judgement
(c) Decisions (d) Results
67. Recurring difficulties in Learning are identified in :
- (a) Summative Evaluation
(b) Diagnostic Evaluation
(c) Formative Evaluation
(d) None of the above
68. The quality testing in education is only possible by using :
- (a) Achievement Test
(b) Intelligence Test
(c) Standardised Achievement Test
(d) Aptitude Test
69. Blue Print is used in preparing the question paper because :
- (a) Questions become easy and simple
(b) Different type of questions find place
(c) Subjectivity in evaluation is reduced
(d) The evaluation becomes easy and error free
70. Continuous and Comprehensive Evaluation mainly aims at :
- (a) Holistic development
(b) Scholastic development
(c) Cognitive development
(d) Conative development
71. Which of the following acids has lowest gram equivalent mass ?
- (a) Metaphosphoric acid
(b) Orthophosphoric acid
(c) Phosphoric acid
(d) Hypophosphoric acid

72. The density of CO_2 at 373 K and 1.05 atm. pressure is _____ gram L^{-1} .
- (a) 2.502 (b) 1.205
(c) 1.51 (d) 2.41
73. The number of electrons with clockwise spin in $\text{Fe}^{3+}(\text{Aq})$:
- (a) 14 (b) 10
(c) 24 (d) none of these
74. The group that has maximum number of elements in long form periodic table is :
- (a) 18 (b) 01
(c) 03 (d) 17
75. In which of the following pairs of species, there occurs different types of hybridisation ?
- (a) NH_3 and N^+H_4 (b) SO_2 and SO_3
(c) BCl_3 and NCl_3 (d) BeH_2 and C_2H_2
76. Which of the following statements is wrong ?
- (a) Thiosulfate ion oxidises to tetrathionate ion
(b) H_2O_2 liberates iodine from $\text{KI}(\text{aq})$
(c) $5\bar{e}(\text{s})$ are involved in the reduction of $\text{Mn}\bar{\text{O}}_4$ to M_n^{2+}
(d) All types of reaction can be balanced by change in oxidation number method
77. Equal volumes of solutions with $\text{pH}=4$ and $\text{pH}=10$ are mixed. The pH of the resulting solution is :
- (a) 14 (b) 06
(c) 07 (d) 6.8
78. Self reduction in metallurgy is not occurred in metal like :
- (a) Hg (b) Pb
(c) Cu (d) Mg
79. Which of the carbanions is more stable ?
- (a) $(\text{CH}_3)_3\text{C}^\ominus$
(b) $\text{CH}_3 - \text{C}^\ominus\text{H}_2$
(c) $\text{ClCH}_2 - \text{CH}_2 - \text{C}^\ominus\text{H}_2$
(d) $\text{CH}_3 - \text{CO} - \text{C}^\ominus\text{H}_2$
80. The stability of the following species will be in the order :
- (I)  (II) 
(III)  (IV) 
- (a) $\text{III} > \text{I} > \text{II} > \text{IV}$
(b) $\text{IV} > \text{I} > \text{II} > \text{III}$
(c) $\text{II} > \text{I} > \text{III} > \text{IV}$
(d) $\text{I} > \text{II} > \text{III} > \text{IV}$

81. Haplo-diplontic pattern of life cycle is seen in :
- all the algae
 - all the bryophytes, pteridophytes and some algae
 - all the gymnosperms
 - all the angiosperms
82. As per histogen theory periblem gives rise to :
- epidermis
 - vascular tissues
 - pith and pericycle
 - hypodermis, cortex, and endodermis
83. In mesophyll tissues of C_4 plants carbon dioxide fixation takes place by carboxylation of :
- RuBP
 - PGA
 - PEP
 - OAA
84. During photosynthesis the oxygen in glucose comes from :
- water
 - carbon dioxide
 - both water and carbon dioxide
 - RuBP carboxylase oxygenase
85. The percentage of solar energy, captured by the plants in terrestrial habitats is :
- 1 to 3
 - 5 to 8
 - 10 to 15
 - 20 to 23
86. Of the following, the one which generally acts as an antagonist to gibberellins is :
- zeatin
 - ethylene
 - ABA
 - IAA
87. Pollen intine is made up of :
- sporopollenin
 - cellulose and pectin
 - ergosterol
 - phospholipids and cholesterol
88. The best example of pleiotropy is :
- skin colour
 - colour blindness
 - phenylketonuria
 - ABO blood group
89. Late blight of potato disease is caused by :
- Albugo candida*
 - Alternaria solani*
 - Peronospora cubensis*
 - Phytophthora infestans*
90. Test cross is used :
- to validate a previously discovered finding
 - to determine if the plant with the dominant phenotype is homozygous or heterozygous
 - to determine the genetic compatibility of two plant species
 - to describe a model of genotype of a plant species

91. Which two groups of vertebrates are homeotherms ?
- Birds are Reptiles
 - Amphibians and Fishes
 - Birds and Mammals
 - Mammals and Pisces
92. During which phase of cell cycle DNA replication takes places ?
- Gap1 - phase (G1)
 - S - phase (S)
 - Gap - 2 phase (G2)
 - Mitosis (Movement) (M)
93. If the distance between two genes is more the percentage of crossing over between the two gene will be :
- Same
 - Less
 - More
 - Variable
94. When two related species or populations exist in the same geographic region are :
- Sympatric
 - Allopatric
 - Sibling
 - Neopatric
95. Organisms capable of synthesizing its food from inorganic sources are :
- Chemotrophs
 - Autotrophs
 - Symbiotic
 - Saprophytic
96. In which organelle Krebs' cycle operates ?
- Golgi complex
 - Lysosome
 - Ribosome
 - Mitochondria
97. Gland that has both exocrine and endocrine function is :
- Adrenal
 - Thyroid
 - Pancreas
 - Thymus
98. From 100 spermatids, the number of spermatozoa formed after spermiogenesis are :
- 100
 - 200
 - 50
 - 25
99. In which of the following organs ammonia is converted to Urea ?
- Heart
 - Liver
 - Kidney
 - Spleen
100. Which of the following is called 'pace maker' of heart ?
- AV node
 - Purkinje fibres
 - Bundle of HIS
 - SA node

ROUGH WORK

TEACHERS RECRUITMENT TEST-2022

B.A., B.Ed. (Arts)

**ST & SC DEVELOPMENT, MINORITIES & BACKWARD
CLASSES WELFARE DEPARTMENT**

**GOVERNMENT OF ODISHA
BHUBANESWAR**

<i>Time</i>	:	90 Minutes
<i>Full Marks</i>	:	100*
<i>No. of Questions</i>	:	100
<i>No. of Pages</i>	:	16

INSTRUCTIONS

Read the following instructions carefully before answering in the OMR Sheet.

1. Write the answers in OMR sheet.
2. Verify that the Question Booklet contains 16 pages. If any discrepancy is there, report to the invigilator immediately and ask for change of questions booklet.
3. Start answering when you are told to do so. Do not turn the pages before that.
4. Answer all the questions. Each question has four probable answers of which one is correct. You have to choose the correct answer and darken the bubble with the Black or Blue ball point pen.
5. *Each question will carry 1 mark each and there will be negative marking @0.25 mark for wrong answer.
6. Return the Answer Sheet only to the invigilator as soon as the final bell rings.

1. Who was the first 'Padma Bibhusana' awardee from Odisha ?
 (a) Sudarshan Sahoo
 (b) Raghunath Panigrahi
 (c) Kelucharan Mohapatra
 (d) Raghunath Mohapatra
2. Which is the main venue of the iconic parade for celebration of the country's republic day at New Delhi ?
 (a) Red Fort
 (b) Rastrapati Bhavan Lawns
 (c) Raj Ghat
 (d) Raj Path
3. Where was the Summer Olympic, 2020 held ?
 (a) Beijing (b) Tokyo
 (c) New Delhi (d) Athens
4. When was India's first organised armed rebellion called 'Paika Bidroha' against British rule held ?
 (a) 1817 (b) 1837
 (c) 1857 (d) 1917
5. Who was the first President of Indian National Congress ?
 (a) Dr. Rajendra Prasad
 (b) A. O. Hume
 (c) Umesh Chandra Banerjee
 (d) Lord Mountbatten
6. 'Dandi Manch' is otherwise called :
 (a) Quit India Movement
 (b) Noncooperating Movement
 (c) Khilafat Movement
 (d) Salt Satyagraha
7. Which is the northern most state of India?
 (a) Himachal Pradesh
 (b) Uttarakhand
 (c) Jammu & Kashmir
 (d) Punjab
8. Where is the Thar desert located ?
 (a) Rajasthan
 (b) Gujarat
 (c) Uttar Pradesh
 (d) Maharastra
9. Which is the largest island in Antartica?
 (a) King George Island
 (b) Alexander Island
 (c) Livingstone Island
 (d) Ross Island
10. GST was introduced as the _____ amendment act ?
 (a) 92 (b) 99
 (c) 101 (d) 110
11. How many members of Odisha represent in Rajya Sabha ?
 (a) 31 (b) 21
 (c) 15 (d) 10
12. Who is now the National Security adviser to the Government of India ?
 (a) M. K. Narayan
 (b) Shivashankar Menon
 (c) Ajit K. Doval
 (d) J. J. Dixit
13. What is meant by Central Vista Project ?
 (a) National Highway
 (b) Metro Railways
 (c) New Parliament Building
 (d) New Satellite Project

14. Who is now the Governor of Reserve Bank of India ?
 (a) Vithal Acharya
 (b) Shashikanta Das
 (c) Urjit Patel
 (d) Raghuram Rajan
15. When ₹500/- and ₹1000/- currency notes were recently demonetised to curb black money ?
 (a) 12th January 1946
 (b) 16th January 1978
 (c) 8th November 2016
 (d) 31st December 2020
16. Which one is not Crypto currency ?
 (a) Bitcoin (b) Monero
 (c) Litecoin (d) INR
17. What was the major achievement of our failed moon mission Chandrayaan-2 ?
 (a) Existence of water and ice on moon
 (b) Existence of air on moon
 (c) Existence of life on moon
 (d) Determination of origin of moon
18. Which is the smallest visual element on a video monitor ?
 (a) Character (b) Pixel
 (c) Byte (d) Bit
19. Which is the indigenously developed COVID-19 Vaccine of India ?
 (a) Covishield (b) Sputnik
 (c) Covaxin (d) Astrazenaca
20. Which vitamin is water soluble ?
 (a) Vitamin - C
 (b) Vitamin - D
 (c) Vitamin - E
 (d) Vitamin - K
21. In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?
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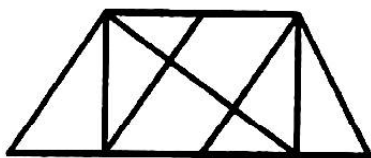
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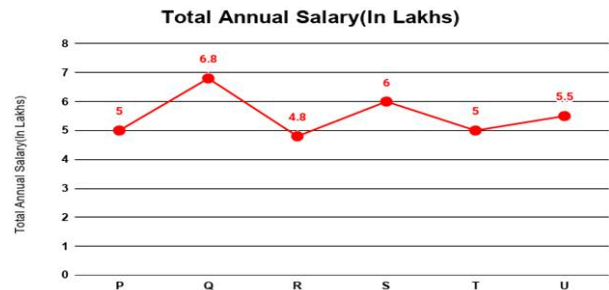
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 (c) interconnection of local area networks
 (d) interconnection of wide area networks
48. Which of the following is the most viral section of the internet?
 (a) Chat Messenger
 (b) Social networking sites
 (c) Tutorial sites
 (d) Chat-rooms
49. Many social media sites and services provide _____ for legitimate account verification.
 (a) Retina scanning
 (b) Fingerprint scanning
 (c) Captcha
 (d) 2-step verification
50. Which of the following is the best definition of a good digital citizen?
 (a) Someone who recognizes that there are rights and responsibilities associated with using the internet and other information technology
 (b) Someone who participates actively and often in social media
 (c) Someone who limits the amount of time they spend on the internet
 (d) Someone who is good at using computers or mobile devices

51. Transmission of genetic characteristic from parents to offspring is called :
 - (a) Learning
 - (b) Maturation
 - (c) Heredity
 - (d) None of the above
52. Which of the following affects the development of self concept of the adolescents ?
 - (a) Success (b) Failure
 - (c) Acceptance (d) Achievement
53. According to Jean Piaget, Children are no longer egocentric when entering :
 - (a) Sensori motor stage
 - (b) Pre operational stage
 - (c) Formal operational stage
 - (d) Concrete operational stage
54. The three major aspects of moral development are :
 - (a) Stimulus, Response and Consequences
 - (b) Thoughts, Behaviours and Feelings
 - (c) Individual, Family and Society
 - (d) Id, Ego and Super ego
55. What language should the teacher use while teaching Scheduled Tribe Students so as to meet their Language Problems ?
 - (a) Pupil's Spoken Language
 - (b) Standard Language
 - (c) Book Language
 - (d) Both book and spoken language
56. Which of the following is not associated with constructivism ?
 - (a) Knowledge is constructed
 - (b) Learning is an active process
 - (c) Teacher plays pivotal role
 - (d) Learning is a social activity
57. Which of the following is not associated with conditions of Learning ?
 - (a) Motivation
 - (b) Readiness
 - (c) Learning Experiences
 - (d) Evaluation Strategy
58. Radio belongs to which type of Teaching Aid ?
 - (a) Audio Aids
 - (b) Visual Aids
 - (c) Audio-Visual Aids
 - (d) Activity Aids
59. In a classroom situation while using context of Learner the teacher has to do;
 - (a) Context Analysis
 - (b) Learner Analysis
 - (c) Both A and B
 - (d) Instructional Analysis
60. Which of the following does not belong to principles of Democratic Management ?
 - (a) Principle of freedom
 - (b) Principle of equality
 - (c) Principle of Centralization
 - (d) Principle of Leadership

61. School Management Committee is constituted on the basis of :
- Kothari Commission (1964-66)
 - National Policy on Education 1986
 - Right to free and Compulsory Education Act 2009
 - Secondary Education Commission (1952-53)
62. 'Management is what Manager does' belongs to which concept of Management ?
- Functional
 - Human Relations
 - Leadership
 - Decision Making
63. Which age group of children will be covered under foundational stage as per NPE 2020.
- 8-11 years
 - 3-8 years
 - 11-14 years
 - 14-19 years
64. When RTE Act was implemented in India ?
- 4th August 2009
 - 3rd July 2010
 - 4th June 2009
 - 1st April 2010
65. Samagra Shiksha is meant for which group of children ?
- Preschool to Class-12
 - Class one to Class-8
 - Class one to Class-12
 - Preschool to college education
66. Evaluation is a systematic process of collecting and analyzing data in order to make :
- Prediction
 - Judgement
 - Decisions
 - Results
67. Recurring difficulties in Learning are identified in :
- Summative Evaluation
 - Diagnostic Evaluation
 - Formative Evaluation
 - None of the above
68. The quality testing in education is only possible by using :
- Achievement Test
 - Intelligence Test
 - Standardised Achievement Test
 - Aptitude Test
69. Blue Print is used in preparing the question paper because :
- Questions become easy and simple
 - Different type of questions find place
 - Subjectivity in evaluation is reduced
 - The evaluation becomes easy and error free
70. Continuous and Comprehensive Evaluation mainly aims at :
- Holistic development
 - Scholastic development
 - Cognitive development
 - Conative development

71. Which one of the following is the duration of N. E. Monsoon in India ?
 (a) From March to Mid June
 (b) From Mid June to September
 (c) Months of October and November
 (d) From December to end of February
72. The Captain of a ship recorded the time as 7.00 hours G.M.T. when the sun was exactly overhead. Where was the ship stationed ?
 (a) India (b) Pakistan
 (c) Myanmar (d) Bangladesh
73. Which of the following ocean currents can be distinguished from the other three on the basis of its direction of movement ?
 (a) Humboldt Current
 (b) Falkland Current
 (c) Benguela Current
 (d) West Australian Current
74. What type of landform is formed due to faulting ?
 (a) Young fold mountain
 (b) Horst mountain
 (c) Upward folding
 (d) Downward folding
75. Which of the following types of unemployment is noticed in the developing countries ?
 (a) Technical (b) Frictional
 (c) Seasonal (d) Institutional
76. Which tax was collected from merchants and traders at ports or selling points during the reign of Harshavardhana ?
 (a) Bali (b) Hiranya
 (c) Tulameya (d) Bhaga
77. Which architectural monument was built during the reign of Jahangir ?
 (a) Tomb of Shaikh Salim Chisti
 (b) Jahangiri Mahal
 (c) Itimad-ud-daula's tomb
 (d) Imtiaz Mahal
78. Who can attend the sessions of Lok Sabha and Rajya Sabha without voting right while not being a member of either house ?
 (a) Vice President of India
 (b) Attorney General of India
 (c) Comptroller and Auditor General of India
 (d) Solicitor General of India
79. Who declares the result after counting of votes of an election in a constituency ?
 (a) Chief Election Commissioner
 (b) State Election Commissioner
 (c) Chief Election Officer of the State concerned
 (d) Returning Officer of the Constituency concerned
80. Which organ of the United Nations adopted the Universal declaration of Human Rights ?
 (a) Security Council
 (b) General Assembly
 (c) Trusteeship Council
 (d) International Court of Justice

Read the passage carefully and complete the following statements by choosing the correct options given below: (Question 81-85)

One of the most important problems facing the country today is the rapid increase in population. In the last 25 years the population of the world has doubled. As the developing world has a population growth which is twice that of the developed world, most of the population increase has taken place in the poorer countries of the world. The main point to be made here is that more and more people are concentrated in those countries which are least able to provide a living for them.

What is responsible for this population rise is not an increase in fertility, but a sharp decline in the death rate in the developing countries. In the absence of birth control, the maximum birth rate is around 4%. For a population to remain static in these circumstances, the death rate would have to be the same. Improving food supplies can reduce the death rate to 3%. Better public health and medical care can cut the death rate by further 2%. The resultant population growth of 3% will double the population every 25 years.

The main reason for the reduction in the death rate in the developing world has been improved public health measures. For example, in Sri Lanka the death rate was halved over 10 years by spraying the mosquitoes which carry malaria. Why is it so easy to cut the death rate in this way and yet so hard to reduce the birth rate? One answer is that the public health measures can be very cheap. Anti-malaria spraying is inexpensive. But this is not the important point.

For birth control programmes to be successful a change in attitude is required whereas death control can be achieved autonomously. In other words, the death rate can be cut without anything else changing.

- | | |
|--|--|
| 81. In the last 25 years the world population has _____ | (c) Rich countries have twice the growth rate as the poor. |
| (a) doubled | (d) Developing countries have twice the growth rate as the rich. |
| (b) increased rapidly | |
| (c) grown by 3% | |
| (d) not changed | 83. Factor that is most responsible for growth rate is _____ |
| 82. Which of the following is true according to the passage? | (a) increase in fertility rate |
| (a) Poor and rich countries have the same rate of growth. | (b) lack of birth control measures |
| (b) Rich countries have a greater growth than the poor. | (c) decrease in death rate |
| | (d) none of the above |

84. The best way to arrest population growth is _____
- (a) to create public awareness
 - (b) to create public health facilities
 - (c) not to meddle with the death rate
 - (d) keep the death rate the same as the birth rate
85. Controlling death rate is easy because _____
- (a) it involves a change in the attitude.
 - (b) it can be done autonomously
 - (c) everything else changes with it
 - (d) people like it
86. Who wrote "Things fall apart; the center cannot hold; mere anarchy is loosed upon the world"?
- (a) T. S. Eliot
 - (b) Shakespeare
 - (c) Wordsworth
 - (d) W. B. Yeats
87. Which among the following is not a poetic form?
- (a) Dramatic monologue
 - (b) Ballad
 - (c) Fable
 - (d) Sonnet

Pick out the most effective pair of words from the given pair of words to make the sentence(s) meaningfully complete: (Question 88-89)

88. He has sense of words. Therefore, the sentences he constructs are always with rich meaning.
- (a) Profound.....pregnant
 - (b) Distinguish.....loaded
 - (c) Terrific.....tempted
 - (d) Outstanding.....consistent
89. If you're an introvert, you to prefer working alone and if possible, will towards projects where you can work by yourself or with as few people as possible.
- (a) Like.....Depart
 - (b) Express.....Attract
 - (c) Tend.....Gravitate
 - (d) Advocate.....move

Choose the correct alternative that best expresses the meaning of the phrase in the given sentence:

90. The manager **turned a deaf ear** to the demands of the employees.
- (a) Ignored
 - (b) Misrepresented
 - (c) Agreed to listen
 - (d) Immediately agreed

91. ଓଡ଼ିଶାର ରାଜ୍ୟ ସଙ୍ଗୀତ ‘ବନ୍ଦେ ଉତ୍କଳ ଜନନୀ’ର କବି କିଏ ?
 (a) ଲକ୍ଷ୍ମୀକାନ୍ତ ତ୍ରିପାଠୀ
 (b) ଲକ୍ଷ୍ମୀକାନ୍ତ ମହାପାତ୍ର
 (c) ଲକ୍ଷ୍ମୀବନ୍ତ ମହାପାତ୍ର
 (d) ଲକ୍ଷ୍ମୀନାରାୟଣ ତ୍ରିପାଠୀ
92. କେଉଁଟି ସାରଳା ଦାସଙ୍କ ଦ୍ଵାରା ରଚିତ କାବ୍ୟ / କବିତା ନୁହେଁ ?
 (a) ମହାଭାରତ
 (b) ଚଣ୍ଡୀପୁରାଣ
 (c) ବିଚିତ୍ର ରାମାୟଣ
 (d) ଉତ୍କଳଲକ୍ଷ୍ମୀ
93. ‘ଅପହଞ୍ଚ’ ଉପନ୍ୟାସର ଔପନ୍ୟାସିକ କିଏ ?
 (a) ରବି ପଟ୍ଟନାୟକ
 (b) ପ୍ରତିଭା ରାୟ
 (c) ଗୋପୀନାଥ ମହାନ୍ତି
 (d) ସୁରେନ୍ଦ୍ର ମହାନ୍ତି
94. ଗୋଟିଏ ଶୁଦ୍ଧ ବାକ୍ୟରେ କେଉଁ କେଉଁ ଲକ୍ଷଣ ଥିବା ଜରୁରୀ ଅଟେ ?
 (a) କର୍ତ୍ତା, କର୍ମ, କ୍ରିୟା
 (b) ଯୋଗ୍ୟତା, ଆକାଂକ୍ଷା, ଆସତ୍ତି
 (c) ଧ୍ଵନି, ବର୍ଣ୍ଣ, ଅକ୍ଷର
 (d) ବଚନ, କାରକ, ପୁରୁଷ
95. “ମନୋଜ ଶ୍ରେଣୀରେ ବସିଲା, ମାତ୍ର ପଢ଼ିପାରିଲା ନାହିଁ।” ଏହା କେଉଁ ପ୍ରକାର ବାକ୍ୟ ?
 (a) ସରଳ (b) ଯୌଗିକ
 (c) ଜଟିଳ (d) ମିଶ୍ର
96. ନିମ୍ନ ବାକ୍ୟରେ କେତୋଟି ଅଶୁଦ୍ଧ ଅଛି ଦର୍ଶାଅ :
 “ଦ୍ଵାପର ଜୁଗରେ ବିଷ୍ଣୁ, କୃଷ୍ଣ ରୂପରେ ଜନ୍ମ ନେଇଥିଲେ”
 (a) ୪ (b) ୩
 (c) ୨ (d) ୧
97. କେଉଁଟି ଠିକ୍ ଶବ୍ଦରୂପ ?
 (a) ଶୁଶୁଷା (b) ଶୁଶୁସା
 (c) ଶୁସୁଷା (d) ଶୁଶୁର୍ଷା
98. ‘ଅକଳ ଗୁଡୁମ’ ରୁଡ଼ିର ଅର୍ଥ କ’ଣ ?
 (a) ବାଟବଣା
 (b) ଦିଗହରା
 (c) ଅଜ୍ଞାନ
 (d) ବୁଦ୍ଧିବଶା ହେବା
99. ପ୍ରକୃତ ବସ୍ତୁରେ ଅପ୍ରକୃତ ବସ୍ତୁର ତର୍କଣା କରାଗଲେ କେଉଁ ଅଲଙ୍କାର ହୁଏ ?
 (a) ରୂପକ (b) ଉପମା
 (c) ଉତ୍ପ୍ରେକ୍ଷା (d) ବ୍ୟତିରେକ
100. ‘ଗୁଞ୍ଜରୀ’ ରାଗର ପ୍ରତିପାଦର ଅକ୍ଷର ସଂଖ୍ୟା କେତେ ?
 (a) ନଅ (b) ବାର
 (c) ଚଉଦ (d) ଅଠର

ROUGH WORK

TEACHERS RECRUITMENT TEST-2022

HINDI

**ST & SC DEVELOPMENT, MINORITIES & BACKWARD
CLASSES WELFARE DEPARTMENT
GOVERNMENT OF ODISHA
BHUBANESWAR**

<i>Time</i>	:	90 Minutes
<i>Full Marks</i>	:	100*
<i>No. of Questions</i>	:	100
<i>No. of Pages</i>	:	16

INSTRUCTIONS

Read the following instructions carefully before answering in the OMR Sheet.

1. Write the answers in OMR sheet.
2. Verify that the Question Booklet contains 16 pages. If any discrepancy is there, report to the invigilator immediately and ask for change of questions booklet.
3. Start answering when you are told to do so. Do not turn the pages before that.
4. Answer all the questions. Each question has four probable answers of which one is correct. You have to choose the correct answer and darken the bubble with the Black or Blue ball point pen.
5. *Each question will carry 1 mark each and there will be negative marking @0.25 mark for wrong answer.
6. Return the Answer Sheet only to the invigilator as soon as the final bell rings.

1. Who was the first 'Padma Bibhusana' awardee from Odisha ?
 (a) Sudarshan Sahoo
 (b) Raghunath Panigrahi
 (c) Kelucharan Mohapatra
 (d) Raghunath Mohapatra
2. Which is the main venue of the iconic parade for celebration of the country's republic day at New Delhi ?
 (a) Red Fort
 (b) Rastrapati Bhavan Lawns
 (c) Raj Ghat
 (d) Raj Path
3. Where was the Summer Olympic, 2020 held ?
 (a) Beijing (b) Tokyo
 (c) New Delhi (d) Athens
4. When was India's first organised armed rebellion called 'Paika Bidroha' against British rule held ?
 (a) 1817 (b) 1837
 (c) 1857 (d) 1917
5. Who was the first President of Indian National Congress ?
 (a) Dr. Rajendra Prasad
 (b) A. O. Hume
 (c) Umesh Chandra Banerjee
 (d) Lord Mountbatten
6. 'Dandi Manch' is otherwise called :
 (a) Quit India Movement
 (b) Noncooperating Movement
 (c) Khilafat Movement
 (d) Salt Satyagraha
7. Which is the northern most state of India?
 (a) Himachal Pradesh
 (b) Uttarakhand
 (c) Jammu & Kashmir
 (d) Punjab
8. Where is the Thar desert located ?
 (a) Rajasthan
 (b) Gujarat
 (c) Uttar Pradesh
 (d) Maharastra
9. Which is the largest island in Antartica?
 (a) King George Island
 (b) Alexander Island
 (c) Livingstone Island
 (d) Ross Island
10. GST was introduced as the _____ amendment act ?
 (a) 92 (b) 99
 (c) 101 (d) 110
11. How many members of Odisha represent in Rajya Sabha ?
 (a) 31 (b) 21
 (c) 15 (d) 10

12. Who is now the National Security adviser to the Government of India ?
 (a) M. K. Narayan
 (b) Shivashankar Menon
 (c) Ajit K. Doval
 (d) J. J. Dixit
13. What is meant by Central Vista Project ?
 (a) National Highway
 (b) Metro Railways
 (c) New Parliament Building
 (d) New Satellite Project
14. Who is now the Governor of Reserve Bank of India ?
 (a) Vithal Acharya
 (b) Shashikanta Das
 (c) Urjit Patel
 (d) Raghuram Rajan
15. When ₹500/- and ₹1000/- currency notes were recently demonetised to curb black money ?
 (a) 12th January 1946
 (b) 16th January 1978
 (c) 8th November 2016
 (d) 31st December 2020
16. Which one is not Crypto currency ?
 (a) Bitcoin (b) Monero
 (c) Litecoin (d) INR
17. What was the major achievement of our failed moon mission Chandrayaan-2 ?
 (a) Existence of water and ice on moon
 (b) Existence of air on moon
 (c) Existence of life on moon
 (d) Determination of origin of moon
18. Which is the smallest visual element on a video monitor ?
 (a) Character (b) Pixel
 (c) Byte (d) Bit
19. Which is the indigenously developed COVID-19 Vaccine of India ?
 (a) Covishield (b) Sputnik
 (c) Covaxin (d) Astrazenaca
20. Which vitamin is water soluble ?
 (a) Vitamin - C (b) Vitamin - D
 (c) Vitamin - E (d) Vitamin - K
21. In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?
 (a) MFEDJJOE (b) MFEJDJOE
 (c) EOJDJEFM (d) EOJDEJFM
22. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?
 (a) Grandfather (b) Daughter
 (c) Grandmother (d) Granddaughter

23. In a certain code language,
 '134' means 'good and tasty'
 '478' means 'see good pictures'
 '729' means 'pictures are faint'.

Which of the following digits stands for 'see'?

- (a) 8 (b) 9
 (c) 4 (d) 7

24. If A stands for '×', B stands for '-',
 C stands for '+' what is the value of
 (9 C 5) A (6 B 6) =?

- (a) 0 (b) 168
 (c) 162 (d) None of these

25. Statement: There has been an
 unprecedented increase in the number
 of successful candidates in this year's
 School Leaving Certificate Examination.

Courses of Action:

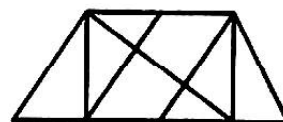
- I. The government should make
 arrangements to increase number
 of seats of intermediate courses
 in existing colleges.
 II. The government should take
 active steps to open new colleges
 to accommodate all these
 successful candidates.

- (a) Only I follows
 (b) Only II follows
 (c) Either I or II follows
 (d) Neither I nor II follows

26. The day before yesterday was
 Saturday. What day will it be the day
 after tomorrow?

- (a) Tuesday (b) Wednesday
 (c) Thursday (d) Friday

27. Find the number of triangles in the
 given figure.



- (a) 8 (b) 10
 (c) 12 (d) 14

28. Your college has organized a blood
 donation camp. You

- (a) persuade your friends to donate
 (b) donate your blood at the camp
 (c) do not believe in donating blood
 and decide not to attend
 (d) yourself do not believe in donating
 blood but ask other to do so

29. You are handling a time-bound project.
 During the project review meeting, you
 find that the project is likely to get
 delayed due to lack of cooperation of
 the team members. You would...

- (a) Warn the team members for their
 non-cooperation
 (b) Look into reasons for non-
 cooperation
 (c) Ask for the replacement of team
 members
 (d) Ask for an extension of time citing
 reasons

30. You are competing with your batch-mate for the prestigious award to be decided based on an oral presentation. You have been asked by the committee to finish on time. Your friend, however, is allowed more than the stipulated time period.

- (a) Lodge a complaint to chairperson against the discrimination
- (b) Not listen to any justification from the committee
- (c) Ask for withdrawal of your name
- (d) Protest and leave the place

31. Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is:

- (a) 28 (b) 33
- (c) 55 (d) 64

32. The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is:

- (a) 20 (b) 19
- (c) 23 (d) None of these

33. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:

- (a) 276 (b) 322
- (c) 276 (d) 385

34. A watch when sold for Rs. 400 fetches 25 percent profit, what would be the percentage profit/loss if 6 such watches are sold for Rs. 2112?

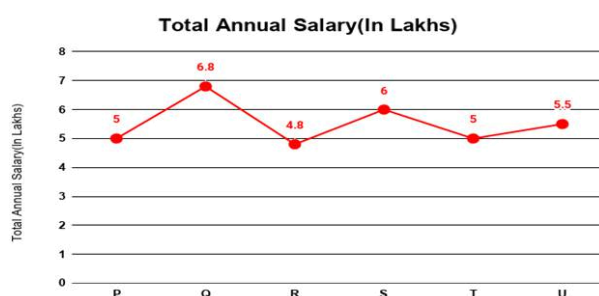
- (a) 10% loss (b) 10% profit
- (c) 5% loss (d) 5% profit

35. A person takes a loan of Rs. 2500 at 4% simple interest. He returns Rs.1500 at the end of 1 year. What amount he would pay to clear his dues at the end of 2 years?

- (a) Rs. 1140 (b) Rs. 1150
- (c) Rs. 1100 (d) Rs. 1050

Directions : (36-40) Read the following graph carefully and answer the question given below.

Line graph given below shows the total annual salary (in lakhs) of six different persons P, Q, R, S, T and U in 2021.



36. If the total annual salary of P is increased by 1 lakhs and the total annual salary of Q is decreased by 0.8 lakh then what is the percent increase or decrease in P's salary with respect to Q's salary?

- (a) 10% (b) 5%
- (c) 1% (d) None of these

37. What is the ratio of total annual salary of P and T to the total annual salary of S and R?
- (a) 27:25 (b) 25:27
(c) 5:9 (d) 9:5
38. What is the percent increase in the total annual salary of U with respect to the total annual salary of T?
- (a) 5% (b) 10%
(c) 5.5% (d) 10.5%
39. Which of the following pairs have same total annual salary?
- (a) PT (b) ST
(c) PS (d) QR
40. What is the average of total annual salary of P, R, S and T (in lakhs) in 2021?
- (a) 5 Lakhs (b) 4.8 Lakhs
(c) 5.2 Lakhs (d) 5.4 Lakhs
41. ICT stands for _____.
- (a) Information and Communication Technology
(b) Information and Communication Terminology
(c) Information and Common Technology
(d) Information to Communication Technology
42. The use of computer in education started in the year
- (a) 1970 (b) 1980
(c) 1990 (d) 2000
43. 1KB = _____ bytes.
- (a) 64 (b) 128
(c) 1024 (d) 2048
44. Which of the following is not computer hardware?
- (a) RAM (b) Keyboard
(c) MS Paint (d) Monitor
45. _____ act as an interface between the user and the computer.
- (a) Operating System
(b) Ms Excel
(c) Impress
(d) Digital Documentation
46. A device which can be connected to a network without using cable is called
- (a) Distributed device
(b) Centralized device
(c) Open-source device
(d) Wireless device
47. What is internet?
- (a) a single network
(b) a vast collection of different networks
(c) interconnection of local area networks
(d) interconnection of wide area networks

48. Which of the following is the most viral section of the internet?
- (a) Chat Messenger
 - (b) Social networking sites
 - (c) Tutorial sites
 - (d) Chat-rooms
49. Many social media sites and services provide _____ for legitimate account verification.
- (a) Retina scanning
 - (b) Fingerprint scanning
 - (c) Captcha
 - (d) 2-step verification
50. Which of the following is the best definition of a good digital citizen?
- (a) Someone who recognizes that there are rights and responsibilities associated with using the internet and other information technology
 - (b) Someone who participates actively and often in social media
 - (c) Someone who limits the amount of time they spend on the internet
 - (d) Someone who is good at using computers or mobile devices
51. Transmission of genetic characteristic from parents to offspring is called :
- (a) Learning
 - (b) Maturation
 - (c) Heredity
 - (d) None of the above
52. Which of the following affects the development of self concept of the adolescents ?
- (a) Success
 - (b) Failure
 - (c) Acceptance
 - (d) Achievement
53. According to Jean Piaget, Children are no longer egocentric when entering :
- (a) Sensori motor stage
 - (b) Pre operational stage
 - (c) Formal operational stage
 - (d) Concrete operational stage
54. The three major aspects of moral development are :
- (a) Stimulus, Response and Consequences
 - (b) Thoughts, Behaviours and Feelings
 - (c) Individual, Family and Society
 - (d) Id, Ego and Super ego

55. What language should the teacher use while teaching Scheduled Tribe Students so as to meet their Language Problems ?
- Pupil's Spoken Language
 - Standard Language
 - Book Language
 - Both book and spoken language
56. Which of the following is not associated with constructivism ?
- Knowledge is constructed
 - Learning is an active process
 - Teacher plays pivotal role
 - Learning is a social activity
57. Which of the following is not associated with conditions of Learning ?
- Motivation
 - Readiness
 - Learning Experiences
 - Evaluation Strategy
58. Radio belongs to which type of Teaching Aid ?
- Audio Aids
 - Visual Aids
 - Audio-Visual Aids
 - Activity Aids
59. In a classroom situation while using context of Learner the teacher has to do;
- Context Analysis
 - Learner Analysis
 - Both A and B
 - Instructional Analysis
60. Which of the following does not belong to principles of Democratic Management ?
- Principle of freedom
 - Principle of equality
 - Principle of Centralization
 - Principle of Leadership
61. School Management Committee is constituted on the basis of :
- Kothari Commission (1964-66)
 - National Policy on Education 1986
 - Right to free and Compulsory Education Act 2009
 - Secondary Education Commission (1952-53)
62. 'Management is what Manager does' belongs to which concept of Management ?
- Functional
 - Human Relations
 - Leadership
 - Decision Making

63. Which age group of children will be covered under foundational stage as per NPE 2020.
- (a) 8-11 years
 - (b) 3-8 years
 - (c) 11-14 years
 - (d) 14-19 years
64. When RTE Act was implemented in India ?
- (a) 4th August 2009
 - (b) 3rd July 2010
 - (c) 4th June 2009
 - (d) 1st April 2010
65. Samagra Shiksha is meant for which group of children ?
- (a) Preschool to Class-12
 - (b) Class one to Class-8
 - (c) Class one to Class-12
 - (d) Preschool to college education
66. Evaluation is a systematic process of collecting and analyzing data in order to make :
- (a) Prediction
 - (b) Judgement
 - (c) Decisions
 - (d) Results
67. Recurring difficulties in Learning are identified in :
- (a) Summative Evaluation
 - (b) Diagnostic Evaluation
 - (c) Formative Evaluation
 - (d) None of the above
68. The quality testing in education is only possible by using :
- (a) Achievement Test
 - (b) Intelligence Test
 - (c) Standardised Achievement Test
 - (d) Aptitude Test
69. Blue Print is used in preparing the question paper because :
- (a) Questions become easy and simple
 - (b) Different type of questions find place
 - (c) Subjectivity in evaluation is reduced
 - (d) The evaluation becomes easy and error free
70. Continuous and Comprehensive Evaluation mainly aims at :
- (a) Holistic development
 - (b) Scholastic development
 - (c) Cognitive development
 - (d) Conative development

71. भारतवर्ष को 'महामानव समुद्र' किसने कहा है ?
 (a) हजारी प्रसाद द्विवेदी ने
 (b) रवीन्द्रनाथ ठाकुर ने
 (c) महात्मा गांधी ने
 (d) महात्मा बुद्ध ने
72. अशोक-वृक्ष की पूजा किसकी देन है ?
 (a) आर्यों की
 (b) द्राविड़ों की
 (c) आदिवासियों की
 (d) गन्धर्वों और यक्षों की
73. पिता समरकान्त पुत्र अमरकान्त के किस कार्य के विरोधी थे ?
 (a) पढ़नेके
 (b) चरखा कातनेके
 (c) सलीम से दोस्ती करनेके
 (d) खदी पहननेके
74. अमरकान्त की पत्नी सुखदा का स्वभाव कैसा है ?
 (a) पति के अनुकूल
 (b) पति से भिन्न है
 (c) पति से उदासीन
 (d) पति से खिन्न रहती है ?
75. बंटी के पापा अजय किस शहर में रहते थे ?
 (a) कलकत्ता में (b) मद्रास में
 (c) मुम्बई में (d) कानपुर में
76. 'आपका बंटी' उपन्यास में किसका तनाव दिखाया गया है ?
 (a) पति-पत्नी का (b) माँ का
 (c) फूफी का (d) उपर्युक्त सभी का
77. 'ज्ञान तर्क की कोई चीज नहीं है, अनुभव की चीज है' - यह कथन किसका है ?
 (a) कुमार गिरि का (b) चित्रलेखा का
 (c) बीजगुप्त का (d) मृत्युञ्जय का
78. "संसार में पाप कुछ भी नहीं है, वह केवल मनुष्य के दृष्टिकोण की विषमता का दूसरा नाम है" - यह उक्ति किसकी है ?
 (a) बीजगुप्त की (b) कुमार गिरि की
 (c) रत्नाम्बर की (d) श्वेतांक की
79. मधूलिका किसकी कन्या थी ?
 (a) कोशल नरेश की (b) अरुण की
 (c) सेनापति की (d) सिंहमित्र की
80. अरुण किस राज्य का राजकुमार था ?
 (a) कोशल का (b) वैशाली का
 (c) मगध का (d) पाटलीपुत्र का
81. कौन कहता था कि "साध्वी ! तेरी प्रार्थना से भगवान् ने अनेक संकटों से मेरी रक्षा की है" ?
 (a) बुद्धगुप्त (b) चंपा
 (c) चंपा की माँ (d) चंपा के पिता
82. कितने साल पहले घीसू ठाकुर की बारात में गया था ?
 (a) पाँच साल (b) दस साल
 (c) बीस साल (d) पच्चीस साल
83. 'आतंक से विवेक कुण्ठित होता है' - यह उक्ति किसकी है ?
 (a) सुनन्दा की
 (b) कालिन्दीचरण की
 (c) कालिन्दीचरण के मित्रों की
 (d) कहानीकार की
84. सहना को रुपये देने जाते हुए एक-एक पग के साथ हल्कू का मस्तक किससे दबा जा रहा था ?
 (a) लज्जा से
 (b) पीड़ा से
 (c) अपनी दीनता से
 (d) अपनी दीनता के भार से

85. कितने साल की नौकरी के बाद गजाधर बाबू रिटायर होकर घर जा रह थे ?
 (a) पच्चीस (b) तीस
 (c) पैतीस (d) चालीस
86. “युद्ध देखना चाहो तो मेरा हृदय फाड़कर देखो” - यह वाक्य चन्द्रगुप्त ने किससे कहा था ?
 (a) कार्नेलिया से (b) अलका से
 (c) मालविका से (d) कल्याणी से
87. ‘महत्वाकांक्षा का मोती निष्ठुरता की सीपी में रहता है’ -यह कथन किसका है ?
 (a) चन्द्रगुप्त का (b) चाणक्य का
 (c) सिंहरण का (d) मालविका का
88. ‘आषाढ़ का एक दिन’ नाटक में कौन - सा रस है ?
 (a) विप्रलंभ शृंगार (b) संयोग शृंगार
 (c) रूप शृंगार (d) भाव शृंगार
89. “शब्द और अर्थ राजपुरुषों की संपत्ति है, जानकर आश्चर्य हुआ” - यह उक्ति किसकी है ?
 (a) दन्तुल की (b) मातुल की
 (c) विलोम की (d) कालिदास की
90. “रजिया जब बहनों को चूड़ियाँ पिन्हाती है, कितने भाई देखनेको वहाँ एकत्र हो जाते हैं” - इसका क्या कारण है ?
 (a) बहनों के प्रति भातृत्व-भाव
 (b) रजिया के प्रति एक अज्ञात आकर्षण
 (c) रजिया के प्रति प्रेम भाव
 (d) इनमें से कोई नहीं
91. अष्टावक्र लगभग डेढ़ रुपये बिक्री का सामान ले जाकर हमेशा कितने आनेके पैसे लेकर लौटता था ?
 (a) चार आनेके (b) दस आनेके
 (c) बारह आनेके (d) सोलह आनेके
92. ‘जल में कुम्भ’ साखी में कवि की कौन - सी विचारधारा है ?
 (a) द्वैतवादी (b) अद्वैतवादी
 (c) निर्गुणवादी (d) सगुणवादी
93. शलभ को दीपक की ज्वाला में किस कारण से सुख मिलता है ?
 (a) जल मरनेमें (b) प्रेम करनेमें
 (c) दुःख देनेमें (d) घृणा करनेमें
94. नायिका किसका आनन्द लेने के लिए कृष्ण की मुरली छिपा देती है ?
 (a) प्रेम का (b) आनन्द का
 (c) भागने का (d) बातों का
95. राजकुमार सिद्धार्थ की माँ का नाम क्या था ?
 (a) माया देवी (b) राधा देवी
 (c) महाप्रजावती (d) इनमें से कोई नहीं
96. ‘ताज’ कविता में कवि की कौन-सी चेतना है ?
 (a) प्रेमवादी (b) प्रयोगवादी
 (c) छायावादी (d) मानववादी
97. किसके कन्धे पर बाँह डाले संध्यासुन्दरी आसमान से उतरती है ?
 (a) चंचलता के (b) कोमलता के
 (c) नीरवता के (d) अलसता के
98. संधि कहा जाता है -
 (a) शब्दों के मेल को (b) वर्णों के मेल को
 (c) अर्थों के मेल को (d) वाक्यों के मेल को
99. वाक्य में कर्त्ता के साथ किस स्थिति में ‘ने’ चिह्न का प्रयोग होता है ?
 (a) संयुक्त क्रिया में
 (b) द्विकर्मक क्रिया में
 (c) अकर्मक क्रिया और भूतकाल में
 (d) सकर्मक क्रिया और भूतकाल में
100. उपसर्ग के प्रयोग से किसके अर्थ में बलपूर्वक अंतर लाया जाता है ?
 (a) धातु के (b) क्रिया के
 (c) शब्द के (d) कर्म के

ROUGH WORK

ROUGH WORK

TEACHERS RECRUITMENT TEST-2022

SANSKRIT

**ST & SC DEVELOPMENT, MINORITIES & BACKWARD
CLASSES WELFARE DEPARTMENT**

**GOVERNMENT OF ODISHA
BHUBANESWAR**

<i>Time</i>	:	90 Minutes
<i>Full Marks</i>	:	100*
<i>No. of Questions</i>	:	100
<i>No. of Pages</i>	:	16

INSTRUCTIONS

Read the following instructions carefully before answering in the OMR Sheet.

1. Write the answers in OMR sheet.
2. Verify that the Question Booklet contains 16 pages. If any discrepancy is there, report to the invigilator immediately and ask for change of questions booklet.
3. Start answering when you are told to do so. Do not turn the pages before that.
4. Answer all the questions. Each question has four probable answers of which one is correct. You have to choose the correct answer and darken the bubble with the Black or Blue ball point pen.
5. *Each question will carry 1 mark each and there will be negative marking @0.25 mark for wrong answer.
6. Return the Answer Sheet only to the invigilator as soon as the final bell rings.

1. Who was the first 'Padma Bibhusana' awardee from Odisha ?
 (a) Sudarshan Sahoo
 (b) Raghunath Panigrahi
 (c) Kelucharan Mohapatra
 (d) Raghunath Mohapatra
2. Which is the main venue of the iconic parade for celebration of the country's republic day at New Delhi ?
 (a) Red Fort
 (b) Rastrapati Bhavan Lawns
 (c) Raj Ghat
 (d) Raj Path
3. Where was the Summer Olympic, 2020 held ?
 (a) Beijing (b) Tokyo
 (c) New Delhi (d) Athens
4. When was India's first organised armed rebellion called 'Paika Bidroha' against British rule held ?
 (a) 1817 (b) 1837
 (c) 1857 (d) 1917
5. Who was the first President of Indian National Congress ?
 (a) Dr. Rajendra Prasad
 (b) A. O. Hume
 (c) Umesh Chandra Banerjee
 (d) Lord Mountbatten
6. 'Dandi Manch' is otherwise called :
 (a) Quit India Movement
 (b) Noncooperating Movement
 (c) Khilafat Movement
 (d) Salt Satyagraha
7. Which is the northern most state of India?
 (a) Himachal Pradesh
 (b) Uttarakhand
 (c) Jammu & Kashmir
 (d) Punjab
8. Where is the Thar desert located ?
 (a) Rajasthan
 (b) Gujarat
 (c) Uttar Pradesh
 (d) Maharastra
9. Which is the largest island in Antartica?
 (a) King George Island
 (b) Alexander Island
 (c) Livingstone Island
 (d) Ross Island
10. GST was introduced as the _____ amendment act ?
 (a) 92 (b) 99
 (c) 101 (d) 110
11. How many members of Odisha represent in Rajya Sabha ?
 (a) 31 (b) 21
 (c) 15 (d) 10

12. Who is now the National Security adviser to the Government of India ?
 (a) M. K. Narayan
 (b) Shivashankar Menon
 (c) Ajit K. Doval
 (d) J. J. Dixit
13. What is meant by Central Vista Project ?
 (a) National Highway
 (b) Metro Railways
 (c) New Parliament Building
 (d) New Satellite Project
14. Who is now the Governor of Reserve Bank of India ?
 (a) Vithal Acharya
 (b) Shashikanta Das
 (c) Urjit Patel
 (d) Raghuram Rajan
15. When ₹500/- and ₹1000/- currency notes were recently demonetised to curb black money ?
 (a) 12th January 1946
 (b) 16th January 1978
 (c) 8th November 2016
 (d) 31st December 2020
16. Which one is not Crypto currency ?
 (a) Bitcoin (b) Monero
 (c) Litecoin (d) INR
17. What was the major achievement of our failed moon mission Chandrayaan-2 ?
 (a) Existence of water and ice on moon
 (b) Existence of air on moon
 (c) Existence of life on moon
 (d) Determination of origin of moon
18. Which is the smallest visual element on a video monitor ?
 (a) Character (b) Pixel
 (c) Byte (d) Bit
19. Which is the indigenously developed COVID-19 Vaccine of India ?
 (a) Covishield (b) Sputnik
 (c) Covaxin (d) Astrazenaca
20. Which vitamin is water soluble ?
 (a) Vitamin - C (b) Vitamin - D
 (c) Vitamin - E (d) Vitamin - K
21. In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?
 (a) MFEDJJOE (b) MFEJDJOE
 (c) EOJDJEFM (d) EOJDEJFM
22. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?
 (a) Grandfather (b) Daughter
 (c) Grandmother (d) Granddaughter

23. In a certain code language,
 '134' means 'good and tasty'
 '478' means 'see good pictures'
 '729' means 'pictures are faint'.

Which of the following digits stands for 'see'?

- (a) 8 (b) 9
 (c) 4 (d) 7

24. If A stands for '×', B stands for '-',
 C stands for '+' what is the value of
 (9 C 5) A (6 B 6) =?

- (a) 0 (b) 168
 (c) 162 (d) None of these

25. Statement: There has been an
 unprecedented increase in the number
 of successful candidates in this year's
 School Leaving Certificate Examination.

Courses of Action:

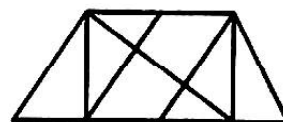
- I. The government should make
 arrangements to increase number
 of seats of intermediate courses
 in existing colleges.
 II. The government should take
 active steps to open new colleges
 to accommodate all these
 successful candidates.

- (a) Only I follows
 (b) Only II follows
 (c) Either I or II follows
 (d) Neither I nor II follows

26. The day before yesterday was
 Saturday. What day will it be the day
 after tomorrow?

- (a) Tuesday (b) Wednesday
 (c) Thursday (d) Friday

27. Find the number of triangles in the
 given figure.



- (a) 8 (b) 10
 (c) 12 (d) 14

28. Your college has organized a blood
 donation camp. You

- (a) persuade your friends to donate
 (b) donate your blood at the camp
 (c) do not believe in donating blood
 and decide not to attend
 (d) yourself do not believe in donating
 blood but ask other to do so

29. You are handling a time-bound project.
 During the project review meeting, you
 find that the project is likely to get
 delayed due to lack of cooperation of
 the team members. You would...

- (a) Warn the team members for their
 non-cooperation
 (b) Look into reasons for non-
 cooperation
 (c) Ask for the replacement of team
 members
 (d) Ask for an extension of time citing
 reasons

30. You are competing with your batch-mate for the prestigious award to be decided based on an oral presentation. You have been asked by the committee to finish on time. Your friend, however, is allowed more than the stipulated time period.

- (a) Lodge a complaint to chairperson against the discrimination
- (b) Not listen to any justification from the committee
- (c) Ask for withdrawal of your name
- (d) Protest and leave the place

31. Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is:

- (a) 28 (b) 33
- (c) 55 (d) 64

32. The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is:

- (a) 20 (b) 19
- (c) 23 (d) None of these

33. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:

- (a) 276 (b) 322
- (c) 276 (d) 385

34. A watch when sold for Rs. 400 fetches 25 percent profit, what would be the percentage profit/loss if 6 such watches are sold for Rs. 2112?

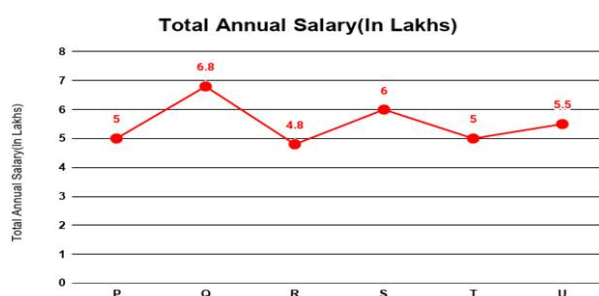
- (a) 10% loss (b) 10% profit
- (c) 5% loss (d) 5% profit

35. A person takes a loan of Rs. 2500 at 4% simple interest. He returns Rs.1500 at the end of 1 year. What amount he would pay to clear his dues at the end of 2 years?

- (a) Rs. 1140 (b) Rs. 1150
- (c) Rs. 1100 (d) Rs. 1050

Directions : (36-40) Read the following graph carefully and answer the question given below.

Line graph given below shows the total annual salary (in lakhs) of six different persons P, Q, R, S, T and U in 2021.



36. If the total annual salary of P is increased by 1 lakhs and the total annual salary of Q is decreased by 0.8 lakh then what is the percent increase or decrease in P's salary with respect to Q's salary?

- (a) 10% (b) 5%
- (c) 1% (d) None of these

37. What is the ratio of total annual salary of P and T to the total annual salary of S and R?
- (a) 27:25 (b) 25:27
(c) 5:9 (d) 9:5
38. What is the percent increase in the total annual salary of U with respect to the total annual salary of T?
- (a) 5% (b) 10%
(c) 5.5% (d) 10.5%
39. Which of the following pairs have same total annual salary?
- (a) PT (b) ST
(c) PS (d) QR
40. What is the average of total annual salary of P, R, S and T (in lakhs) in 2021?
- (a) 5 Lakhs (b) 4.8 Lakhs
(c) 5.2 Lakhs (d) 5.4 Lakhs
41. ICT stands for _____.
- (a) Information and Communication Technology
(b) Information and Communication Terminology
(c) Information and Common Technology
(d) Information to Communication Technology
42. The use of computer in education started in the year
- (a) 1970 (b) 1980
(c) 1990 (d) 2000
43. 1KB = _____ bytes.
- (a) 64 (b) 128
(c) 1024 (d) 2048
44. Which of the following is not computer hardware?
- (a) RAM (b) Keyboard
(c) MS Paint (d) Monitor
45. _____ act as an interface between the user and the computer.
- (a) Operating System
(b) Ms Excel
(c) Impress
(d) Digital Documentation
46. A device which can be connected to a network without using cable is called
- (a) Distributed device
(b) Centralized device
(c) Open-source device
(d) Wireless device
47. What is internet?
- (a) a single network
(b) a vast collection of different networks
(c) interconnection of local area networks
(d) interconnection of wide area networks

48. Which of the following is the most viral section of the internet?
- (a) Chat Messenger
 - (b) Social networking sites
 - (c) Tutorial sites
 - (d) Chat-rooms
49. Many social media sites and services provide _____ for legitimate account verification.
- (a) Retina scanning
 - (b) Fingerprint scanning
 - (c) Captcha
 - (d) 2-step verification
50. Which of the following is the best definition of a good digital citizen?
- (a) Someone who recognizes that there are rights and responsibilities associated with using the internet and other information technology
 - (b) Someone who participates actively and often in social media
 - (c) Someone who limits the amount of time they spend on the internet
 - (d) Someone who is good at using computers or mobile devices
51. Transmission of genetic characteristic from parents to offspring is called :
- (a) Learning
 - (b) Maturation
 - (c) Heredity
 - (d) None of the above
52. Which of the following affects the development of self concept of the adolescents ?
- (a) Success
 - (b) Failure
 - (c) Acceptance
 - (d) Achievement
53. According to Jean Piaget, Children are no longer egocentric when entering :
- (a) Sensori motor stage
 - (b) Pre operational stage
 - (c) Formal operational stage
 - (d) Concrete operational stage
54. The three major aspects of moral development are :
- (a) Stimulus, Response and Consequences
 - (b) Thoughts, Behaviours and Feelings
 - (c) Individual, Family and Society
 - (d) Id, Ego and Super ego

55. What language should the teacher use while teaching Scheduled Tribe Students so as to meet their Language Problems ?
- Pupil's Spoken Language
 - Standard Language
 - Book Language
 - Both book and spoken language
56. Which of the following is not associated with constructivism ?
- Knowledge is constructed
 - Learning is an active process
 - Teacher plays pivotal role
 - Learning is a social activity
57. Which of the following is not associated with conditions of Learning ?
- Motivation
 - Readiness
 - Learning Experiences
 - Evaluation Strategy
58. Radio belongs to which type of Teaching Aid ?
- Audio Aids
 - Visual Aids
 - Audio-Visual Aids
 - Activity Aids
59. In a classroom situation while using context of Learner the teacher has to do;
- Context Analysis
 - Learner Analysis
 - Both A and B
 - Instructional Analysis
60. Which of the following does not belong to principles of Democratic Management ?
- Principle of freedom
 - Principle of equality
 - Principle of Centralization
 - Principle of Leadership
61. School Management Committee is constituted on the basis of :
- Kothari Commission (1964-66)
 - National Policy on Education 1986
 - Right to free and Compulsory Education Act 2009
 - Secondary Education Commission (1952-53)
62. 'Management is what Manager does' belongs to which concept of Management ?
- Functional
 - Human Relations
 - Leadership
 - Decision Making

63. Which age group of children will be covered under foundational stage as per NPE 2020.
- (a) 8-11 years
 - (b) 3-8 years
 - (c) 11-14 years
 - (d) 14-19 years
64. When RTE Act was implemented in India ?
- (a) 4th August 2009
 - (b) 3rd July 2010
 - (c) 4th June 2009
 - (d) 1st April 2010
65. Samagra Shiksha is meant for which group of children ?
- (a) Preschool to Class-12
 - (b) Class one to Class-8
 - (c) Class one to Class-12
 - (d) Preschool to college education
66. Evaluation is a systematic process of collecting and analyzing data in order to make :
- (a) Prediction
 - (b) Judgement
 - (c) Decisions
 - (d) Results
67. Recurring difficulties in Learning are identified in :
- (a) Summative Evaluation
 - (b) Diagnostic Evaluation
 - (c) Formative Evaluation
 - (d) None of the above
68. The quality testing in education is only possible by using :
- (a) Achievement Test
 - (b) Intelligence Test
 - (c) Standardised Achievement Test
 - (d) Aptitude Test
69. Blue Print is used in preparing the question paper because :
- (a) Questions become easy and simple
 - (b) Different type of questions find place
 - (c) Subjectivity in evaluation is reduced
 - (d) The evaluation becomes easy and error free
70. Continuous and Comprehensive Evaluation mainly aims at :
- (a) Holistic development
 - (b) Scholastic development
 - (c) Cognitive development
 - (d) Conative development

71. माध्यमिकस्तरे संस्कृतं प्रति रुच्युत्पादनार्थं निम्नलिखितेषु कस्य उपायस्य उपयोगिता वर्तते ?
 (a) अभिनयस्य
 (b) हास्यकणिकायाः
 (c) सस्वरश्लोकावृत्तेः
 (d) समस्यापूर्तेः
72. संस्कृतवातावरणनिर्माणे किं प्रधानकारकं भवति ?
 (a) पाठ्यक्रमः
 (b) अध्यापकाः
 (c) कक्षाप्रकोष्ठः
 (d) संस्कृतस्य व्यवहारः
73. एतेषु किं भाषायाः कौशलं न भवति ?
 (a) श्रवणम् (b) पठनम्
 (c) चिन्तनम् (d) लेखनम्
74. एतेषु किं संस्कृतशिक्षणस्य प्रमुखमुद्देश्यमस्ति ?
 (a) संस्कृतसाहित्यज्ञानम्
 (b) नागरीलिपिज्ञानम्
 (c) व्याकरणाभ्यासः
 (d) भाषाकौशलानामभ्यासः
75. अधोलिखितेषु किं श्रवणकौशलस्य साधनं न ?
 (a) आकाशवाणी (b) दूरवाणी
 (c) ध्वनिमुद्रणयन्त्रम् (d) पुस्तकम्
76. एतेषु कः प्राथमिकस्तरे पद्यशिक्षणस्य विधित्वेन न स्वीक्रियते ?
 (a) गीतविधिः (b) अभिनयविधिः
 (c) भाषानुवादविधिः (d) व्याख्यानविधिः
77. व्याकरणानुवादविधेः कः प्रवर्तकः ?
 (a) मोहनदासः
 (b) रामकृष्णगोपालभण्डारकरः
 (c) पाणिनिः
 (d) मम्मटः
78. एतेषु कः शिक्षणस्य सर्वप्राचीनविधिः ?
 (a) परीक्षणविधिः (b) आगमनविधिः
 (c) व्याख्याविधिः (d) प्रत्यक्षविधिः
79. भाषाध्ययनार्थम् अन्तिमः प्रयत्नः कस्मिन् रूपे भवति ?
 (a) भाषणरूपे (b) लेखनरूपे
 (c) श्रवणरूपे (d) वाचनरूपे
80. माध्यमिकस्तरे पद्यस्यान्वयः केन विधिना करणीयः ?
 (a) दण्डान्वयविधिना
 (b) खण्डान्वयविधिना
 (c) व्याख्याविधिना
 (d) योजनाविधिना
81. छात्रेषु काव्यसर्जनयोग्यतायाः विकासार्थं कस्यात्यन्तमुपयोगिता वर्तते ?
 (a) अन्त्याक्षरी (b) गानम्
 (c) भाषात्मकक्रीडा (d) समस्यापूर्तिः
82. सस्वरपठनस्य किं प्रयोजनम् ?
 (a) भावग्रहणम्
 (b) शुद्धोच्चारणम्
 (c) काठिन्यनिवारणम्
 (d) प्रश्नानां समाधानम्
83. गद्यशिक्षणस्य अङ्गानि कति ?
 (a) द्वे (b) त्रीणि
 (c) चत्वारि (d) पञ्च
84. संस्कृतसाहित्ये रूपकस्य कति भेदाः वर्तन्ते ?
 (a) ८ (b) ९
 (c) १० (d) १५
85. अभिज्ञानशाकुन्तलस्य नान्दीश्लोके कस्यावाहनं कृतम् ?
 (a) विष्णोः (b) ईशस्य
 (c) ब्रह्मणः (d) गणेशस्य

86. मातृशब्दस्य द्वितीयाबहुवचने किं रूपम् ?
 (a) मातरम् (b) मातृः
 (c) मातरौ (d) मातृन्
87. सर्व (स्त्रीलिङ्गे) षष्ठी-बहुवचने किं रूपम् ?
 (a) सर्वासाम् (b) सर्वाभ्याम्
 (c) सर्वस्याः (d) सर्वयोः
88. महाराजशब्दस्य स्त्रीलिङ्गे किं रूपम् ?
 (a) महाराजी (b) महीयसी
 (c) महाराज्ञी (d) महाराणी
89. चतुर् + सु - अत्र निष्पन्नं पदं किम् ?
 (a) चतुर्षु (b) चतृसु
 (c) चतसृषु (d) चतृषु
90. गीतगोविन्दकाव्ये कति सर्गाः विद्यन्ते ?
 (a) १० (b) १२
 (c) १५ (d) १६
91. “मदालसाचम्पूः” इत्यस्य कः रचयिता ?
 (a) हरिश्चन्द्रः (b) भोजराजः
 (c) सोमप्रभसूरि (d) त्रिविक्रमभट्टः
92. “मृच्छकटिकम्” कीदृशं रूपकम् ?
 (a) नाटकम् (b) प्रकरणम्
 (c) प्रहसनम् (d) वीथि
93. निम्नलिखितेषु किं बाणेन विरचितम् ?
 (a) हर्षचरितम्
 (b) बृहत्कथा
 (c) दशकुमारचरितम्
 (d) वासवदत्ता

94. प्रतिमानाटकस्य कः कर्ता ?
 (a) शूद्रकः (b) भट्टनारायणः
 (c) भवभूतिः (d) भासः
95. द्वौ + इव - इत्यस्य सन्धिरूपं किम् ?
 (a) द्वाविव (b) द्विरिव
 (c) द्वौविव (d) द्विइव
96. अभिज्ञानशाकुन्तलनाटके विदूषकस्य नाम किम् ?
 (a) माधव्यः (b) वसन्तकः
 (c) मातलिः (d) शारद्वतः
97. मेघदूतस्य प्रथमश्लोके “भर्तुः” शब्देन कः सूचितः ?
 (a) शिवः (b) कुबेरः
 (c) हेममाली (d) दक्षः
98. “रामगिर्याश्रमेषु” - अत्र कथं सप्तमी ?
 (a) भावे (b) अधिकरणे
 (c) निमित्तात् (d) निद्वारणे
99. “स्वाधिकारात् प्रमत्तः” - अत्र अधिकारशब्दस्य कोऽर्थः ?
 (a) कर्तव्यम् (b) अतिभारः
 (c) प्रेमभावः (d) मूढभावः
100. पाणिनीयव्याकरणे “नदी” संज्ञया किं बुद्ध्यते ?
 (a) आदेशः (b) गङ्गा
 (c) प्रत्ययाः (d) यू स्याख्यौ

ROUGH WORK

ROUGH WORK

TEACHERS RECRUITMENT TEST-2022

PET

**ST & SC DEVELOPMENT, MINORITIES & BACKWARD
CLASSES WELFARE DEPARTMENT**

**GOVERNMENT OF ODISHA
BHUBANESWAR**

<i>Time</i>	:	90 Minutes
<i>Full Marks</i>	:	100*
<i>No. of Questions</i>	:	100
<i>No. of Pages</i>	:	16

INSTRUCTIONS

Read the following instructions carefully before answering in the OMR Sheet.

1. Write the answers in OMR sheet.
2. Verify that the Question Booklet contains 16 pages. If any discrepancy is there, report to the invigilator immediately and ask for change of questions booklet.
3. Start answering when you are told to do so. Do not turn the pages before that.
4. Answer all the questions. Each question has four probable answers of which one is correct. You have to choose the correct answer and darken the bubble with the Black or Blue ball point pen.
5. *Each question will carry 1 mark each and there will be negative marking @0.25 mark for wrong answer.
6. Return the Answer Sheet only to the invigilator as soon as the final bell rings.

1. Who was the first 'Padma Bibhusana' awardee from Odisha ?
 (a) Sudarshan Sahoo
 (b) Raghunath Panigrahi
 (c) Kelucharan Mohapatra
 (d) Raghunath Mohapatra
2. Which is the main venue of the iconic parade for celebration of the country's republic day at New Delhi ?
 (a) Red Fort
 (b) Rastrapati Bhavan Lawns
 (c) Raj Ghat
 (d) Raj Path
3. Where was the Summer Olympic, 2020 held ?
 (a) Beijing (b) Tokyo
 (c) New Delhi (d) Athens
4. When was India's first organised armed rebellion called 'Paika Bidroha' against British rule held ?
 (a) 1817 (b) 1837
 (c) 1857 (d) 1917
5. Who was the first President of Indian National Congress ?
 (a) Dr. Rajendra Prasad
 (b) A. O. Hume
 (c) Umesh Chandra Banerjee
 (d) Lord Mountbatten
6. 'Dandi Manch' is otherwise called :
 (a) Quit India Movement
 (b) Noncooperating Movement
 (c) Khilafat Movement
 (d) Salt Satyagraha
7. Which is the northern most state of India?
 (a) Himachal Pradesh
 (b) Uttarakhand
 (c) Jammu & Kashmir
 (d) Punjab
8. Where is the Thar desert located ?
 (a) Rajasthan
 (b) Gujarat
 (c) Uttar Pradesh
 (d) Maharastra
9. Which is the largest island in Antartica?
 (a) King George Island
 (b) Alexander Island
 (c) Livingstone Island
 (d) Ross Island
10. GST was introduced as the _____ amendment act ?
 (a) 92 (b) 99
 (c) 101 (d) 110
11. How many members of Odisha represent in Rajya Sabha ?
 (a) 31 (b) 21
 (c) 15 (d) 10

12. Who is now the National Security adviser to the Government of India ?
 (a) M. K. Narayan
 (b) Shivashankar Menon
 (c) Ajit K. Doval
 (d) J. J. Dixit
13. What is meant by Central Vista Project ?
 (a) National Highway
 (b) Metro Railways
 (c) New Parliament Building
 (d) New Satellite Project
14. Who is now the Governor of Reserve Bank of India ?
 (a) Vithal Acharya
 (b) Shashikanta Das
 (c) Urjit Patel
 (d) Raghuram Rajan
15. When ₹500/- and ₹1000/- currency notes were recently demonetised to curb black money ?
 (a) 12th January 1946
 (b) 16th January 1978
 (c) 8th November 2016
 (d) 31st December 2020
16. Which one is not Crypto currency ?
 (a) Bitcoin (b) Monero
 (c) Litecoin (d) INR
17. What was the major achievement of our failed moon mission Chandrayaan-2 ?
 (a) Existence of water and ice on moon
 (b) Existence of air on moon
 (c) Existence of life on moon
 (d) Determination of origin of moon
18. Which is the smallest visual element on a video monitor ?
 (a) Character (b) Pixel
 (c) Byte (d) Bit
19. Which is the indigenously developed COVID-19 Vaccine of India ?
 (a) Covishield (b) Sputnik
 (c) Covaxin (d) Astrazenaca
20. Which vitamin is water soluble ?
 (a) Vitamin - C (b) Vitamin - D
 (c) Vitamin - E (d) Vitamin - K
21. In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language?
 (a) MFEDJJOE (b) MFEJDJOE
 (c) EOJDJEFM (d) EOJDEJFM
22. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?
 (a) Grandfather (b) Daughter
 (c) Grandmother (d) Granddaughter

23. In a certain code language,
 '134' means 'good and tasty'
 '478' means 'see good pictures'
 '729' means 'pictures are faint'.

Which of the following digits stands for 'see'?

- (a) 8 (b) 9
 (c) 4 (d) 7

24. If A stands for '×', B stands for '-',
 C stands for '+' what is the value of
 (9 C 5) A (6 B 6) =?

- (a) 0 (b) 168
 (c) 162 (d) None of these

25. Statement: There has been an
 unprecedented increase in the number
 of successful candidates in this year's
 School Leaving Certificate Examination.

Courses of Action:

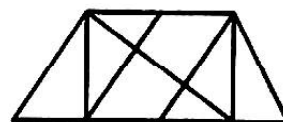
- I. The government should make
 arrangements to increase number
 of seats of intermediate courses
 in existing colleges.
 II. The government should take
 active steps to open new colleges
 to accommodate all these
 successful candidates.

- (a) Only I follows
 (b) Only II follows
 (c) Either I or II follows
 (d) Neither I nor II follows

26. The day before yesterday was
 Saturday. What day will it be the day
 after tomorrow?

- (a) Tuesday (b) Wednesday
 (c) Thursday (d) Friday

27. Find the number of triangles in the
 given figure.



- (a) 8 (b) 10
 (c) 12 (d) 14

28. Your college has organized a blood
 donation camp. You

- (a) persuade your friends to donate
 (b) donate your blood at the camp
 (c) do not believe in donating blood
 and decide not to attend
 (d) yourself do not believe in donating
 blood but ask other to do so

29. You are handling a time-bound project.
 During the project review meeting, you
 find that the project is likely to get
 delayed due to lack of cooperation of
 the team members. You would...

- (a) Warn the team members for their
 non-cooperation
 (b) Look into reasons for non-
 cooperation
 (c) Ask for the replacement of team
 members
 (d) Ask for an extension of time citing
 reasons

30. You are competing with your batch-mate for the prestigious award to be decided based on an oral presentation. You have been asked by the committee to finish on time. Your friend, however, is allowed more than the stipulated time period.

- (a) Lodge a complaint to chairperson against the discrimination
- (b) Not listen to any justification from the committee
- (c) Ask for withdrawal of your name
- (d) Protest and leave the place

31. Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is:

- (a) 28 (b) 33
- (c) 55 (d) 64

32. The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is:

- (a) 20 (b) 19
- (c) 23 (d) None of these

33. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:

- (a) 276 (b) 322
- (c) 276 (d) 385

34. A watch when sold for Rs. 400 fetches 25 percent profit, what would be the percentage profit/loss if 6 such watches are sold for Rs. 2112?

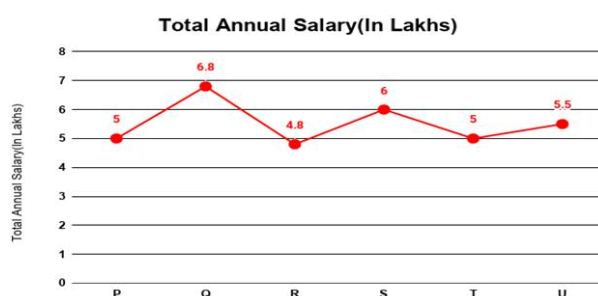
- (a) 10% loss (b) 10% profit
- (c) 5% loss (d) 5% profit

35. A person takes a loan of Rs. 2500 at 4% simple interest. He returns Rs.1500 at the end of 1 year. What amount he would pay to clear his dues at the end of 2 years?

- (a) Rs. 1140 (b) Rs. 1150
- (c) Rs. 1100 (d) Rs. 1050

Directions : (36-40) Read the following graph carefully and answer the question given below.

Line graph given below shows the total annual salary (in lakhs) of six different persons P, Q, R, S, T and U in 2021.



36. If the total annual salary of P is increased by 1 lakhs and the total annual salary of Q is decreased by 0.8 lakh then what is the percent increase or decrease in P's salary with respect to Q's salary?

- (a) 10% (b) 5%
- (c) 1% (d) None of these

37. What is the ratio of total annual salary of P and T to the total annual salary of S and R?
- (a) 27:25 (b) 25:27
(c) 5:9 (d) 9:5
38. What is the percent increase in the total annual salary of U with respect to the total annual salary of T?
- (a) 5% (b) 10%
(c) 5.5% (d) 10.5%
39. Which of the following pairs have same total annual salary?
- (a) PT (b) ST
(c) PS (d) QR
40. What is the average of total annual salary of P, R, S and T (in lakhs) in 2021?
- (a) 5 Lakhs (b) 4.8 Lakhs
(c) 5.2 Lakhs (d) 5.4 Lakhs
41. ICT stands for _____.
- (a) Information and Communication Technology
(b) Information and Communication Terminology
(c) Information and Common Technology
(d) Information to Communication Technology
42. The use of computer in education started in the year
- (a) 1970 (b) 1980
(c) 1990 (d) 2000
43. 1KB = _____ bytes.
- (a) 64 (b) 128
(c) 1024 (d) 2048
44. Which of the following is not computer hardware?
- (a) RAM (b) Keyboard
(c) MS Paint (d) Monitor
45. _____ act as an interface between the user and the computer.
- (a) Operating System
(b) Ms Excel
(c) Impress
(d) Digital Documentation
46. A device which can be connected to a network without using cable is called
- (a) Distributed device
(b) Centralized device
(c) Open-source device
(d) Wireless device
47. What is internet?
- (a) a single network
(b) a vast collection of different networks
(c) interconnection of local area networks
(d) interconnection of wide area networks

48. Which of the following is the most viral section of the internet?
- (a) Chat Messenger
 - (b) Social networking sites
 - (c) Tutorial sites
 - (d) Chat-rooms
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 - Book Language
 - Both book and spoken language
56. Which of the following is not associated with constructivism ?
- Knowledge is constructed
 - Learning is an active process
 - Teacher plays pivotal role
 - Learning is a social activity
57. Which of the following is not associated with conditions of Learning ?
- Motivation
 - Readiness
 - Learning Experiences
 - Evaluation Strategy
58. Radio belongs to which type of Teaching Aid ?
- Audio Aids
 - Visual Aids
 - Audio-Visual Aids
 - Activity Aids
59. In a classroom situation while using context of Learner the teacher has to do;
- Context Analysis
 - Learner Analysis
 - Both A and B
 - Instructional Analysis
60. Which of the following does not belong to principles of Democratic Management ?
- Principle of freedom
 - Principle of equality
 - Principle of Centralization
 - Principle of Leadership
61. School Management Committee is constituted on the basis of :
- Kothari Commission (1964-66)
 - National Policy on Education 1986
 - Right to free and Compulsory Education Act 2009
 - Secondary Education Commission (1952-53)
62. 'Management is what Manager does' belongs to which concept of Management ?
- Functional
 - Human Relations
 - Leadership
 - Decision Making

63. Which age group of children will be covered under foundational stage as per NPE 2020.
- (a) 8-11 years
 - (b) 3-8 years
 - (c) 11-14 years
 - (d) 14-19 years
64. When RTE Act was implemented in India ?
- (a) 4th August 2009
 - (b) 3rd July 2010
 - (c) 4th June 2009
 - (d) 1st April 2010
65. Samagra Shiksha is meant for which group of children ?
- (a) Preschool to Class-12
 - (b) Class one to Class-8
 - (c) Class one to Class-12
 - (d) Preschool to college education
66. Evaluation is a systematic process of collecting and analyzing data in order to make :
- (a) Prediction
 - (b) Judgement
 - (c) Decisions
 - (d) Results
67. Recurring difficulties in Learning are identified in :
- (a) Summative Evaluation
 - (b) Diagnostic Evaluation
 - (c) Formative Evaluation
 - (d) None of the above
68. The quality testing in education is only possible by using :
- (a) Achievement Test
 - (b) Intelligence Test
 - (c) Standardised Achievement Test
 - (d) Aptitude Test
69. Blue Print is used in preparing the question paper because :
- (a) Questions become easy and simple
 - (b) Different type of questions find place
 - (c) Subjectivity in evaluation is reduced
 - (d) The evaluation becomes easy and error free
70. Continuous and Comprehensive Evaluation mainly aims at :
- (a) Holistic development
 - (b) Scholastic development
 - (c) Cognitive development
 - (d) Conative development

71. First step of Budget preparation is :
 (a) To search income
 (b) Estimate Expenditure
 (c) Planning
 (d) Facilities and personnel
72. Administration and organization of Physical Education should be based on the principles of :
 (a) Activity (b) Bio-mechanics
 (c) Humanity (d) Teaching
73. Scoliosis is a postural deformity related with :
 (a) foot
 (b) leg
 (c) vertebral column
 (d) hand
74. Which one of the following is not a components of Health Related fitness?
 (a) Body Composition
 (b) Speed
 (c) Flexibility
 (d) Cardiovascular endurance
75. Which one of the following concepts reflects the true nature of Modern Physical Education?
 (a) Physical training
 (b) Science of Movement
 (c) Movement Education
 (d) Athleticism
76. Riboflavin is the scientific name of which vitamin?
 (a) Vitamin A (b) Vitamin B₁₂
 (c) Vitamin B₂ (d) Vitamin B₁
77. The most suitable class formation for teaching shot put is a :
 (a) Circle (b) Triangle
 (c) Semicircle (d) Square
78. In which Olympic did women participate for the first time :
 (a) 1896 Athens
 (b) 1900 Paris
 (c) 1920 Antwerp
 (d) 1928 Amsterdam
79. In the school setting the major channel of publicity for the physical education programme is :
 (a) Teachers (b) Students
 (c) Advertisement (d) Intramurals
80. In which kind of strength the player uses the strength of his muscles regularly, but it is not visible ?
 (a) Isometric strength
 (b) Isotonic strength
 (c) Explosive Strength
 (d) Dynamic strength
81. Circuit training is an effective method for developing :
 (a) Speed
 (b) Flexibility
 (c) Strength endurance
 (d) Agility
82. Which muscle in the body is called "throwers muscle" ?
 (a) Quadriceps
 (b) Hamstrings
 (c) Rectus abdominus
 (d) Pectoralis major

83. What is the range of healthy body mass index?
- (a) 20-25 (b) 25-30
(c) 18.5-24.9 (d) 30.0-34.9
84. 'Super compensation' means :
- (a) Fatigue
(b) Second wind
(c) Adaptation to load
(d) Oxygen debt.
85. The final event in 'Decathlon' is always:
- (a) Javelin throw
(b) 1500 meter race
(c) 110 meter hurdles
(d) 800 meter race
86. Which principle of sports training refers to general motor skills and fitness development?
- (a) Principle of overload
(b) Principle of individuality
(c) Principle of specificity
(d) Principle of periodization
87. The 'trial and error' theory of learning was propounded by :
- (a) Newton (b) Pavlov
(c) Thorndike (d) Homer
88. In the childhood, individual's behaviour is mostly influenced by :
- (a) Community (b) School
(c) Peer group (d) Family
89. At the time of release of discus :
- (a) Centripetal force is more than centrifugal force
(b) Centrifugal force is more than Centripetal force
(c) Centrifugal force and Centripetal forces becomes zero
(d) None of the above
90. Who was the founder of the modern Olympics ?
- (a) Phidias
(b) Alexander
(c) Pierre de Coubertin
(d) L. Aemilius Cato
91. Curriculum construction in physical education depends upon :
- (a) Nature, needs and characteristics of individuals
(b) Aim and objectives of physical education
(c) Facilities, time available and financial sources
(d) All of the above
92. Regarding leadership, which statement is false?
- (a) Leadership does not necessarily take place within a hierarchical structure of an organisation
(b) When people operate as leaders their role is always clearly established and defined
(c) Not every leader is a manager
(d) All of the above

93. During oxygen (O_2) debt, the lactic acid ($C_3H_6O_3$) is removed from :
 (a) Liver (b) Muscles
 (c) Lungs (d) Mucus
94. Fast twitch muscle fibres are of which colour ?
 (a) white colour (b) red colour
 (c) blue colour (d) skin colour
95. According to the German Concept of Physical Education, the Mother of all Games and Sports is :
 (a) Swimming (b) Gymnastic
 (c) Athletics (d) Combative
96. The total number of officials required for a kho-kho match is :
 (a) 4 (b) 5
 (c) 6 (d) 7
97. Acceleration of an object will increase as the net force increases depending on its :
 (a) Density (b) Mass
 (c) Shape (d) Volume
98. In a single knockout tournament, how many byes need to be given if 17 teams are participating?
 (a) 17 (b) 16
 (c) 15 (d) 14
99. When there were no regular physical activity classes allotted to them, the physical training teachers in the school were made to discharge such duties as:
 (a) Maintain discipline in the school
 (b) Do public relation
 (c) Organize sports after school hours
 (d) Give lessons in health education
 (e) Look after sports facilities
- Codes :
 (a) b,c,d (b) a,c,e
 (c) b,d,e (d) c,d,e
100. Which of the following systems of the body is the focal point in movement?
 (a) Circulatory system
 (b) Nervous system
 (c) Respiratory system
 (d) Muscular system

ROUGH WORK

TEACHERS RECRUITMENT TEST-2022

I.A. CT / I.Sc. CT

**ST & SC DEVELOPMENT, MINORITIES & BACKWARD
CLASSES WELFARE DEPARTMENT**

**GOVERNMENT OF ODISHA
BHUBANESWAR**

<i>Time</i>	:	90 Minutes
<i>Full Marks</i>	:	100*
<i>No. of Questions</i>	:	100
<i>No. of Pages</i>	:	16

INSTRUCTIONS

Read the following instructions carefully before answering in the OMR Sheet.

1. Write the answers in OMR sheet.
2. Verify that the Question Booklet contains 16 pages. If any discrepancy is there, report to the invigilator immediately and ask for change of questions booklet.
3. Start answering when you are told to do so. Do not turn the pages before that.
4. Answer all the questions. Each question has four probable answers of which one is correct. You have to choose the correct answer and darken the bubble with the Black or Blue ball point pen.
5. *Each question will carry 1 mark each and there will be negative marking @0.25 mark for wrong answer.
6. Return the Answer Sheet only to the invigilator as soon as the final bell rings.

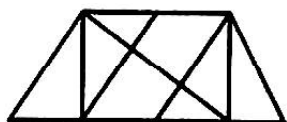
1. Which temple is called the 'Black Pagoda' ?
(a) Lingaraj (b) Konark
(c) Jagannath (d) Brahmeswar
2. Where is Indian Institute of Management located in Odisha ?
(a) Cuttack (b) Bhubaneswar
(c) Sambalpur (d) Berhampur
3. Who is the present Vice-President of USA ?
(a) Mike Pence (b) Joe Biden
(c) Dick Cheney (d) Kamla Harris
4. Which country has reported the highest number of deaths due to the pandemic COVID-19 ?
(a) USA (b) India
(c) Brazil (d) U. K.
5. Who was the Mughal emperor to build Taj Mahal ?
(a) Babar (b) Shah Jahana
(c) Akbar (d) Jahangir
6. In which century was the Puri Jagannath temple build ?
(a) 12th (b) 10th
(c) 18th (d) 19th
7. Who is the longest serving chief minister in India ?
(a) Jyoti Basu
(b) Naveen Patnaik
(c) Pawan Kumar Chamling
(d) Gegong Apang
8. Where is WHO located ?
(a) New York (b) Paris
(c) Stockholm (d) Geneva
9. What is the U K Currency called ?
(a) Dollar (b) INR
(c) Pound (d) Peso
10. Which type of electric light bulbs are the most efficient ?
(a) Incandescent (b) Halogen
(c) CFL (d) LED
11. Who was the first 'Padma Bibhusana' awardee from Odisha ?
(a) Sudarshan Sahoo
(b) Raghunath Panigrahi
(c) Kelucharan Mohapatra
(d) Raghunath Mohapatra
12. When was India's first organised armed rebellion called 'Paika Bidroha' against British rule held ?
(a) 1817 (b) 1837
(c) 1857 (d) 1917
13. Who was the first President of Indian National Congress ?
(a) Dr. Rajendra Prasad
(b) A. O. Hume
(c) Umesh Chandra Banerjee
(d) Lord Mountbatten
14. Which is the northern most state of India?
(a) Himachal Pradesh
(b) Uttarakhand
(c) Jammu & Kashmir
(d) Punjab
15. Where is the Thar desert located ?
(a) Rajasthan (b) Gujarat
(c) Uttar Pradesh (d) Maharastra

16. Which is the largest island in Antarctica?
 (a) King George Island
 (b) Alexander Island
 (c) Livingstone Island
 (d) Ross Island
17. Who is now the National Security adviser to the Government of India ?
 (a) M. K. Narayan
 (b) Shivashankar Menon
 (c) Ajit K. Doval
 (d) J. J. Dixit
18. Who is now the Governor of Reserve Bank of India ?
 (a) Vithal Acharya
 (b) Shashikanta Das
 (c) Urjit Patel
 (d) Raghuram Rajan
19. Which is the indigenously developed COVID-19 Vaccine of India ?
 (a) Covishield (b) Sputnik
 (c) Covaxin (d) Moderna
20. Which vitamin is water soluble ?
 (a) Vitamin - C (b) Vitamin - D
 (c) Vitamin - E (d) Vitamin - K
21. In a certain code language COMPUTER is written as RFUVQNPC. How will MEDICINE be written in that code language
 (a) MFEDJJOE (b) MFEJDJOE
 (c) EOJDJEFM (d) EOJDEJFM
22. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?
 (a) Grandfather (b) Daughter
 (c) Grandmother (d) Granddaughter
23. In a certain code language,
 '134' means 'good and tasty'
 '478' means 'see good pictures'
 '729' means 'pictures are faint'.
 Which of the following digits stands for 'see'?
- (a) 8 (b) 9
 (c) 4 (d) 7
24. If A stands for '×', B stands for '-', C stands for '+' what is the value of (9 C 5) A (6 B 6) =?
 (a) 0 (b) 168
 (c) 162 (d) None of these
25. Statement: There has been an unprecedented increase in the number of successful candidates in this year's School Leaving Certificate Examination.
 Courses of Action:
- I. The government should make arrangements to increase number of seats of intermediate courses in existing colleges.
 II. The government should take active steps to open new colleges to accommodate all these successful candidates.
- (a) Only I follows
 (b) Only II follows
 (c) Either I or II follows
 (d) Neither I nor II follows

26. The day before yesterday was Saturday. What day will it be the day after tomorrow?

- (a) Tuesday (b) Wednesday
(c) Thursday (d) Friday

27. Find the number of triangles in the given figure.



- (a) 8 (b) 10
(c) 12 (d) 14

28. Your college has organized a blood donation camp. You

- (a) persuade your friends to donate
(b) donate your blood at the camp
(c) do not believe in donating blood and decide not to attend
(d) yourself do not believe in donating blood but ask other to do so

29. You are handling a time-bound project. During the project review meeting, you find that the project is likely to get delayed due to lack of cooperation of the team members. You would...

- (a) Warn the team members for their non-cooperation
(b) Look into reasons for non-cooperation
(c) Ask for the replacement of team members
(d) Ask for an extension of time citing reasons

30. You are competing with your batch-mate for the prestigious award to be decided based on an oral presentation. You have been asked by the committee to finish on time. Your friend, however, is allowed more than the stipulated time period.

- (a) Lodge a complaint to chairperson against the discrimination
(b) Not listen to any justification from the committee
(c) Ask for withdrawal of your name
(d) Protest and leave the place

31. Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is:

- (a) 28 (b) 33
(c) 55 (d) 64

32. The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is:

- (a) 20 (b) 19
(c) 23 (d) None of these

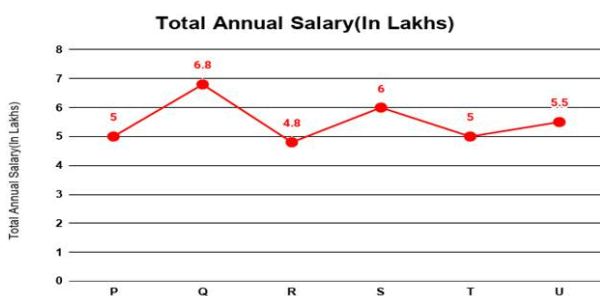
33. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:

- (a) 276 (b) 322
(c) 276 (d) 385

34. A watch when sold for Rs. 400 fetches 25 percent profit, what would be the percentage profit/loss if 6 such watches are sold for Rs. 2112?
 (a) 10% loss (b) 10% profit
 (c) 5% loss (d) 5% profit
35. A person takes a loan of Rs. 2500 at 4% simple interest. He returns Rs.1500 at the end of 1 year. What amount he would pay to clear his dues at the end of 2 years?
 (a) Rs. 1140 (b) Rs. 1150
 (c) Rs. 1100 (d) Rs. 1050

Directions : (36-40) Read the following graph carefully and answer the question given below.

Line graph given below shows the total annual salary (in lakhs) of six different persons P, Q, R, S, T and U in 2021.



36. If the total annual salary of P is increased by 1 lakhs and the total annual salary of Q is decreased by 0.8 lakh then what is the percent increase or decrease in P's salary with respect to Q's salary?
 (a) 10% (b) 5%
 (c) 1% (d) None of these
37. What is the ratio of total annual salary of P and T to the total annual salary of S and R?
 (a) 27:25 (b) 25:27
 (c) 5:9 (d) 9:5
38. What is the percent increase in the total annual salary of U with respect to the total annual salary of T?
 (a) 5% (b) 10%
 (c) 5.5% (d) 10.5%
39. Which of the following pairs have same total annual salary?
 (a) PT (b) ST
 (c) PS (d) QR
40. What is the average of total annual salary of P, R, S and T (in lakhs) in 2021?
 (a) 5 Lakhs (b) 4.8 Lakhs
 (c) 5.2 Lakhs (d) 5.4 Lakhs
41. The Purpose of ICT use in education is to
 (a) Attract students
 (b) Make teaching interesting
 (c) Promote technology culture in education
 (d) Optimize learning outcomes
42. Computer is a/an _____ device
 (a) Electrical (b) Electronics
 (c) Mechanical (d) All of these
43. Which of the following is/are hardware of computer?
 (a) Keyboard (b) Monitor
 (c) Printer (d) All of these

44. Super computer developed by Indian scientists.
- (a) Blue Gene
 - (b) Param
 - (c) Super 301
 - (d) Compaq Presario
45. _____ is an operating system.
- (a) Windows
 - (b) Ms Excel
 - (c) MS-Word
 - (d) MS-PowerPoint
46. Which one of the following is a valid email address?
- (a) trupti@gmail.com
 - (b) gmail.com
 - (c) trupti@com
 - (d) None of these
47. The internet, sometimes called simply "Net" is
- (a) a huge network of networks that joins computers from all across the world
 - (b) an internal communication system
 - (c) a communication system for the government
 - (d) All of the above
48. Which of the following is a mobile operating system?
- (a) Linux
 - (b) Unix
 - (c) Android
 - (d) Windows
49. _____ is an example(s) of Social media.
- (a) Facebook
 - (b) YouTube
 - (c) WhatsApp
 - (d) All of these
50. Digital Citizenship refers to the
- (a) ability to engage positively, critically and competently in the digital environment
 - (b) ability to engage positively
 - (c) competently in the digital environment
 - (d) None of these
51. Which of the following is the determinant of human development?
- (a) Almost by the genetic factors of the individual.
 - (b) Certain factors or sources over which the individual has no control.
 - (c) A complex inherited and environmental forces.
 - (d) Factors that vary from individual to individual.
52. What is the age limit of later childhood stage?
- (a) 0 to 2 years
 - (b) 2 to 6 years
 - (c) 4 to 7 years
 - (d) 6 to 12 Years.
53. What is not true about 'Growth'?
- (a) Growth is quantitative
 - (b) Growth is qualitative
 - (c) Growth is physical in nature
 - (d) Growth can be measured.

54. Which one of the following is not an 'Internal Factor' affecting growth and development?
 (a) Environment (b) Intelligence
 (c) Heredity (d) Glands.
55. Which of the following aspects is not included in the 'Intellectual' development of the child?
 (a) Formation of perceptions
 (b) Formation of concepts
 (c) Development of language
 (d) Growth of body proportions and changes in blood pressure.
56. According to Piaget, at what stage does abstract thinking begin to develop?
 (a) Formal operational
 (b) Concrete operational
 (c) Sensori-motor
 (d) Pre-operational.
57. What is intra individual differences?
 (a) Differences among the individuals
 (b) Differences within the individual
 (c) Differences between individuals
 (d) None of the above.
58. Who had defined 'Learning as a process of progressive behavior adaptation'?
 (a) Crow & Crow
 (b) Daniel Bell
 (c) B.F. Skinner
 (d) Gardner & Murphy.
59. The force which works from inside the individual & requires no external stimulus is called as;
 (a) Intrinsic motivation
 (b) Extrinsic motivation
 (c) External motivation
 (d) All the above
60. What is the first step of creativity process?
 (a) Incubation
 (b) Illumination
 (c) Preparation
 (d) Evaluation
61. Which of the following is not an example of extrinsic motivation?
 (a) Praise (b) Reward
 (c) Curiosity (d) Prize.
62. Which of the following is a characteristic of a gifted child?
 (a) Low I.Q. Score
 (b) Unable to interact with others
 (c) Poor imagination power
 (d) Good in abstract thinking.
63. Who has propounded the 'Trial and Error' theory of learning?
 (a) BF Skinner
 (b) Crow & Crow
 (c) EL Thorndike
 (d) Kohler

64. Which one of the followings is a type of 'Dysgraphia'?
- Sensory impairment
 - Learning disability
 - Intellectual impairment
 - Locomotor disability
65. Which is associated with "Dyslexia"?
- Reading disorder
 - Hearing impairment
 - Mental disorder
 - Visual impairment
66. Which of the following is a characteristic of 'Learner-Centered' approach of teaching?
- Teacher concentrates on right answer
 - Teacher is mostly concerned with the completion of the course
 - The focus is on learning than teaching
 - All the above.
67. Which one of the followings is an important characteristic of 'Growth and Development'?
- They are contrary
 - They have nothing in common
 - They go hand in hand
 - They are synonymous.
68. What should be the characteristic of a good 'Language Text Book'?
- Reading materials
 - Pictures and illustrations
 - Cultural content
 - All of the above
69. Which one is included for the 'Continuous and Comprehensive Evaluation'?
- Only formative assessment
 - Only summative assessment
 - Neither formative nor summative assessment
 - Both formative and summative assessment using a wide variety of techniques.
70. Which of the following statement is not correct about CCE?
- It is school based evaluation
 - It includes all aspects of students' development
 - Diagnostic evaluation is not included in it
 - Here both formal and informal techniques are used
71. Which of the following is responsible for introducing English in school curriculum of our country?
- Wood's Despatch
 - Macaulay's Minutes
 - Hartog Committee Report
 - Sargent Committee Report
72. Which of the following is useful for learning language at the beginning ?
- Teaching
 - Explanation
 - Persuasion
 - Exposure

73. What challenge does a teacher face while teaching English in a diverse classroom of India ?

- (a) Cultural diversity
- (b) Multi-religious
- (c) Multi-lingualism
- (d) Diverse stratification

74. Which of the following is considered 'Receptive Skills' ?

- (a) Listening and Reading
- (b) Reading and Writing
- (c) Listening and Speaking
- (d) Speaking and Reading

75. Primary requirement for writing a composition is :

- (a) sequencing (b) vocabulary
- (c) idea (d) style

Read the passage carefully and answer the questions that follow :

Making children sensitive to the environment and the need for its protection is an important concern of education. The emergence of new technological choices and the present living styles witnessed during the last century have resulted in environmental degradation and vast imbalances in life. It has become imperative now more than ever before to nurture and preserve the environment. Education can provide the necessary perspective on how human life can be reconciled with the crisis of the environment so that survival, growth and development remain possible.

76. Choose the most appropriate one from among the options similar in meaning to the word 'nurture'.

- (a) Bring about
- (b) Bring forth
- (c) Bring out
- (d) Bring up

77. The correct noun form of 'reconcile' is

- (a) reconciliation
- (b) reconcilation
- (c) reconcillination
- (d) reconcillasion

Read the passage below carefully and answer the questions that follow :

There is always a close and intimate relationship between the end we aim at and the means adopted to attain it. Even if the end is right but the means are wrong, it will vitiate the end or divert man in wrong direction. Means and ends are thus intimately connected and can not be separated. That, indeed, has been the lesson of old taught us by many great men in the past, but unfortunately it is seldom remembered. Two world wars are the price that has been paid for not paying heed to the wisdom of the past. It is a terrible price yet we have not purchased peace or a cessation of conflict and tragedy is that mankind does not profit by its experience and continues the same way.

78. Which of the following is a true statement as per the passage above ?
- Even if means are same, ends are different.
 - Even if means are different, ends are same.
 - If means are different, ends are different.
 - Ends are not always the consequence of means.
79. Choose the correct preposition to complete the sentence 'The man was accused _____ theft'.
- for
 - with
 - of
 - on
80. Which is the correct sentence ?
- She said that she will go to school tomorrow.
 - She said that she would go to school tomorrow.
 - She said that she would go the school the next day.
 - She said that she will go to school the next day.
81. Which of the following indicates integration of Science and Social Sciences ?
- understanding social challenges
 - man environment relationship
 - understanding cultural heritage
 - understanding Indian polity
- 82.. Which is the most important aid of teaching learning EVS ?
- Awareness about environmental concerns
 - Understanding societal challenges
 - Developing analytical outlooks
 - Promoting environmental related values
83. Which statement is correct ?
- EVS merely transmits information
 - EVS has little scope for scientific enquiry
 - EVS has a normative responsibility
 - EVS is limited within its subject boundaries
- 84.. Which technique is more useful in Activity based approach ?
- Project
 - Experiment
 - Group work
 - Survey
- 85.. An assessment carried out throughout the duration in a period is
- Summative assessment
 - Formative assessment
 - Continuous assessment
 - Comprehensive assessment

86. When was Panchayat Raj introduced in India ?
 (a) November 4, 1953
 (b) September 23, 1960
 (c) October 5, 1958
 (d) October 2, 1959
87. Who is the final interpreter of our constitution ?
 (a) Central Government
 (b) Judiciary
 (c) Legislative
 (d) Executive
88. On the eve of which mass movement was the 'Do or die' slogan given to the nation ?
 (a) Rowlat Satyagraha
 (b) Salt Satyagraha
 (c) Quit India Movement
 (d) Non-cooperation movement
89. Kwashiorkor is caused due to deficiency of
 (a) Carbohydrate
 (b) Iron
 (c) Protein
 (d) Vitamin
90. Rotation of Earth causes
 (a) solar eclipse
 (b) summer season
 (c) day and night
 (d) Season change
91. Clarity of thought and pursuing assumptions to logical conclusions is central to the Mathematical enterprise - keeping in view the importance of Mathematics in daily life it was recommended by _____
 (a) NPE-1986 (b) NCF - 2005
 (c) NEP- 2020 (d) NPE-1968
92. Which of the following is not a nature of Mathematics?
 (a) Symbolical
 (b) Preciseness
 (c) Exactness
 (d) Precedence
93. Which one of the following is not linked with aims of teaching Mathematics?
 (a) Understanding
 (b) Infer
 (c) Recognise
 (d) Classify
94. Which of the following is not an affective domain in teaching Mathematics ?
 (a) Participating in Mathematics quiz
 (b) Preparing budget for school annual function
 (c) Reading of mathematical articles published in different journals
 (d) Become more confident

95. In which method of teaching a formula or generalization is arrived at through a convincing process of reasoning and solving of problems?

- (a) Discovery (b) Inductive
(c) Analysis (d) Project

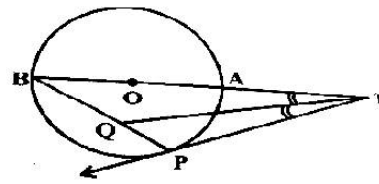
96. If a number is increased by 50% and then decreased by 60%, the resulting number becomes 80 less than the original number. What was the original number?

- (a) 80 (b) 100
(c) 130 (d) 200

97. The smallest number, which when divided by 12, 15, 18 separately leaves remainder 3 in each case. It should be divided by which greatest possible prime number to leave 9 as remainder?

- (a) 17 (b) 23
(c) 29 (d) 31

98.



In the above figure O is the centre of the circle and TP is a tangent with P as the point of contact. If Q is a point on BP and QT bisects $\angle BTP$, find $m\angle TQP$.

- (a) 30° (b) 45°
(c) 50° (d) 60°

99. Find the missing term in the following series.

1, 5, 14, 30, 55, -----

- (a) 80 (b) 90
(c) 96 (d) 91

100. The cost of 5 mangoes is equal to the cost of 20 oranges. If the total cost of 2 mangoes and 10 oranges is ₹22.50, find the cost of one orange.

- (a) ₹1.20 (b) ₹1.30
(c) ₹1.25 (d) ₹1.35

ROUGH WORK

ANSWER TIPS

B.Sc., B.Ed. (PCM)

1. (c) Kelucharan Mohapatra
2. (d) Raj Path
3. (b) Tokyo
4. (a) 1817
5. (c) Umesh Chandra Banerjee
6. (d) Salt Satyagraha
7. (a) Himachal Pradesh
8. (a) Rajasthan
9. (b) Alexander Island
10. (c) 101
11. (d) 10
12. (c) Ajit K. Doval
13. (c) New Parliament Building
14. (b) Shashikanta Das
15. (c) 8th November 2016
16. (d) INR
17. (a) Existence of water and ice on moon
18. (b) Pixel
19. (c) Covaxin
20. (a) Vitamin - C
21. (c) EOJDJEFM
22. (d) Granddaughter
23. (a) 8
24. (a) 0
25. (a) Only I follows
26. (b) Wednesday
27. (d) 14
28. (b) donate your blood at the camp
29. (b) Look into reasons for non-cooperation
30. (a) Lodge a complaint to chairperson against the discrimination
31. (b) 33
32. (c) 23
33. (b) 322
34. (b) 10% profit
35. (a) Rs. 1140
36. (d) None of these
37. (b) 25:27
38. (b) 10%
39. (a) PT
40. (c) 5.2 Lakhs
41. (a) Information and Communication Technology
42. (a) 1970
43. (c) 1024
44. (c) MS Paint
45. (a) Operating System
46. (d) Wireless device
47. (b) a vast collection of different networks
48. (b) Social networking sites
49. (d) 2-step verification

50. (a) Someone who recognizes that there are rights and responsibilities associated with using the internet and other information technology
51. (c) Heredity
52. (b) Failure
53. (d) Concrete operational stage
54. (b) Thoughts, Behaviours and Feelings
55. (d) Both book and spoken language
56. (c) Teacher plays pivotal role
57. (d) Evaluation Strategy
58. (a) Audio Aids
59. (c) Both A and B
60. (c) Principle of Centralization
61. (c) Right to free and Compulsory Education Act 2009
62. (a) Functional
63. (b) 3-8 years
64. (d) 1st April 2010
65. (a) Preschool to Class-12
66. (b) Judgement
67. (b) Diagnostic Evaluation
68. (c) Standardised Achievement Test
69. (d) The evaluation becomes easy and error free
70. (a) Holistic development
71. (b) Orthophosphoric acid
72. (c) 1.51
73. (a) 14
74. (c) 03
75. (c) BCl_3 and NCl_3
76. (d) All types of reaction can be balanced by change in oxidation number method
77. (c) 07
78. (d) Mg
79. (d) $\text{CH}_3 - \text{CO} - \overset{\ominus}{\text{C}}\text{H}_2$
80. (a) $\text{III} > \text{I} > \text{II} > \text{IV}$
81. (b) 20 N
82. (d) 45.6 days
83. (a) 4 times
84. (d) Square of amplitude of oscillation
85. (c) 165 m
86. (b) $\frac{n-1}{n}h$
87. (d) Bending of light at a sharp edge
88. (b) $\frac{1}{2}$ amp
89. (c) $3\mu\text{F}$, $2\mu\text{F}$
90. (a) $220\sqrt{2}$ volts
91. (d) $A \cup B = \{1,2,3,5,9\}$
92. (d) none of these
93. (a) $>$
94. (a) Injective
95. (c) $a > 4$
96. (a) $n(2 - 3n)$
97. (b) $\frac{x^2}{25} + \frac{y^2}{9} = 1$
98. (c) 0
99. (b) $\frac{\sqrt{n^2 - 1}}{12}$
100. (c) $\frac{1}{365}$

ANSWER TIPS

B.Sc., B.Ed. (CBZ)

1. (c) Kelucharan Mohapatra
2. (d) Raj Path
3. (b) Tokyo
4. (a) 1817
5. (c) Umesh Chandra Banerjee
6. (d) Salt Satyagraha
7. (a) Himachal Pradesh
8. (a) Rajasthan
9. (b) Alexander Island
10. (c) 101
11. (d) 10
12. (c) Ajit K. Doval
13. (c) New Parliament Building
14. (b) Shashikanta Das
15. (c) 8th November 2016
16. (d) INR
17. (a) Existence of water and ice on moon
18. (b) Pixel
19. (c) Covaxin
20. (a) Vitamin - C
21. (c) EOJDJEFM
22. (d) Granddaughter
23. (a) 8
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40. (c) 5.2 Lakhs
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43. (c) 1024
44. (c) MS Paint
45. (a) Operating System
46. (d) Wireless device
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51. (c) Heredity
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53. (d) Concrete operational stage
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56. (c) Teacher plays pivotal role
57. (d) Evaluation Strategy
58. (a) Audio Aids
59. (c) Both A and B
60. (c) Principle of Centralization
61. (c) Right to free and Compulsory Education Act 2009
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64. (d) 1st April 2010
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70. (a) Holistic development
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73. (a) 14
74. (c) 03
75. (c) BCl_3 and NCl_3
76. (d) All types of reaction can be balanced by change in oxidation number method
77. (c) 07
78. (d) Mg
79. (d) $\text{CH}_3 - \text{CO} - \overset{\ominus}{\text{C}}\text{H}_2$
80. (a) $\text{III} > \text{I} > \text{II} > \text{IV}$
81. (b) all the bryophytes, pteridophytes and some algae
82. (d) hypodermis, cortex and endodermis
83. (c) PEP
84. (b) carbon dioxide
85. (a) 1 to 3
86. (c) ABA
87. (b) cellulose and pectin
88. (c) phenylketonuria
89. (d) *Phytophthora infestans*
90. (b) to determine if the plant with the dominant phenotype is homozygous or heterozygous
91. (c) Birds and Mammals
92. (b) S - phase (S)
93. (c) More
94. (a) Sympatric
95. (b) Autotrophs
96. (d) Mitochondria
97. (c) Pancreas
98. (a) 100
99. (b) Liver
100. (d) SA node

ANSWER TIPS

B.A., B.Ed. (Arts)

1. (c) Kelucharan Mohapatra
2. (d) Raj Path
3. (b) Tokyo
4. (a) 1817
5. (c) Umesh Chandra Banerjee
6. (d) Salt Satyagraha
7. (a) Himachal Pradesh
8. (a) Rajasthan
9. (b) Alexander Island
10. (c) 101
11. (d) 10
12. (c) Ajit K. Doval
13. (c) New Parliament Building
14. (b) Shashikanta Das
15. (c) 8th November 2016
16. (d) INR
17. (a) Existence of water and ice on moon
18. (b) Pixel
19. (c) Covaxin
20. (a) Vitamin - C
21. (c) EOJDJEFM
22. (d) Granddaughter
23. (a) 8
24. (a) 0
25. (a) Only I follows
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27. (d) 14
28. (b) donate your blood at the camp
29. (b) Look into reasons for non-cooperation
30. (a) Lodge a complaint to chairperson against the discrimination
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32. (c) 23
33. (b) 322
34. (b) 10% profit
35. (a) Rs. 1140
36. (d) None of these
37. (b) 25:27
38. (b) 10%
39. (a) PT
40. (c) 5.2 Lakhs
41. (a) Information and Communication Technology
42. (a) 1970
43. (c) 1024
44. (c) MS Paint
45. (a) Operating System
46. (d) Wireless device
47. (b) a vast collection of different networks
48. (b) Social networking sites
49. (d) 2-step verification
50. (a) Someone who recognizes that there are rights and responsibilities associated with using the internet and other information technology
51. (c) Heredity
52. (b) Failure

53. (d) Concrete operational stage
54. (b) Thoughts, Behaviours and Feelings
55. (d) Both book and spoken language
56. (c) Teacher plays pivotal role
57. (d) Evaluation Strategy
58. (a) Audio Aids
59. (c) Both A and B
60. (c) Principle of Centralization
61. (c) Right to free and Compulsory Education Act 2009
62. (a) Functional
63. (b) 3-8 years
64. (d) 1st April 2010
65. (a) Preschool to Class-12
66. (b) Judgement
67. (b) Diagnostic Evaluation
68. (c) Standardised Achievement Test
69. (d) The evaluation becomes easy and error free
70. (a) Holistic development
71. (c) Months of October and November
72. (b) Pakistan
73. (b) Falkland Current
74. (b) Horst mountain
75. (d) Institutional
76. (b) Hiranya
77. (c) Itimad-ud-daula's tomb
78. (b) Attorney General of India
79. (d) Returning Officer of the Constituency concerned
80. (b) General Assembly
81. (a) doubled
82. (d) Developing countries have twice the growth rate as the rich
83. (c) decrease in death rate
84. (d) keep the death rate the same as the birth rate
85. (b) it can be done autonomously
86. (d) W. B. Yeats
87. (c) Fable
88. (a) Profound.....pregnant
89. (c) Tend.....Gravitate
90. (a) Ignored
91. (b) ଲକ୍ଷ୍ମୀକାନ୍ତ ମହାପାତ୍ର
92. (d) ଉତ୍କଳଲକ୍ଷ୍ମୀ
93. (c) ଗୋପୀନାଥ ମହାନ୍ତି
94. (b) ଯୋଗ୍ୟତା, ଆକାଂକ୍ଷା, ଆସର୍ତ୍ତ
95. (b) ଯୌଗିକ
96. (a) ୪
97. (a) ଶୁଶ୍ରୁଷା
98. (d) ବୁଦ୍ଧିବଶା ହେବା
99. (c) ଉତ୍ପ୍ରେକ୍ଷା
100. (a) ନଅ

ANSWER TIPS

HINDI

1. (c) Kelucharan Mohapatra
2. (d) Raj Path
3. (b) Tokyo
4. (a) 1817
5. (c) Umesh Chandra Banerjee
6. (d) Salt Satyagraha
7. (a) Himachal Pradesh
8. (a) Rajasthan
9. (b) Alexander Island
10. (c) 101
11. (d) 10
12. (c) Ajit K. Doval
13. (c) New Parliament Building
14. (b) Shashikanta Das
15. (c) 8th November 2016
16. (d) INR
17. (a) Existence of water and ice on moon
18. (b) Pixel
19. (c) Covaxin
20. (a) Vitamin - C
21. (c) EOJDJEFM
22. (d) Granddaughter
23. (a) 8
24. (a) 0
25. (a) Only I follows
26. (b) Wednesday
27. (d) 14
28. (b) donate your blood at the camp
29. (b) Look into reasons for non-cooperation
30. (a) Lodge a complaint to chairperson against the discrimination
31. (b) 33
32. (c) 23
33. (b) 322
34. (b) 10% profit
35. (a) Rs. 1140
36. (d) None of these
37. (b) 25:27
38. (b) 10%
39. (a) PT
40. (c) 5.2 Lakhs
41. (a) Information and Communication Technology
42. (a) 1970
43. (c) 1024
44. (c) MS Paint
45. (a) Operating System
46. (d) Wireless device

- | | |
|---|---|
| 47. (b) a vast collection of different networks | 71. (b) रवीन्द्रनाथ ठाकुर ने |
| 48. (b) Social networking sites | 72. (d) गन्धर्वों और यक्षों की |
| 49. (d) 2-step verification | 73. (b) चरखा कातनेके |
| 50. (a) Someone who recognizes that there are rights and responsibilities associated with using the internet and other information technology | 74. (b) पति से भिन्न है |
| 51. (c) Heredity | 75. (a) कलकत्ता में |
| 52. (b) Failure | 76. (a) पति-पत्नी का |
| 53. (d) Concrete operational stage | 77. (a) कुमार गिरि का |
| 54. (b) Thoughts, Behaviours and Feelings | 78. (c) रत्नाम्बर की |
| 55. (d) Both book and spoken language | 79. (d) सिंहमित्र की |
| 56. (c) Teacher plays pivotal role | 80. (c) मगध का |
| 57. (d) Evaluation Strategy | 81. (d) चंपा के पिता |
| 58. (a) Audio Aids | 82. (c) बीस साल |
| 59. (c) Both A and B | 83. (b) कालिन्दीचरण की |
| 60. (c) Principle of Centralization | 84. (d) अपनी दीनता के भार से |
| 61. (c) Right to free and Compulsory Education Act 2009 | 85. (c) पैंतीस |
| 62. (a) Functional | 86. (c) मालविका से |
| 63. (b) 3-8 years | 87. (b) चाणक्य का |
| 64. (d) 1st April 2010 | 88. (a) विप्रलंभ श्रृंगार |
| 65. (a) Preschool to Class-12 | 89. (d) कालिदास की |
| 66. (b) Judgement | 90. (b) रजिया के प्रति एक अज्ञात आकर्षण |
| 67. (b) Diagnostic Evaluation | 91. (c) बारह आनेके |
| 68. (c) Standardised Achievement Test | 92. (b) अद्वैतवादी |
| 69. (d) The evaluation becomes easy and error free | 93. (a) जल मरनेमें |
| 70. (a) Holistic development | 94. (d) बातों का |
| | 95. (a) माया देवी |
| | 96. (d) मानववादी |
| | 97. (c) नीरवता के |
| | 98. (b) वर्णों के मेल को |
| | 99. (d) सकर्मक क्रिया और भूतकाल में |
| | 100. (a) धातु के |

ANSWER TIPS

SANSKRIT

1. (c) Kelucharan Mohapatra
2. (d) Raj Path
3. (b) Tokyo
4. (a) 1817
5. (c) Umesh Chandra Banerjee
6. (d) Salt Satyagraha
7. (a) Himachal Pradesh
8. (a) Rajasthan
9. (b) Alexander Island
10. (c) 101
11. (d) 10
12. (c) Ajit K. Doval
13. (c) New Parliament Building
14. (b) Shashikanta Das
15. (c) 8th November 2016
16. (d) INR
17. (a) Existence of water and ice on moon
18. (b) Pixel
19. (c) Covaxin
20. (a) Vitamin - C
21. (c) EOJDJEFM
22. (d) Granddaughter
23. (a) 8
24. (a) 0
25. (a) Only I follows
26. (b) Wednesday
27. (d) 14
28. (b) donate your blood at the camp
29. (b) Look into reasons for non-cooperation
30. (a) Lodge a complaint to chairperson against the discrimination
31. (b) 33
32. (c) 23
33. (b) 322
34. (b) 10% profit
35. (a) Rs. 1140
36. (d) None of these
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38. (b) 10%
39. (a) PT
40. (c) 5.2 Lakhs
41. (a) Information and Communication Technology
42. (a) 1970
43. (c) 1024
44. (c) MS Paint
45. (a) Operating System
46. (d) Wireless device
47. (b) a vast collection of different networks
48. (b) Social networking sites
49. (d) 2-step verification
50. (a) Someone who recognizes that there are rights and responsibilities associated with using the internet and other information technology

- | | |
|---|-------------------------|
| 51. (c) Heredity | 78. (c) व्याख्याविधिः |
| 52. (b) Failure | 79. (b) लेखनरूपे |
| 53. (d) Concrete operational stage | 80. (a) दण्डान्वयविधिना |
| 54. (b) Thoughts, Behaviours and Feelings | 81. (a) अन्त्याक्षरी |
| 55. (d) Both book and spoken language | 82. (b) शुद्धोच्चारणम् |
| 56. (c) Teacher plays pivotal role | 83. (b) त्रीणि |
| 57. (d) Evaluation Strategy | 84. (c) १० |
| 58. (a) Audio Aids | 85. (b) ईशस्य |
| 59. (c) Both A and B | 86. (b) मातृः |
| 60. (c) Principle of Centralization | 87. (a) सर्वासाम् |
| 61. (c) Right to free and Compulsory Education Act 2009 | 88. (c) महाराज्ञी |
| 62. (a) Functional | 89. (a) चतुर्षु |
| 63. (b) 3-8 years | 90. (b) १२ |
| 64. (d) 1st April 2010 | 91. (d) त्रिविक्रमभट्टः |
| 65. (a) Preschool to Class-12 | 92. (b) प्रकरणम् |
| 66. (b) Judgement | 93. (a) हर्षचरितम् |
| 67. (b) Diagnostic Evaluation | 94. (d) भासः |
| 68. (c) Standardised Achievement Test | 95. (a) द्वाविव |
| 69. (d) The evaluation becomes easy and error free | 96. (a) माधव्यः |
| 70. (a) Holistic development | 97. (b) कुबेरः |
| 71. (c) सस्वरश्लोकावृत्तिः | 98. (b) अधिकरणे |
| 72. (d) संस्कृतस्य व्यवहारः | 99. (a) कर्तव्यम् |
| 73. (c) चिन्तनम् | 100. (d) यू स्यादख्यौ |
| 74. (d) भाषाकौशलानामभ्यासः | |
| 75. (d) पुस्तकम् | |
| 76. (d) व्याख्यानविधिः | |
| 77. (b) रामकृष्णगोपालभण्डारकरः | |

ANSWER TIPS

PET

1. (c) Kelucharan Mohapatra
2. (d) Raj Path
3. (b) Tokyo
4. (a) 1817
5. (c) Umesh Chandra Banerjee
6. (d) Salt Satyagraha
7. (a) Himachal Pradesh
8. (a) Rajasthan
9. (b) Alexander Island
10. (c) 101
11. (d) 10
12. (c) Ajit K. Doval
13. (c) New Parliament Building
14. (b) Shashikanta Das
15. (c) 8th November 2016
16. (d) INR
17. (a) Existence of water and ice on moon
18. (b) Pixel
19. (c) Covaxin
20. (a) Vitamin - C
21. (c) EOJDJEFM
22. (d) Granddaughter
23. (a) 8
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32. (c) 23
33. (b) 322
34. (b) 10% profit
35. (a) Rs. 1140
36. (d) None of these
37. (b) 25:27
38. (b) 10%
39. (a) PT
40. (c) 5.2 Lakhs
41. (a) Information and Communication Technology
42. (a) 1970
43. (c) 1024
44. (c) MS Paint
45. (a) Operating System
46. (d) Wireless device
47. (b) a vast collection of different networks
48. (b) Social networking sites
49. (d) 2-step verification

50. (a) Someone who recognizes that there are rights and responsibilities associated with using the internet and other information technology
51. (c) Heredity
52. (b) Failure
53. (d) Concrete operational stage
54. (b) Thoughts, Behaviours and Feelings
55. (d) Both book and spoken language
56. (c) Teacher plays pivotal role
57. (d) Evaluation Strategy
58. (a) Audio Aids
59. (c) Both A and B
60. (c) Principle of Centralization
61. (c) Right to free and Compulsory Education Act 2009
62. (a) Functional
63. (b) 3-8 years
64. (d) 1st April 2010
65. (a) Preschool to Class-12
66. (b) Judgement
67. (b) Diagnostic Evaluation
68. (c) Standardised Achievement Test
69. (d) The evaluation becomes easy and error free
70. (a) Holistic development
71. (c) Planning
72. (d) Teaching
73. (c) vertebral column
74. (b) Speed
75. (a) Physical training
76. (c) Vitamin B₂
77. (c) Semicircle
78. (b) 1900 Paris
79. (d) Intramurals
80. (a) Isometric strength
81. (c) Strength endurance
82. (d) Pectoralis major
83. (c) 18.5-24.9
84. (c) Adaptation to load
85. (b) 1500 meter race
86. (d) Principle of periodization
87. (c) Thorndike
88. (d) Family
89. (b) Centrifugal force is more than Centripetal force
90. (c) Pierre de Coubertin
91. (d) All of the above
92. (b) When people operate as leaders their role is always clearly established and defined
93. (b) Muscles
94. (a) white colour
95. (b) Gymnastic
96. (d) 7
97. (b) Mass
98. (c) 15
99. (b) a,c,e
100. (d) Muscular system

ANSWER TIPS

I.A. CT / I.Sc. CT

1. (b) Konark
2. (c) Sambalpur
3. (d) Kamla Harris
4. (a) USA
5. (b) Shah Jahana
6. (a) 12th
7. (c) Pawan Kumar Chamling
8. (d) Geneva
9. (c) Pound
10. (d) LED
11. (c) Kelucharan Mohapatra
12. (a) 1817
13. (c) Umesh Chandra Banerjee
14. (a) Himachal Pradesh
15. (a) Rajasthan
16. (b) Alexander Island
17. (c) Ajit K. Doval
18. (b) Shashikanta Das
19. (c) Covaxin
20. (a) Vitamin - C
21. (c) EOJDJEFM
22. (d) Granddaughter
23. (a) 8
24. (a) 0
25. (a) Only I follows
26. (b) Wednesday
27. (d) 14
28. (b) donate your blood at the camp
29. (b) Look into reasons for non-cooperation
30. (a) Lodge a complaint to chairperson against the discrimination
31. (b) 33
32. (c) 23
33. (b) 322
34. (b) 10% profit
35. (a) Rs. 1140
36. (d) None of these
37. (b) 25:27
38. (b) 10%
39. (a) PT
40. (c) 5.2 Lakhs
41. (d) Optimize learning outcomes
42. (b) Electronics
43. (d) All of these
44. (b) Param
45. (a) Windows
46. (a) trupti@gmail.com
47. (a) a huge network of networks that joins computers from all across the world
48. (c) Android
49. (d) All of these
50. (a) ability to engage positively, critically and competently in the digital environment

51. (c) A complex inherited and environmental forces.
52. (d) 6 to 12 Years
53. (b) Growth is qualitative
54. (a) Environment
55. (d) Growth of body proportions and changes in blood pressure
56. (a) Formal operational
57. (b) Differences within the individual
58. (c) B.F. Skinner
59. (a) Intrinsic motivation
60. (c) Preparation
61. (c) Curiosity
62. (d) Good in abstract thinking
63. (c) EL Thorndike
64. (b) Learning disability
65. (a) Reading disorder
66. (c) The focus is on learning than teaching
67. (c) They go hand in hand
68. (d) All of the above
69. (d) Both formative and summative assessment using a wide variety of techniques.
70. (c) Diagnostic evaluation is not included in it
71. (b) Macaulay's Minutes
72. (d) Exposure
73. (c) Multi-lingualism
74. (a) Listening and Reading
75. (c) idea
76. (d) Bring up
77. (a) reconciliation
78. (d) Ends are not always the consequence of means.
79. (c) of
80. (b) She said that she would go to school tomorrow.
81. (b) man environment relationship
82. (d) Promoting environmental related values
83. (c) EVS has a normative responsibility
84. (a) Project
85. (b) Formative assessment
86. (d) October 2, 1959
87. (b) Judiciary
88. (c) Quit India Movement
89. (c) Protein
90. (c) day and night
91. (b) NCF - 2005
92. (d) Precedence
93. (a) Understanding
94. (b) Preparing budget for school annual function
95. (b) Inductive
96. (d) 200
97. (c) 29
98. (b) 45⁰
99. (d) 91
100. (c) ₹1.25