Total no. of Printed Pages: 32

Time: 2 Hours, 30 Minutes
Max. Marks: 150

Instructions to the candidates:

1. Write your Hall Ticket number in the box provided at the left side of the booklet immediately after receiving the Test Booklet.

2. Check whether the Test Booklet contains as many pages as are printed on the top of this page.

3. Check whether all pages are printed properly. Do not remove any pages from the Test Booklet.

4. Indicate your answers in the given OMR answer sheet only. Read the instructions given on both sides of the OMR answer sheet and follow them accordingly. Do not write the answers in the Test Booklet.

5. This Test Booklet consists of 150 multiple choice questions. Answer all questions. Each question carries one (1) mark only.

6. Do not do any rough work in the Test Booklet. Use only the white paper provided at the end of the question booklet for rough work.

7. After completion of the examination, hand over the OMR answer sheet to the Hall Superintendent without fail.

8. Candidate will not be permitted to leave the examination hall till the completion of the stipulated examination time.

W-101/TET-111-EM/TM

P.T.O.
1. Concept of 'developmental tasks' was first introduced by ..........
   (1) Elizabeth Hurlock
   (2) Sigmund Freud
   (3) Piaget
   (4) Robert Havighurst

2. An educationist conducted a study on the 'influence of the leadership styles of the head of the institutions on the adjustment of their students'. The 'adjustment of students' in this study means ..........
   (1) dependence
   (2) independence
   (3) interference
   (4) intervention

3. Modifications in the existing schema in response to new information and experience is called ..........
   (1) assimilation
   (2) accommodation
   (3) metacognition
   (4) megaschema

4. A student of class V asked his classmate not to copy in the examination as he will be punished if caught by the invigilator. This demonstrates the following level of moral judgment of Kohlberg.
   (1) Preconventional
   (2) Conventional
   (3) Postconventional
   (4) Unconventional
5. One of the following tests assesses the intelligence accurately.
   (1) Culture free test
   (2) Culture fair test
   (3) Culturally oriented test
   (4) Culture lag test

6. Ambiguous stimuli are present in one of the following tests.
   (1) Projective
   (2) Rating scales
   (3) Inventories
   (4) Nonprojective

7. Development of a three-year-old child is delayed due to lack of nutritious food. The factor responsible for this developmental delay is .........
   (1) environment
   (2) heredity
   (3) genetical
   (4) heredity and environment

8. Laxman got an opportunity to work in the USA which he likes most, but is not able to decide to work as he has to leave his aged parents alone. The conflict Laxman is facing is ......
   (1) Approach–Approach
   (2) Avoidance–Avoidance
   (3) Approach–Avoidance
   (4) Double approach

9. Ramu's handwriting is good. His performance is average in Mathematics. Overall, his performance is good when compared to his classmates. This example talks about this type of individual difference.
   (1) intra-individual difference
   (2) inter-individual difference
   (3) both intra- and inter-individual difference
   (4) interfering individual difference
10. Daniel Goleman popularized this concept.
(1) multiple intelligence
(2) intelligence quotient
(3) emotional intelligence
(4) intelligence classification

11. Choose the most effective motivation from the following.
(1) Sustained intrinsic motivation
(2) Sustained extrinsic motivation
(3) Sustained or unsustained intrinsic motivation
(4) Sustained or unsustained extrinsic motivation

12. Following the traffic signals such as red, green and orange are related to this type of learning theory.
(1) Insight
(2) Discovery
(3) Conditioning
(4) Programmed conditioning

13. One of the following approaches is suitable for solving a problem innovatively.
(1) Classical conditioning
(2) Operant conditioning
(3) Trial and error
(4) Gestalt
14. One of the following is correct with regards to the constructive approach.
(1) Learner constructs his own knowledge based on his experiences
(2) Teacher constructs the knowledge and gives it to the learner in a sequential manner
(3) Learner constructs knowledge that is liked by elders and benefitting to the society
(4) Learner constructs his own knowledge strictly on the basis of regular classroom instruction

15. One of the limitations of programmed learning is ......
(1) self-paced learning
(2) immediate feedback
(3) chance factor in choosing the correct answer
(4) keeps the learner active

16. The statement you would agree with 'the teacher knowing the socioeconomic background of the students' is ...........
(1) not required as it amounts to the interference of the teacher into a student's private life
(2) required as it helps in better understanding of the students
(3) should not be allowed to know the status as economically poor students may develop a negative attitude towards children
(4) not supposed as teachers may treat students differently
17. A child who learned to pronounce 'but' has later on pronounced 'put' in the same way. The type of transfer of learning here is ........
(1) bilateral    (2) positive
(3) negative    (4) zero

18. Overlearning leads to ........
(1) enhancement of memory
(2) confusion
(3) less retention
(4) loss of memory

19. According to Vygotsky, children speak to themselves ........
(1) as they fear adults
(2) for self-guidance
(3) to gain self-confidence
(4) as a practice before speaking to others

20. Organizing effective learning in the following schools is a challenging task.
(1) Sainik schools
(2) Inclusive schools
(3) Play schools
(4) Special schools for hearing impaired

21. In a group of boys and girls who are equal in all other aspects except gender, the learning of girls was more. Here, the learning factor is ........
(1) personal
(2) environmental
(3) material
(4) interest
22. One of the following leadership styles of a teacher is appropriate for creating a nonthreatening learning environment.
(1) Laissez faire
(2) Participative
(3) Charismatic
(4) Autocratic

23. One of the following enhances learning.
(1) Learning for earning
(2) Learning for rewards
(3) Learning for examinations
(4) Learning to learn

24. Teaching should be a planned activity for ...........
(1) untrained teachers
(2) trained teachers
(3) newly recruited teachers.
(4) all teachers

25. The objective of 'inclusive education' is .......... 
(1) to protect the orthopaedically disabled children
(2) to fulfil the needs of the mentally retarded children
(3) to fulfil the needs of all special children
(4) to fulfil the needs of all children

26. Formulating the specific instructional objectives and writing them properly in behavioral terms is part of this teaching phase.
(1) Implementation phase
(2) Preactive phase
(3) Interactive phase
(4) Postactive phase
27. Conducting of annual examinations is a/an ..........
   (1) assessment for learning
   (2) comprehensive evaluation
   (3) assessment of learning
   (4) criterion referenced evaluation

28. According to the RTE Act, 2009, no child admitted in a school shall be held back in any class or expelled from school till the completion of ..........
   (1) primary education
   (2) upper primary education
   (3) secondary education
   (4) elementary education

29. A teacher tried to inculcate the habit of appreciation towards nature among the students. The learning domain related here is ..........
   (1) affective
   (2) cognitive
   (3) psychomotor
   (4) conative

30. According to NCF-2005, the association of learning with fear, discipline and stress rather than enjoyment and satisfaction ..........
   (1) leads to disciplined learning
   (2) is detrimental to learning
   (3) keeps students alert during the process of learning
   (4) makes them face any stressful situation
31. ఒక విద్యార్థి బాధితం చేసిన మనిషి అనే కారణం కారణం కారణం కారణం కారణం కారణం

32. గ్రామీణ ఆరోగ్యానికి సంబంధించిన పట్టిక ప్రకటన కారణం

33. స్థితి వివరణ కారణం

34. అన్వయం వివరణ కారణం

35. పాఠశాలలు విద్యార్థుల ప్రతి సంస్థను తండ్రికి చెప్పించాలి.
36 - 40 గ్రహణ సంధి సంపాదన, ఎలా మూడు సంపాదన సంపన్నతి కనుకునేందుకును.

విశిష్ట విషయ సంపాదన వివరానం

మూడు సంపాదన సంపన్నతి ప్రత్యయం

ప్రత్యేక విషయం సంపాదన ప్రకారం

మూడు సంపాదన సంపన్నతి ప్రత్యయం

36. ఎవరు మనం పాటించగానే?
   (1) అనేక
   (2) త్రిశాతక
   (3) మూడు
   (4) అదివంతం

37. ఎవరు మనం పాటించగానే?
   (1) మనం
   (2) త్రిశాతక
   (3) సాధన
   (4) ఒకప్పుడు

38. ఎవరు మనం పాటించగానే?
   (1) మనం
   (2) త్రిశాతక
   (3) సాధన
   (4) ఒకప్పుడు

39. ఎవరు మనం పాటించగానే?
   (1) అనేక
   (2) త్రిశాతక
   (3) మూడు
   (4) అదివంతం

40. ఎవరు మనం పాటించగానే?
   (1) అనేక + మూడు
   (2) త్రిశాతక + మూడు
   (3) మూడు + మూడు
   (4) అదివంతం + మూడు
41. మాత్రమే అభిసంధి అవసరం కాని మాత్రమే అవసరం
అనే సమాచారం మీద విచారం చేసే సమయం
ఉంటాయి
(1) అభిసంధిని, చెప్పండి మొదలు
(2) పేరుతుంది, అభిసంధి మొదలు
(3) మనం ఉంటాము, యుభాదంశం
(4) నా పండితుంది, రాయలు మొదలు

42. 'మాత్రమే' ప్రాంతం
(1) ప్రాంతం
(2) అభిసంధి, చెప్పండి ప్రాంతం
(3) ప్రతిష్ఠా వంటి ప్రాంతం
(4) ప్రాంతం

43. పిల్లల పరిస్థితుల లో ప్రశ్నలు ప్రకారం అభిసంధిని అనేకం ఆవిష్కరించండి:
(1) ప్రతివేశ పరిస్థితి చదివాలను అనేకం ఆవిష్కరించండి
(2) ప్రాంతం లో పరిస్థితి చదివాలను అనేకం ఆవిష్కరించండి
(3) ప్రతి పాఠ సామాన్యం చదివాలను అనేకం ఆవిష్కరించండి
(4) ప్రతి పాఠ సామాన్యం చదివాలను అనేకం ఆవిష్కరించండి

44. ఇది మాత్రమే అవసరం
(1) వ, ఇ, ఉ, ఓ
(2) ఇ, క, ఉ, ఓ
(3) ఈ, క, ఉ, ఓ
(4) అ, ఇ, ఉ, ఓ

45. మాత్రమే అధీనం కాదు
(1) మాత్రమే అధీనం కాదు, చెప్పండి ప్రాంతం
(2) మాత్రమే అధీనం కాదు, చెప్పండి ప్రాంతం
(3) మాత్రమే అధీనం కాదు, చెప్పండి ప్రాంతం
(4) మాత్రమే అధీనం కాదు, చెప్పండి ప్రాంతం

46. మాత్రమే అధీనం కాదు లోకాంశం (వికాసం):
(1) గుడ్డి ఉపసర్పం
(2) మాత్రమే కాదు
(3) సాంస్కృతికం
(4) సంప్రదాయం

47. 'మాత్రమే' ఎంపదల ప్రక్రియలు
(1) కరూ, కార్యం, మరనుండి
(2) మాత్రమే కాదు
(3) ఉంచడాను, విస్తరించడాను
(4) సంప్రదాయం, సంప్రదాయం, పండితుండి
<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>48. 'హింది' నాటి అధికరణ</td>
<td>(1) కాలురం</td>
</tr>
<tr>
<td>49. నాయి, నన్ను ఏ కండప్పడం కాదు నాం మనము ఆయుధం ఆధారంగా విద్యార్థిని 'సింహం' అంటే అనంతం సాధారణం 'మిగిలింది' ఎలా అనుసరించడానికి అది ఎందుకు సాధారణం చేయాలి:</td>
<td>(1) అనవిశాలం</td>
</tr>
<tr>
<td>50. నాయి, నన్ను ఏ కండప్పడం కాదు నాం మనము ఆయుధం ఆధారంగా విద్యార్థిని 'సింహం' అంటే అనంతం సాధారణం</td>
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</tr>
<tr>
<td>51. నాయి, నన్ను ఏ కండప్పడం కాదు నాం మనము ఆయుధం ఆధారంగా విద్యార్థిని 'సింహం' అంటే అనంతం సాధారణం</td>
<td>(1) అనవిశాలం</td>
</tr>
<tr>
<td>52. 'మా' ఎలా మనము బాగా చేయుము</td>
<td>(1) సదుపాయము విచారణ, అధికారం</td>
</tr>
<tr>
<td>53. నాయి, నన్ను ఏ కండప్పడం కాదు నాం మనము ఆయుధం ఆధారంగా విద్యార్థిని 'సింహం' అంటే అనంతం సాధారణం</td>
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</tr>
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<td>(1) చేసండట</td>
</tr>
</tbody>
</table>
55. మలాకేశ్వర్ రామనాథ శ్రేయ్య, మాష్టంశాయి నాయకారుడు
(1) సమీపం
(2) వాసుని
(3) రామనాథ
(4) రామాయణం

56. బ్రహ్మాండ్‌కు విశేషాలు ఉన్నాయనం
ధీరతను సంపద పచ్చడానికి జాతివంతతా రాశి చేస్తాదను
(1) ధీరతను
(2) చేకాడినం
(3) గుడిపాటి
(4) విశేషాలు

57. నాయికలు ప్రత్యేకతలను విశేషాలు ఉన్నాయి
(1) విశేషాలు
(2) సంపదం
(3) సంపద పచ్చడానికి
(4) విశేషాలు

58. చింతా రామనాథ, అంగద్ మాష్టంశాయిని సహస్రనాయకుడు
చింతా రామనాథ మాష్టంశాయి జస్తుడు మాష్టంశాయిని వాసులు
(1) చింతా
(2) రామనాథ
(3) అంగద్
(4) అంగద్ మాష్టంశాయి

59. వాతావరణాన్ని, ఆకాశం మార్గాలు చేసి, సాధనావస్థలి గొప్పను, అది రామనాథ రామనాథాన్ని వచ్చాయాను
(1) రామనాథాన్ని
(2) రామనాథాన్ని
(3) రామనాథాన్ని
(4) రామనాథాన్ని

60. నాయకుడు ప్రత్యేకతలను విశేషాలు ఉన్నాయి
నాయకుడు ప్రత్యేకతలను విశేషాలు ఉన్నాయి
(1) ప్రత్యేకతలను
(2) ప్రత్యేకతలను
(3) ప్రత్యేకతలను
(4) ప్రత్యేకతలను
61. Raghu, a friendly and lovely boy, plays piano very well. Identify the adjectives in the above sentence.
(1) lovely, well
(2) friendly, lovely, well
(3) friendly, lovely
(4) friendly, very, well

62. Match the phrases given on the left with the 'sea' words given on the right. Then choose the correct answer.
   a) the land at the
   b) land along the
   c) plants growing
   d) fish and fish-like
   p) seaweed
   q) seafood
   r) seabed
   s) seashore
   (1) a-s; b-p; c-r; d-q
   (2) a-r; b-q; c-p; d-s
   (3) a-q; b-r; c-p; d-s
   (4) a-r; b-s; c-p; d-q

65. Identify the part of the sentence that has an error. The parts are labelled as a, b, c and d.
Would you / follow me / wherever / I would go?
   (a) (b) (c) (d)
   (1) (a) (2) (b) (3) (c) (4) (d)

66. Identify the set of words containing only insects.
   (1) bee, ant, hare, fly
   (2) bee, ant, moped, butterfly
   (3) ant, bee, ladybird, butterfly
   (4) bee, butterfly, owl, ant

67. There is a word in the sentence whose letters, when rearranged, will give you the name of a part of your body. Identify that word.
'I think all this rough play on the hockey field will mar the image of the game!'
   (1) image (2) mar (3) game (4) rough

68. I don't like those bangles; ......., they are too expensive. Identify the correct option to fill in the blank.
   (1) besides (2) beside (3) apart from (4) in addition

69. He is arriving .......... the 3.15 train. Choose the correct preposition to fill in the blank.
   (1) in (2) on (3) with (4) to

70. A : I don't like cucumbers.
   B : .......... Identify the grammatically correct response of 'B'.
   (1) Neither I do. (2) I don't either.
   (3) I do too. (4) I nor do.
71. 'How do people learn languages?'
The passive form of the above sentence is .......... 
(1) How are languages learnt by people? 
(2) How were languages learnt? 
(3) Languages are learnt by people how? 
(4) How are languages learnt? 

72. Tomorrow, there is a meeting in our school. Come early, ........? 
Choose the question tag to complete the sentence. 
(1) do you (2) don't you (3) will you (4) won't you 

73. Salim said, "Prem is ill."
The reported form of the above sentence is ...... 
(1) Salim said that Prem was ill. 
(2) Salim told that Prem was ill. 
(3) Salim said me that Prem was ill. 
(4) Salim said me Prem was ill. 

74. Two people were injured in an accident and they were taken to ........ 
Identify the correct option to complete the sentence. 
(1) a hospital (2) an hospital (3) the hospital (4) hospital 

75. I go out less than I used to. 
The above sentence can also be written without changing the meaning as .......... 
(1) I go out as many times as I used to. 
(2) I don't go out as much as I used to. 
(3) I used to go out as much as I do now. 
(4) I go out at least as much as I used to. 

76. Tom and Bill are .......... friends. 
Choose the correct option to fill in the blank. 
(1) not longer (2) no more (3) no longer (4) not any much 

77. Identify the correct order of the parts of the sentence (a, b, c, d and e) given below. 
a) children living in villages 
b) in inner city areas 
c) than do their counterparts 
d) research shows that 
e) watch more television 
(1) a), e), b), d), c) 
(2) a), c), e), d), b) 
(3) d), a), e), c), b) 
(4) d), a), c), e), b) 

78. The letter 'o' in comic is pronounced as the 'o' in .......... 
(1) college (2) computer (3) cork (4) cold 

79. The horse is limping. It must have hurt its .......... 
Choose the correct option to complete the sentence. 
(1) mane (2) hoof (3) paw (4) claws 

80. I .......... him for his bravery and honesty. 
Identify the appropriate word to fill in the blank. 
(1) condemn (2) admire (3) content (4) plead
81 to 84: Read the following passage and answer the questions given below.

The proverb, 'Cowards die many times before their death' is extracted from Shakespeare's 'Julius Caesar'. The complete form of this proverb is 'Cowards die many times before their death; the valiant never taste of death but once.'

Caesar utters this maxim when his wife Calpurnia pleads with him not to go to the Senate on that day as she fears that he may die. Caesar declares that only cowards give in to fear. One should not lose heart when one encounters difficult situations in life. In such situations, one should gather all the forces at one's command and try to overcome them. If a person gives up in the face of adverse conditions, he cannot progress in life, as life is not a bed of roses. He or she should face the problems squarely and find ways to overcome them, as that is the only way to become successful in life.

81. The proverb, 'cowards die many times before their death' is uttered by ...........
   (1) Shakespeare
   (2) Julius Caesar
   (3) Calpurnia
   (4) The valiant person

82. Caesar's wife requests him ..........
   (1) not to go to the Senate
   (2) go to the Senate
   (3) not to die
   (4) not to lose heart

83. Caesar says, when one encounters difficult situations, ......
   Identify the latter part of the above sentence.
   (1) he should give up hope
   (2) he should leave it to God
   (3) he should seek someone's help
   (4) he should not give up hope

84. One should face problems squarely.
   Here 'squarely' means ............
   (1) surely
   (2) bravely
   (3) cleverly
   (4) patiently
85. A student passes your test on spoken English but cannot speak English outside the school. Then your test is not .......

(1) valid
(2) reliable
(3) practicable
(4) scorable

86. The discourse-oriented pedagogy is more effective than the other methods because ..........

(1) it encourages a learner's autonomy.
(2) it discourages a learner's inquiry
(3) it follows the behaviorist theory of learning
(4) it emphasizes teaching rather than learning

87. The number of syllables in the word 'internationalization' is ...........

(1) six
(2) nine
(3) seven
(4) eight

88. The function-based and task-centered approach is the ......

(1) structural approach
(2) S-O-S approach
(3) communicative approach
(4) situational approach

89. The activity of learners giving directions to each other's home as if they were going to visit each other is an example of ...........

(1) dramatization
(2) role-play
(3) simulation
(4) situation drill

90. Identify the set of capital letters that have similar strokes/patterns.

(1) IMH
(2) EFH
(3) AEM
(4) THV
91. The value of \(4 - (7 - 6 + 2)\) is...........
\[
4 - (7 - 6 + 2) = 7
\]
(1) 8 (2) 2 (3) \(\frac{7}{2}\) (4) 0

92. Two pipes can fill a water tub in 5 minutes and 7 minutes respectively. A third pipe can empty it in 3 minutes. If all three pipes are kept open simultaneously, then the part of the tub that can be filled in one minute is......
\[
\text{Let the full tub be 1 unit. Then, the part filled in one minute is:}
\]
\[
\frac{1}{5} + \frac{1}{7} - \frac{1}{3} = \frac{1}{105}
\]
(1) \(\frac{12}{35}\) (2) \(\frac{10}{21}\) (3) \(\frac{41}{105}\) (4) \(\frac{1}{105}\)

93. 80 apples are distributed among A, B and C in the ratio 2 : x : 4. If both A and C together got 60 apples, then the value of x is............
\[
80 \text{ apples} \quad A \quad B \quad C = 2 : x : 4
\]
\[
\text{A and C together got 60 apples:}
\]
\[
\frac{2}{2+x+4} = \frac{60}{80}
\]
(1) 4 (2) 1 (3) 2 (4) 3

94. The average of the first 5 consecutive even numbers and the first 3 consecutive prime numbers is............
\[
\text{First 5 consecutive even numbers:} 2, 4, 6, 8, 10\]
\[
\text{First 3 consecutive prime numbers:} 2, 3, 5\]
\[
\text{Average:} \frac{2 + 4 + 6 + 8 + 10 + 2 + 3 + 5}{8} = \frac{35}{8}
\]
(1) 4 (2) 4.75 (3) 3.7 (4) 5

95. The number of axes of symmetry of an equilateral triangle are............
\[
\text{An equilateral triangle has 3 axes of symmetry.}
\]
(1) 4 (2) 2 (3) 3 (4) 1

96. In a pie-diagram, different values are represented by......
(1) rectangles (2) squares (3) circles (4) sectors

97. One of the following pairs is a co-prime.
\[
\text{Co-prime means the numbers have no common factors other than 1.}
\]
\[
\text{(1) 14, 9 (2) 9, 12 (3) 27, 21 (4) 14, 16}
\]
98. If \( \left( \frac{5}{2} \right)^2 \times \left( \frac{5}{2} \right)^{a+b} = \left( \frac{2}{5} \right)^{-8} \), then the value of \( a \) is ..........

\( \left( \frac{5}{2} \right)^2 \times \left( \frac{5}{2} \right)^{a+b} = \left( \frac{2}{5} \right)^{-8} \) \( \Rightarrow a+b = -8 \)  

(1) 3
(2) \(-15\)
(3) \(-1\)
(4) 1

99. A vehicle travels 14 kms in 25 minutes. If its speed remains the same, then the distance travelled in 5 hours is (in kms), ...........

\( \frac{25 \text{ minutes}}{14 \text{ kms}} = \frac{14 \text{ mins}}{x} \)  

5 hours = 300 minutes  

(1) 160
(2) \(-168\)
(3) 537
(4) 540

100. The length, breadth and height of a room is 8 m, 6 m and 5 m respectively. Then the total area of four walls is (in sq.m) ...........

\( 2(8 \times 6 + 6 \times 5 + 5 \times 8) \)  

(1) 120
(2) 240
(3) 140
(4) 280

101. If the angles of a triangle are in the ratio 1 : 2 : 7; then the triangle is .......

(1) an acute angled triangle
(2) an obtuse angled triangle
(3) a right angled triangle
(4) an equilateral triangle

102. If a bar graph is drawn to 1 cm = 10 units, then the length of the bar representing a quantity of 52 units is (in cms) ...........

\( \frac{52 \text{ units}}{10 \text{ units/cm}} = 5.2 \text{ cm} \)  

(1) 5.2
(2) 0.25
(3) 2.5
(4) 0.52

103. The least number that leaves the remainders 5, 7 and 18 when divided by 8, 10 and 21 respectively is ...........

8, 10, 21 \( \Rightarrow \) \( 840, 837, 873 \)  

(1) 840
(2) 837
(3) 873
(4) 804
104. If \( 1 - \frac{4}{x} + \frac{4}{x^2} = 0 \), then the value of \( \frac{2}{x} \) is ..............

\[ 1 - \frac{4}{x} + \frac{4}{x^2} = 0 \text{ becomes } \frac{2}{x} = ... \]

(1) -1  
(2) 0  
(3) 1  
(4) \( \frac{1}{2} \)

105. The car parking charges are given as:

a) Rs. 60 for 4 hours  
b) Rs. 100 for 8 hours  
c) Rs. 260 for 24 hours  
d) Rs. 180 for 12 hours

Which one of the following pairs is in proportion?

(1) 4 \( \frac{\text{Rs}}{\text{hours}} \) 60  
(2) 8 \( \frac{\text{Rs}}{\text{hours}} \) 100  
(3) 24 \( \frac{\text{Rs}}{\text{hours}} \) 260  
(4) 12 \( \frac{\text{Rs}}{\text{hours}} \) 180

106. Bangalore Express started at 19.00 hours from Kachiguda and reached Bangalore at 07.15 hours on the next day. Then the time taken for the journey is ...........

(1) 12 hours and 15 minutes  
(2) 11 hours and 15 minutes  
(3) 10 hours and 15 minutes  
(4) 13 hours and 15 minutes

107. The base of a cylinder is ............

(1) parabolic  
(2) elliptical  
(3) circular  
(4) semicircular

108. If \((4x)^3 = 4^3\); then the value of \(x\) is ............

\((4x)^3 = 4^3 \) \( \Rightarrow 4^3 \times x^3 = 4^3 \) \( \Rightarrow x^3 = 1 \) \( \Rightarrow x = 1 \)

(1) 4^6  
(2) 4^8  
(3) 4^3  
(4) 4^{24}
109. If \( \frac{100}{99} \) is written as a repeating and nonterminating decimal fraction, then its periodicity is ...........

\( \frac{100}{99} \) ఈ పరిష్కారాలు మరియు ప్రభుత్వ పుష్పించిన దశాంశ పదార్థం

(1) 3  
(2) 2  
(3) 10  
(4) 1

110. A man buys a scooter for Rs. 4,700 and spends Rs. 800 on its repairs. If he sells the scooter for Rs. 5,800, then his gain percent is ...........

లేదా 4,700 సాధారణం మరియు 800 రూ. పంచంత్రికులు చేస్తాను తెలుసు. అప్పుడు సాధారణం 5,800 రూ. విక్రమం చేస్తాను, త్యా విద్యుత్పాతి ఉపయోగించబడి ఉండును అంటాలా?

(1) \( \frac{4}{7} \)  
(2) \( \frac{5}{11} \)  
(3) 10  
(4) 12

111. If the volume of a cube is 1,728 cu. cms., then its side (in cms) is ...........

సమస్య ప్రశ్నా మరియు 1,728 ముఖం క్షీణం చేస్తాను (ముఖం ప్రధానం)

(1) 14  
(2) 12  
(3) \( \sqrt{13} \)  
(4) 16

112. The value of \( 3.\overline{6} - 0.\overline{8} \) is ...........

\( 3.\overline{6} - 0.\overline{8} \) విలుపు ఉండును.

(1) 2.\( \overline{8} \)  
(2) 2.\( \overline{6} \)  
(3) 2.\( \overline{5} \)  
(4) 2.\( \overline{7} \)

113. The value of \( \frac{39}{26} + \frac{13}{52} + \frac{5}{9} \) is ...........

\( \frac{39}{26} + \frac{13}{52} + \frac{5}{9} \) విలుపు ఉండును.

(1) \( \frac{29}{25} \)  
(2) \( \frac{39}{5} \)  
(3) \( \frac{54}{5} \)  
(4) \( \frac{5}{54} \)

114. If two sides of a triangle are 8 cm and 11 cm, then its possible third side is (in cms) ...........

ముఖాను ఎక్కడ 8 సమయం మరియు 11 సమయం, అప్పుడు తెలుసు (సమయం సమయం)

(1) 4  
(2) 2  
(3) 3  
(4) 1
115. The mathematician who first declared that the approximate value of the constant ratio between the circumference and diameter of a circle is 3.1416 is .......... 
(1) Varahamihir 
(2) Bhaskaracharya 
(3) Aryabhata 
(4) Srinivasa Ramanujan

117. A person takes a loan of Rs. 10,000 from a bank at 12% rate of interest to purchase a motorcycle. If he wants to repay the loan after 3 years, how much amount has he to pay? The method to be adopted to teach this problem is the .......... 
(1) deductive method 
(2) analysis–synthesis method 
(3) problem solving method 
(4) inductive method

116. "Student shows fractions on a number line". This specification relates to the objective of .......... 
(1) knowledge 
(2) understanding 
(3) application 
(4) skill

118. The use of domino cards in the Mathematics kit is that students can ............ 
(1) write numbers 
(2) do multiplication 
(3) draw parallel lines 
(4) do addition and subtraction

W-101/TET-111-EM/TM
119. The type of questions suitable to test definitions and properties in Mathematics is ............

(1) objective type  
(2) short answer type  
(3) essay type  
(4) very short answer type

120. The school Mathematics club facilitates more for .............

(1) the teacher to improve his professional competency  
(2) the preparation of various school records  
(3) the teacher to complete the syllabus in extra hours  
(4) the students to clarify their doubts in Mathematics

(1) ఉత్సాహం కలిగి కూడా విద్యార్థి పఠన సాధనాలను పూర్తి పాటు చేయడానికి  
(2) నాటికి ఉపత్యోగం కలిగిన విద్యార్థి పఠన సాధనాలను పూర్తి పాటు చేయడానికి  
(3) విద్యాధరులకు విద్యాధరులకు శాస్త్ర పఠన సాధనాలను పూర్తి పాటు చేయడానికి  
(4) విద్యాధరులకు విద్యాధరులకు పఠన సాధనాలను పూర్తి పాటు చేయడానికి
121. Locate the true statements with respect to a 'hinge joint'.
A) It allows the forearm to bend forward only
B) It allows the forearm to bend backward only
C) It allows the knee to bend backward only
D) It allows the knee to bend forward only

122. Identify the mismatch.
A) Incisors - biting and cutting
B) Canines - grinding
C) Premolars - chewing
D) Molars - tearing

123. Number of umpiring officers in a Kabaddi game is ...........
(1) 2
(2) 4
(3) 6
(4) 8

124. Identify the correct statements related to 'cross-pollination'.
A) Occurs only in unisexual flowers
B) The pollen grains of the flower can reach the ovule of the same flower
C) Needs the help of pollinating agents
D) Seeds produced are often more healthy than the seeds produced by self-pollination
125. In the life history of a frog, the hormone that initiates the process of metamorphosis is .................
(1) Adrenaline  
(2) Aldosterone  
(3) Cortisol  
(4) Thyroxin

126. While running, the heartbeat speeds up. The nervous system responsible for this is the ............
(1) central nervous system  
(2) sympathetic nervous system  
(3) peripheral nervous system  
(4) parasympathetic nervous system

128. A doctor advised a patient to take citrus fruits regularly because the patient is suffering from ............
(1) red rashes on the body  
(2) crooked legs  
(3) swelling and bleeding of gums  
(4) cough with sputum

129. In the process of preparation of cement, the products formed when pulverized limestone and clay are heated are .................
(1) calcium silicates and calcium aluminates  
(2) calcium silicates and calcium bicarbonate  
(3) ferrous silicates and ferrous aluminates  
(4) ferrous carbonates and ferrous bicarbonates
130. It is found that in a particular area, the proportion of atmospheric nitrogen is found less. Identify the reason.
(1) More animals are present
(2) Ground water is more
(3) Plants bearing root nodules are present abundantly
(4) Decomposers are less

131. The diseases communicable by air are
(1) diphtheria, typhoid
(2) rubella, flu
(3) filaria, tuberculosis
(4) conjunctivitis, malaria

132. Hard water does not give a lather with soap because
(1) it is highly coloured
(2) it contains suspended impurities
(3) it contains sodium chloride
(4) it contains carbonates of calcium and magnesium

133. The minimum age limit for election to the post of a sarpanch, grama panchayat member, mandal parishad territorial constituency (MPTC), and member of zilla parishad territorial constituency (ZPTC) is
(1) 18 years for grama sarpanch and MPTC member and 21 years for ZPTC member
(2) 18 years for all grama sarpanch, MPTC and ZPTC members
(3) 18 years for grama sarpanch, 21 years for MPTC and ZPTC members
(4) 21 years for all grama sarpanch, MPTC and ZPTC members
134. Ramaiah has a son and a daughter. The daughter has a daughter. The relationship between Ramaiah's son and daughter's daughter is ...........
(1) uncle – niece
(2) grandfather – granddaughters
(3) brother-in-law – sister-in-law
(4) brother – sister

135. The area of Andhra Pradesh is ......
(1) 2,57,045 sq. kms.
(2) 2,77,504 sq. kms.
(3) 2,75,045 sq. kms.
(4) 2,70,455 sq. kms.

136. In the Braille script, the English letter, "I," can be identified with which of these raised round marks?
(1) Left middle and right top raised round marks
(2) Left top and right middle raised round marks
(3) Left top and right top raised round marks
(4) Raised round marks on the left top and left bottom

137. The shortest and longest days in a year are ........
(1) 21st March and 22nd December
(2) 21st June and 23rd September
(3) 23rd September and 21st June
(4) 22nd December and 21st June
138. For this reason, the Krishna river flows towards the East.
(1) Malwa plateau is slightly slanted towards the East.
(2) Malwa plateau is slightly slanted towards the South.
(3) Deccan plateau is slightly slanted towards the East.
(4) Deccan plateau is slightly slanted towards the West.

139. In this year, our national anthem, 'Jana Gana Mana' was first sung.

140. The statement that relates to migration is .................
(1) Naresh went to Dubai in 2005 for employment and settled there.
(2) Ramaiah's family goes to district headquarters for labour work in the winter season and returns to his village at the outbreak of the monsoon.
(3) Raheem went to America to study higher education and returned to India after 2 years.
(4) Budege Jangam caste people of Cherlapalli leave the village before Sankranti festival and return to their village in the month of June.
141. Read the following statements:
   i) Ghat roads are laid on hills.
   ii) Metal roads save fuel.
   iii) Journey is comfortable on tar roads.
   iv) Laying cement roads is inexpensive.

   Identify the incorrect statements.

   (1) i, iii
   (2) ii, iv
   (3) ii, iii
   (4) i, iv

142. Dhaka, the capital of Bangladesh, is located on 90° East longitude. When the time is 6.00 am in Dhaka, the Indian standard time and Greenwich mean time are respectively ............

   (1) 6.30 am; 3.00 am
   (2) 6.00 am; 2.00 am
   (3) 5.00 am; 1.00 am
   (4) 5.30 am; 12.00-midnight

143. These are the fundamental duties and fundamental rights respectively.

   (1) Protect the environment; a citizen can live in any part of the country
   (2) Seeking justice through courts of law; a citizen can receive education
   (3) Protecting national integration; paying the taxes on time
   (4) A citizen can follow any religion; paying the taxes on time.

144. The earliest Europeans who came to India for spices were ............

   (1) Britishers only
   (2) Portuguese and Romans
   (3) Portuguese only
   (4) Britishers and Greeks

   (1) 6.30 am; 3.00 am
   (2) 6.00 am; 2.00 am
   (3) 5.00 am; 1.00 am
   (4) 5.30 am; 12.00 am
145. The concept of environmental studies is ............
   (1) direction oriented
   (2) action oriented
   (3) knowledge oriented
   (4) thought oriented

146. The teaching of environmental studies at the primary level aims at making a student to become a prudent consumer. The principle involved in it is the ............
   (1) principle of child centeredness
   (2) principle of conservation
   (3) principle of elasticity
   (4) principle of activity centeredness

147. The topics like 'changes in the seasons and climates, measurement of temperature and pressure of the atmosphere' are best examples for correlating between these subjects.
   (1) Geograpy and the atmosphere
   (2) Humidity and the atmosphere
   (3) Science and Geography
   (4) Geography and the environment

148. The main purpose of learning experiences is to ............
   (1) build a rapport between the student and the content
   (2) build a rapport between the student and the teacher
   (3) build a rapport between the student and the classroom
   (4) build a rapport between the student and the local environment
149. The preparation of a standardized test is based on
(1) objective based teaching
(2) content based teaching
(3) type of the teaching-learning material used
(4) method of teaching adopted

150. Suspended judgment is a characteristic of a person who possesses
(1) future vision
(2) reflexive thinking
(3) scientific attitude
(4) reasoning and judging ability