

CENTRE FOR EDUCATIONAL DEVELOPMENT OF MINORITIES

OSMANIA UNIVERSITY

Minority Welfare Department, Government of Telangana
Nizam College Campus, Gunfoundry, Hyderabad – 500 001.

TG TET – 2024 – II Free Coaching Programme

Marks / Questions: 150

MODEL TEST

Duration: 2 Hours 30 Minutes

PAPER – II MATHEMATICS & SCIENCE (ENGLISH MEDIUM)

CHILD DEVELOPMENT AND PEDAGOGY

- One of the following methods help to study the children with special needs
(1) Experimental Method (2) Interview Method
(3) Introspection Method (4) Case Study Method
- A student of class VIII got habituated to study only to gain rewards. This is an example for
(1) Both S–R and R–S conditioning theory (2) Operant conditioning theory
(3) S–R conditioning theory (4) R–S conditioning theory
- The period of development during which the child is in dilemma of being a child or an adult
(1) adulthood (2) adolescence (3) late childhood (4) early childhood
- The following concept is the product of both maturation and learning
(1) Development (2) Growth (3) Personality (4) Knowledge
- Motor development is closely related with
(1) Physical development (2) Mental development
(3) Quantity development (4) Quality development
- The following development stage is characterized by friendship with age mates
(1) Late childhood (2) Middle childhood (3) Early childhood (4) Adulthood
- What the child learns, will depend on how parents gratify the child's need for food, attention and love. This according to
(1) Freud (2) Maslow (3) Erikson (4) Piaget
- The development stage whose period is from the second week to the end of the second year
(1) Infancy (2) Early childhood (3) Late Childhood (4) Babyhood
- Cognitive process is mainly related to

- (1) Knowledge (2) Understanding (3) Emotional development
(4) Information processing
10. Assimilation + Accommodation = ?
(1) Retention (2) Knowledge (3) Adoption (4) Perception
11. The final stage of thinking is
(1) Sensory motor stage (2) Formal operational stage
(3) Pre-operational stage (4) Concrete operational stage
12. Kohlberg developed his theories based on
(1) Dilemmas (2) Schemas (3) Discourses (4) Dialogue
13. The principles and parameters approach developed by Chomsky published as
(1) Lectures on government and bindings (L&B)
(2) The syntactic structure (3) Generative Grammar
(4) Citric on skinner
14. The theory which says that attitude can be formed and changed through the use of learning principles such as classical conditioning, operant conditioning and observational learning
(1) Dissonance theory (2) Learning theory
(3) Resonance theory (4) Developmental theory
15. According to Roger the person who wants to achieve self actualization, he must be in the stage of
(1) self defence (2) self image (3) congruence (4) integrity
16. Which of the following interests contribute to reduce the mental tensions
(1) social (2) personal (3) intellectual (4) recreational
17. According to Alfred Binet intelligence refers to
(1) good sense (2) superiority (3) bravery
(4) problem solving ability
18. The word personality derived from word 'persona'
(1) Greek (2) Latin (3) French (4) Russian
19. Which of the following is a disorder not caused by biological factors
(1) Genetics (2) Chemical imbalance in the body
(3) Stress at working place (4) Damage of CNC
20. Freud studies are best examples of
(1) Introspection (2) Observation (3) Interview (4) Case study
21. Which of the following is not an example of non-associative learning
(1) Associative learning (2) Habituation
(3) Sensitization (4) None of these

22. The child should be taught to listen initially and then to proceed speech, read and write. The underlying principle behind the approach is ____
 (1) Law of effect (2) Law of reading (3) Law of exercise (4) Law of insight
23. Gestalt which means total configuration is a
 (1) Greek word (2) Latin word (3) German word (4) Russian word
24. In behaviourism a negative stimulus means
 (1) A gift (2) A punishment
 (3) A stimulus that affect negatively on the lecturer
 (4) Not having any stimulus
25. The students who are different from ordinary students and positive or negative towards practise are
 (1) students with more intelligence (2) student with less intelligence
 (3) student with special needs (4) ordinary students
26. Who said that learning improves through collective activities?
 (1) Pavlov (2) Thorndike (3) Skinner (4) Vygotsky
27. Who suggested multiple text books to students?
 (1) Yashpall Committee (2) Ramamurthy Committee
 (3) NPE – 1986 (4) NCF – 2005
28. Identify the correct among the following.
 (1) Curriculum is more extensive than syllabus
 (2) Curriculum is syllabus
 (3) Lesson plan is syllabus
 (4) Syllabus is extensive than any other
29. First step in teaching stages
 (1) Selecting the lesson (2) Selecting the teaching aptitude
 (3) Selecting the students (4) Selecting the teaching aids
30. After negotiations and before taking decision
 (1) Reality must be taken into account
 (2) No need to take reality to take into account
 (3) There is no need to follow a method
 (4) There is no need to give opportunity

LANGUAGE – I : URDU

31-36 دی گئی نظم پر ہر سوال کے جوابات دیجئے۔

فقیرانہ آئے صدا کر چلے
میاں خوش رہو ہم دعا کر چلے
شفا اپنی تقدیر ہی میں نہ تھی
کہ مقدور تک تو دعا کر چلے
وہ کیا چیز ہے، اہ، جس کے لئے
ہر اک چیز سے دل اٹھا کر چلے
جبیں سجدہ کرتے ہی کرتے گئی
حق بندگی ہم ادا کر چلے
کہیں کیا جو پوچھے کوئی ہم سے میر
جہاں میں تم آئے تھے کیا کر چلے

31. 'دعا'، 'دوا' الفاظ کہلاتے ہیں۔

(1) ردیف (2) قافیہ (3) مطلع (4) مقطع

32. شاعر کی تقدیر میں کیا نہیں؟

(1) دوا (2) دعا (3) شفا (4) ادا

33. جبیں کے معنی

(1) رُخ (2) گال (3) پیشانی (4) ہونٹ

34. میر نے کیسا مزاج پایا؟

(1) امیرانہ (2) فقیرانہ (3) رئیسانہ (4) درویشانہ

35. شاعر نے حق بندگی کس طرح ادا کیا؟

(1) صدا دیتے ہوئے (2) دوا دیتے ہوئے (3) سجدہ کرتے ہوئے (4) دعا کرتے ہوئے

36. 'جہاں میں تم آئے تھے کیا کر چلے' اس شعر کا مصرعہ ہے۔

(1) مطلع کا (2) شاہ بیت کا (3) حسن مطلع کا (4) مقطع کا

37-42 دیکر گئے پیرا گراف کو پڑھ کر سوالات کے جوابات دیجئے۔

غالب، ذوق، مومن آس پر آشوب دور کے شعراء ہیں جس میں ہنگامہ غدر نے رہی سہی شاہی بساط بھی اُلٹ کی تھی۔ ان شعرا کے لفظ لفظ میں سوز و گداز اور حروف حروف میں درد مندانہ کیفیت موجود ہے۔ جو بات کہتے ہیں دل سے نکلی ہوئی ہے اور اثر میں ڈوبی ہوئی ہے۔ ان کا عشق سچا ہے، ان کا معشوق حسن ہے، کوئی حسین نہیں۔ تعریف حسن کی ہے کسی حسین کی نہیں۔ غرض یہ کہ عشق و حسن کے ظاہری لوازمات پرین کی نظر نہیں ٹھرتی۔ دہلی کے شعراء کے کلام میں داخلیت کا غلبہ بھرپور نظر آتا ہے۔ جذبات میں شدت اور روحانیت پائی جاتی ہے۔ زبان میں سادگی، متانت، اختصار، فارسی ترکیبیں اور شکستگی بھی پائی جاتی ہے۔ دہلی میں شاعری اپنی مصنوعی حیثیت سے ایسی پینادوں پر کھڑی ہوتی ہے جو انسانی زندگی کے ساتھ ہمیشہ وابستہ اور قائم رہنے والی ہے۔ دبستان دہلی میں ایسی کیفیت ہے جو ہمیشہ لطف دینے والی، ہمیشہ قائم رہنے والی اور ہمیشہ نئے رنگ و روپ دینے کی ضرورت ہے۔ دہلی کا اس زمانے کا ماحول تعزل کے لئے بے حد موزوں تھا۔ دہلی کو پوری فضاء غزل کے نغموں سے گونج اٹھی اور اس دبستان شاعری میں داخلیت کا عنصر زیادہ ہے۔

37. دبستان دہلی کے ایک شاعر
(1) ناسخ (2) آتش (3) دبیر (4) مومن
38. دبستان دہلی میں اس بات کا عنصر زیادہ ہے۔
(1) داخلیت (2) خارجیت (3) حیثیت (4) معنویت
39. 'بساط' کے لغوی معنی
(1) وساطت (2) انبساط (3) وسعت (4) چوسر اور شطرنج کا کپڑا یا تختہ
40. دبستان دہلی کی شاعری معنوی حیثیت سے ان بنیادوں پر کھڑی ہے۔
(1) انسانی زندگی کے ساتھ دیر پا قائم نہیں رہنے والی
(2) انسانی زندگی کے ساتھ ہمیشہ وابستہ اور قائم رہنے والی
(3) غدر کے حالات پر ہی قائم رہنے والی
(4) وقت اور حالات کے ساتھ بدلنے والی
41. غدر کے حالات اور دہلی کا زمانہ اس صنف کے لئے بہت موزوں تھا۔
(1) قصیدہ (2) غزل (3) مرثیہ (4) مثنوی
42. دبستان دہلی سے وابستہ شعراء کے کلام میں حرف حرف یہ کیفیت ملتی ہے۔
(1) عقیدت مندانہ کیفیت (2) رعب اور دبدبہ والی کیفیت (3) درد مندانہ کیفیت (4) غنائی کیفیت
43. صحیح جوڑ کی نشاندہی کیجئے۔
(1) مخدوم - عہد وفا (2) اختر الایمان - یادیں (3) حفیظ جالندھری - گل تر (4) فراق - سوز و ساز
44. قصیدے کے اجزائے ترکیبی ہیں۔
(1) تشبیب، گریز، مدح، دعا اور دعا (2) تشبیب، گریز، مدح، چہرہ (3) تشبیب، سراپا، رجز (4) تشبیب، گریز، آمد، چہرہ، سراپا
45. شاعر انقلاب شاعر فطرت شاعر شباب کے نام سے جانے جاتے ہیں۔
(1) فراق (2) حسرت (3) زہر (4) جوش

46. چاقو۔ ہتھوڑا۔ دانٹی۔ کف گیر۔ چمچہ وغیرہ
(1) اسم کیفیت (2) اسم ظرف (3) اسم آلہ (4) اسم جمع
47. مثال: اگر احمد کتاب لایا ہوتا تو میں اسے پڑھ لیتا وہ ہے جس میں فعل کے ہونے کی شرط تمننا پائی جائے۔
(1) ماضی بعید (2) ماضی شرطیہ (3) ماضی شکلیہ (4) ماضی مطلق
48. اس شعر میں کون سی صنعت پائی جاتی ہے۔
صبح ہوتی ہے شام ہوتی ہے
عمریوں ہی تمام ہوتی ہے
(1) تشبیہ (2) تضاد (3) استعارہ (4) تلمیح
49. "گھر سے نکلو جلدی جاؤ" اس جملے میں سے "ہے۔"
(1) حرف عطف (2) حرف ربط (3) حرف تخصیص (4) حرف فیائیہ
50. سبق "دیا سلائی" ہے۔
(1) خط (2) نظم (3) انشائیہ (4) قصیدہ
51. حروف قمری کی نشاندہی کیجئے
(1) ڈاکر ذاکر حسین - چودہ کہانیاں
(2) شوکت تھانوی - چراغ تلے
(3) سرسید احمد خاں - غبارِ خاطر
(4) مشتاق احمد یوسفی - مونج تبسم
52. حروف قمری کی نشاندہی کیجئے۔
(1) وڈرز (2) س ش ص ض (3) ط ظ ل ن (4) اب ج ح
53. مثنوی "مرغ اور صیاد" کس نے شاعر کا ہے۔
(1) حالی (2) دیا شنکر نسیم (3) مرزا غالب (4) علامہ اقبال
54. شعری مجموعہ "تراشیدہ" کس شاعر ہے۔
(1) شاہ تمکنت (2) مخدوم محی الدین (3) مرزا غالب (4) علامہ اقبال
55. ایک طالب علم الفاظ محاوروں اور ضرب المثل کا مفہوم سمجھتا ہو تو اردو تدریس کے اس ادا کی مقصد کی تکمیل ہوتی ہے۔
(1) ترکیب (2) معلومات (3) تفہیم (4) اطلاق
56. لنگو افون ہے۔

- (1) مشاعروں کی سی ڈیز بتلانے والا آلہ
(2) تلفظ درست کرنے کا آلہ
(3) عکس کو پردے پر بڑا کر کے دکھانے والا آلہ
(4) پروگرام کو راست نشر کرنے والا آلہ
57. "معلومات کا باب الداخلہ" کہتے ہیں۔
(1) حواس (2) ذہن (3) کمپیوٹر (4) کتاب
58. اس طریقہ میں سب سے پہلے حروف تہجی کے نام سکھائے جاتے ہیں۔ اور پھر حروف کی شناخت کروائی جاتی ہے۔
(1) ابجدی طریقہ (2) صوتی طریقہ (3) موتیاتی طریقہ (4) اجزائی طریقہ
59. طلباء کو واقعات و مشاہدات فراہم کئے جاتے ہیں تاکہ وہ ان کے درمیان فرق و موازنہ کے ذریعے ملکیاتوں اور فرق کو پہنچائیں اور اس ذریعے سے حقیقت تک پہنچنے میں کامیاب ہوں۔ تدریس کا یہ طریقہ کہلاتا ہے۔
(1) استخراجی طریقہ (2) استقرائی طریقہ (3) مسائلی طریقہ (4) ترجمہ کا طریقہ
60. ذیل میں سہ ابعادی آلہ تدریس کی مثال ہے
(1) چارٹ (2) تصاویر (3) ماڈل (4) گراف

LANGUAGE II ENGLISH

61. The boy laughed at the beggar. The passive form of it is:
(1) The beggar was laughed at by the boy
(2) The beggar was laughed by the boy
(3) The beggar was being laughed at by the boy
(4) The beggar was being laughed by the boy
62. It interests me. This sentence can be rewritten as:
(1) I am interested in it (2) I have been interested in it
(3) I will be interested in it (4) I was interested in it
63. I said to him, "Why are you working so hard"?
It can be reported as
(1) I asked him way he had been working so hard
(2) I asked him why he was working so hard
(3) I asked him why was he working so hard
(4) I asked him why had he been working so hard

In his autobiography, he remembers his wife as an everyday heroine who epitomised selflessness and stood for the victory of mind over matter. He honoured this character of Indian women and dedicated a book, titled "Religion and Society" to them.

A dutiful teacher, a deeply spiritual thinker, an able policymaker, Radhakrishnan was every bit the visionary India needed. Nobel laureate C.V. Raman beautifully summed up his glorious life, "The frail body of Radhakrishnan enshrined a great spirit-a great spirit which we have learnt to revere and admire, even to worship"

64. How do great men affect the integration of mind, body and soul?
 (1) Through freedom
 (2) Through their wise words
 (3) Through their message of peace and love
 (4) Through their integration of body and mind
65. Mahatma Gandhi called himself the _____ of Radhakrishnan.
 (1) Teacher (2) Lord Krishna (3) Arjun (4) Friend
66. Radhakrishnan remembers his wife as _____ in his autobiography.
 (1) a mother (2) his inspiration (3) an everyday heroine
 (4) Indian woman
67. Name of the book written by Radhakrishnan that was dedicated to the selflessness of Indian women:
 (1) Indian Women (2) An Everyday Heroine
 (3) Autobiography (4) Religion and Society
68. According to Gandhiji, what made his and the people admire Radhakrishnan ?
 (1) his policies (2) frail body (3) a great spirit (4) his vision
69. Identify the complex sentence from the following
 (1) We read books but they watch T.V.
 (2) If you search for it in the school, you will get it.
 (3) You go there or they will not give you.
 (4) She is not only good in English but also good at Maths
70. He woke up to hear the sound of bells..... in the distance.
 Choose the right option to fill in the blank.
 (1) clanging (2) banging (3) buzzing (4) whistling
71. Identify the phrase containing Noun + Noun.
 (1) strong light (2) shed light (3) a light source (4) a ray of light
72. John hates women. He is a
 (1) Misogynist (2) Polyglot (3) Prodigy (4) mercenary
73. There's Use in complaining. They won't do anything about it.
 Choose the correct answer:
 (1) a little (2) little (3) a few (4) few
74. Ramesh has two brothers, but he doesn't speak to of them.
 Choose the correct answer:
 (1) either (2) neither (3) both (4) any
75. What was in the box?
 Choose the correct answer to complete the sentence:
 (1) you did think (2) you had thought (3) did you think that (4) did you think

76. I am annoyed _____ him _____ what he has done to us.
Choose the correct answer to complete the sentence:
(1) with, for (2) for, with (3) with, from (4) for, from
77. The expression 'to turn over a new leaf' means:
(1) To change one's behaviour for the better
(2) To take a decision
(3) To read something carefully
(4) To be cautious
78. He eats _____ banana every morning.
(1) a (2) the (3) any (4) an
79. Tomorrow, there is a meeting in our school. Come early, _____?
(1) do you (2) don't you (3) will you (4) won't you
80. Identify the correct question. grammatically
(1) What height is Mount Everest? (2) How tall is Mount Everest?
(3) How much height is Mount Everest? (4) How high is Mount Everest?
81. Choose the correct word to fill in the blank in the sentence.
Copper is _____ useful metal.
(1) a (2) an (3) the (4) any
82. I like singing.
In the above sentence, 'singing' is:
(1) a present participle (2) a gerund
(3) a past participle (4) a modal verb
83. Sindhu said to Ganesh, "Are you fine?"
The conjunction that can be used to change this sentence into indirect speech is:
(1) whether (2) that (3) who (4) when
84. Choose the correct 'Yes / No' question.
(1) Does he reads novels? (2) Are you read novels?
(3) Won't you come here? (4) Do you are a student?
85. It's time you to bed. go Choose the correct verb that fits the context.
(1) went (2) will (3) go (4) had gone
86. The General Service List of English words (GSL) is associated with:
(1) Bilingual method (2) Grammar translation method
(3) Dr. West's new method (4) Direct method
87. The process of determining the changes in behaviour through instruction is :
(1) Test (2) Evaluation (3) Measurement (4) Assessment
88. Remedial teaching is

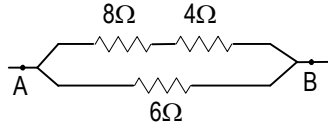
- (1) nothing but re-teaching.
 (2) something where achievement is expected to be very low.
 (3) need not be highly specific and need based.
 (4) more like a crash course.
89. Listening to public speeches belongs to
 (1) Focused listening (2) Gist listening
 (3) Appreciative listening (4) Casual listening
90. One of the following helps us to get a bird's eye view of the book. Identify it.
 (1) Jacket (2) Front page (3) Blurb (4) The preface

MATHEMATICS AND SCIENCE

91. The perimeter of a semicircle is 36 cm, its diameter (in cms) is
 (1) 7 (2) 22 (3) 14 (4) 35
92. If $\frac{b}{a} = 2$, $\frac{c}{b} = 3$, then the value of $\frac{a+b}{b+c}$ is
 (1) $\frac{3}{4}$ (2) $\frac{2}{3}$ (3) $\frac{3}{8}$ (4) $\frac{3}{2}$
93. The value of $\sqrt{1.44 \times 6.25 \times 1.69}$ is
 (1) 3.9 (2) 9.3 (3) 6.3 (4) 3.6
94. In a $\triangle ABC$, if $\angle A = 90^\circ$ and $\angle B = 2\angle C$, the $\angle C$ is
 (1) 15° (2) 30° (3) 45° (4) 90°
95. The vertices of a $\triangle ABC$ are (2, 3) (-1, 0) and (1, -4) respectively, then the length of the median through vertex A is (in units)
 (1) $\sqrt{29}$ (2) 6 (3) $\sqrt{10}$ (4) 5
96. A car takes 6 hours to reach the destination by travelling at a speed of 45 km/h, then the time taken on (hours) by the car if it travels at a speed of 80 km/h is
 (1) $3\frac{1}{8}$ (2) $3\frac{7}{8}$ (3) $3\frac{3}{8}$ (4) $3\frac{5}{8}$
97. For equal circles, each of radius 14 cm touch one another, then the area (in sq cm) formed between them is (take $\pi = \frac{22}{7}$)
 (1) 84 (2) 168 (3) 315 (4) 157.5
98. Two dice are thrown simultaneously then the probability that the sum of the two numbers appearing on the top of the dice as a prime numbers is
 (1) $\frac{7}{36}$ (2) $\frac{2}{9}$ (3) $\frac{5}{12}$ (4) $\frac{5}{36}$

99. If $\sec A + \tan A = x$ ($0^\circ \leq A \leq 90^\circ$) then the value of $\sin A$ is
 (1) $\frac{1-x^2}{1+x^2}$ (2) $\frac{1+x^2}{1-x^2}$ (3) $\frac{x^2-1}{x^2+1}$ (4) $\frac{x^2+1}{x^2-1}$
100. $(81)^{-1} \times 3^{-5} \times 3^9 \times (64)^{\frac{5}{6}} \times (\sqrt[3]{3})^6 =$
 (1) $2^5 \times 3^2$ (2) $2^{-2} \times 3^{-2}$ (3) $3^{-18} \times 2^5 \times 3^2$ (4) $3^{18} \times 2^5 \times 3^2$
101. When measurements of two diagonals are given, then the quadrilateral that can be constructed is
 (1) Trapezium (2) Rhombus (3) Rectangle (4) parallelogram
102. Choose the shape having unlimited number of lines of symmetry
 (1) rectangle (2) square (3) isosceles triangle (4) circle
103. Let A and B be any two sets, then which of the following is false
 (1) $A - (A \cap B) = A - B$ (2) $(A - B) \cup (A \cap B) = A$
 (3) $(A - B) \cap (B - A) = \phi$ (4) $(A - B) \cup A = B$
104. The angle of elevation of the top of a building from the foot of a tower is 30° and the angle of elevation of the top of the tower from the foot of the building is 60° . If the tower is 50 meters high then the height of the building in meters is
 (1) 50 (2) $\frac{50}{3}$ (3) $50\sqrt{3}$ (4) $\frac{50}{\sqrt{3}}$
105. If the linear equation $3x + by + c = 0$ and $ax - 2y + 12 = 0$ represent the same straight line then $a + b + c =$
 (1) 5 (2) 13 (3) -13 (4) 12
106. If AP and AQ are tangents drawn from an external point A to a circle with centre C and radius 8 cm and $AC = 17$ cm, then $AP + AQ =$
 (1) 15 cm (2) 25 cm (3) 30 cm (4) 36 cm
107. A hemisphere and a cone have equal bases. If their heights are also equal then the ratio of their curved surfaces will be
 (1) 2 : 1 (2) 3 : 1 (3) $\sqrt{2} : 1$ (4) $\sqrt{3} : 1$
108. A sum of Rs.12,500 amounts to Rs.15,500 in 4 years at the rate of simple interest the rate of interest is
 (1) 6% (2) 5% (3) 4% (4) 3%
109. If AD , BE are medians of $\triangle ABC$ and F is a point on AC such that DF parallel to BE then $CF : AC =$
 (1) 1 : 2 (2) 1 : 4 (3) 2 : 3 (4) 3 : 4

110. The sum of integers between 80 and 150 which are divisible by 7 is
 (1) 1162 (2) 1100 (3) 1172 (4) 1421
111. If one of the exterior angles of a triangle 105° and the interior opposite angles are in the ratio 2 : 5 then the angles of triangle are
 (1) $30^\circ, 75^\circ, 75^\circ$ (2) $150^\circ, 50^\circ, 30^\circ$ (3) $60^\circ, 45^\circ, 75^\circ$ (4) $50^\circ, 55^\circ, 75^\circ$
112. A room of dimensions $8\text{m} \times 5\text{m}$ has a varandah all around it. If the width of varandah is 2m, then its area in m^2 is
 (1) 30 (2) 68 (3) 40 (4) 18
113. In $\triangle ABC$, if $DE \parallel BC$ and $\frac{AD}{DB} = \frac{3}{5}$, $AC = 5.6$ cms, then AE (in cms) is
 (1) 2.1 (2) 2.3 (3) 16.8 (4) 3.4
114. $[124 - \{(48 \div 6 + 4 \times 3 - 2 - 6)\}]$
 (1) 368 (2) 98 (3) 112 (4) 122
115. The author of 'pancha siddhantika' is
 (1) Aryabhatta (2) Varahamihira (3) Bhaskara charya (4) Brahma Gupta
116. In the lesson plan presently being prepared in schools, the aspect to be indicated after content analysis is
 (1) teaching learning activities (2) teaching learning material
 (3) competencies to be achieved (4) evaluation
117. Students are asked to find the various characteristics of a rectangle by using a geometric box the teaching method adopted is the
 (1) problem solving method (2) play way method
 (3) project method (4) Heuristic method
118. It is conducted to identify the talented students in mathematics
 (1) Mathematics club (2) mathematics Olympiad
 (3) mathematics library (4) Mathematics laboratory
119. Which of the following is not the nature of mathematics?
 (1) discourse (2) inductive and deductive reasoning
 (3) abstraction (4) accuracy
120. Which teaching method is useful for verification of principles?
 (1) activity based method (2) inductive method
 (3) synthetic method (4) deductive method
121. Smoke emitting out from vehicles does not contain
 (1) SO_2 (2) CO_2 (3) CO (4) N_2O
122. Unit of acceleration is
 (1) m/sec (2) m/sec^2 (3) m-sec (4) m-sec^2

123. If an object is placed in front of concave mirror at less than the focal length distance, then image formed will be
 (1) real, diminished, inverted (2) virtual, enlarged, inverted
 (3) real, enlarged, inverted (4) virtual, diminished, erect
124. Reason for formation of mirage
 (1) optical illusion (2) refraction (3) total internal reflection (4) reflection
125. 20 decibel sound is how much more than 10 decibel sound
 (1) 2 times (2) 4 times (3) 10 times (4) 100 times
126. Volume of 71 gram of chlorine gas is
 (1) 22.4 lit (2) 44.8 lit (3) 11.2 lit (4) 33.6 lit
127. Bond energy of C-C
 (1) 60 kcal (2) 70 kcal (3) 80 kcal (4) 90 kcal
128. Burning in absence of air is called
 (1) Roasting (2) melting (3) calcination (4) combustion
129. Electron enters first in which object
 (1) 4s (2) 3p (3) 2d (4) 2f
130. Equivalent resistance in the circuit is

 (1) $\frac{1}{2}$ (2) $\frac{1}{3}$ (3) $\frac{1}{4}$ (4) $\frac{1}{6}$
131. pH values for some substances is given below
 I. ph value of w is 7
 II. ph value of v is 6
 III. ph value of y is 3
 IV. ph value of z is 9
 (1) x (2) y (3) w (4) z
132. Which of the following factors does not effect ionisation energy
 (1) screening effect (2) orbital penetration (3) bond energy (4) atomic radius
133. Choose the correct pair of short term crops
 (1) Jowar-green gram (2) Green gram- black gram
 (3) Black gram- red gram (4) Red gram- towards
134. The correct food chain is
 (1) Insects → plants → rabbit → deer
 (2) Rabbit → plants → deer → fox

- (3) Carrot → rabbit → cow → tiger
 (4) Small insects → frog → snake → Peacock
135. When plants are grown in shade they tend to bend towards light and grow this is due to
 (1) gibberellins (2) auxins (3) cytokinins (4) abscisic acid
136. Number of parts that the stamen and the pistil in datura flower has.
 (1) Stamen - 3 pistil -4 (2) stamen -4 pistil-2
 (3) Stamen-2 pistil -3 (4) Stamen- 5 pistil -1
137. To get honey dew ants keep a type of insect called
 (1) Aphids (2) honey bees (3) soldier (4) drones
138. The joint between the upper jaw and the rest of the head is
 (1) hinge joint (2) fixed joint (3) pivot joint
 (4) ball and socket joint
139. One of the following is not the sites of taste sensation
 (1) Fungiform papillae (2) circumvallate papilla
 (3) foliate papillae (4) filiform papillae
140. The Kingdom that was not proposed in Copland's classification of life forms is
 (1) Monera (2) plante (3) fungi. (4) animalia
141. Fishes lay eggs in this part of the pond
 (1) Sponsor face (2) above the pond surface
 (3) pond margin (4) bottom of the pond
142. Lichens are the colonies of
 (1) Bacteria and fungi (2) Algae and fungi (3) Virus and algae (4) Bacteria and virus
143. HIV is spread through
 i) Blood ii) toilets iii) mosquitoes iv) semen
 (1) I and II. (2) II and iii. (3) I and iv. (4) iii and iv
144. Choose the correct pair
 (1) Skeletal muscles -non striated muscles (2) smooth muscles -non striated muscles
 (3) cardiac muscles- voluntary muscles (4) voluntary muscles- non striated muscles
145. Formative evaluation is done
 (1) before starting the instructions (2) during the process of instruction
 (3) after the completion of term (4) before admission into a course
146. The scientist who discovered that lightening consists electricity
 (1) Benjamin Franklin (2) Galvani
 (3) Andre ampere (4) George ohm
147. The component of curriculum which emphasises on " why do we teach"

- (1) Objective (2) learning experiences
(3) TLM D. (4) teaching approach
148. The common size of letters on the chart used by the teachers in the classroom should be (in cm)
(1) 1 to 3 (2) 2 to 4 (3) 3 to 4 (4) 5 to 10
149. John Dewey' sparagramatism is the basis for the following method.
(1) discussion method (2) project method
(3) lecture demonstration method (4) lecture method
150. Accuracy and efficiency of a test can be brought out by this characteristic features
(1) Reliability (2) comprehensiveness
(3) validity (4) interpretability

