CENTRE FOR EDUCATIONAL DEVELOPMENT OF MINORITIES
OSMANIA UNIVERSITY
Minorities Welfare Department, Government of Telangana
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TET – 2022
Free Coaching Programme

MODEL TEST   **PAPER – II (EM)**   **MATHS AND SCIENCE**

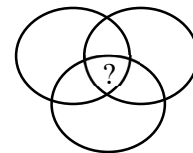*Time: 2 hours 30 minutes*   *Max. Marks: 150*

Part – I : Child Development and Pedagogy

1.   Developmental psychology is the intra-individual changes during
        (1) Adolescence   (2) Adulthood   (3) Childhood   (4) Lifespan

2.   STD is the abbreviation of
        (1) Subscribers Trunk Dialing   (2) Severely Treated Disease
        (3) Sexually Transmitted Disease   (4) Supreme Tree Disorder

3.   Perceptual process includes
        (1) Sensation   (2) Attention   (3) Interpretation   (4) All the above

4.   In motivation cycle the ultimate state is
        (1) Drive state   (2) Goal   (3) Obstacles   (4) Frustration

5.   Which of the following statement is not in accordance with the components of learning?
        (1) Learning is a change in potential behaviour
        (2) Learning is a sudden and desired change in behaviour
        (3) Learning is a sum total of changes which are relatively
        (4) Learning has no link with behavioral change

6.   Which of the following is not the principle of development?
        (1) there are individual differences in development
        (2) Development is the result of coincidences
        (3) It is continuous process
        (4) It is predictable

7.   In which stage of life the physical growth is rapid?
        (1) Early childhood   (2) Adolescence   (3) Infancy   (4) School age

8.   _____ is not a characteristic of early childhood.
        (1) Pre-gang age   (2) Imitative age   (3) Questioning age   (4) Play age

9.   Which of the following statement is/are correct regarding emotional/social development
        in a child?
        i)   Between ages 2 and 6 months infants express feelings such as anger, sadness, surprise
             and fear

ii) Babies cannot express themselves in any way until the age of 1 year.

iii) Toddlers usually enter another emotionally rocky time between the ages of 15 to 18 months

(1) II and III   (2) I and II   (3) I, II and III   (4) I and III

10. According to Jean Piaget the second stage of cognitive development is

(1) Sensory motor stage   (2) Formal operational stage

(3) Pre-operational stage   (4) Concrete operational stage

11. Pre-operational stage in Jean Piaget's Theory of cognitive development characterizes
____

(1) Centration in thought   (2) Hypothetic deductive thinking

(3) Ability to conserve and seriate objects   (4) Development of abstract thinking

12. Sunita asks her son to complete a chore around the house, he asks sunita, what the benefit would be to him. As per Kowberg the son is lying at which stage of development?

(1) Obedience and punishment

(2) Maintaining the social orientation order

(3) Individualism and exchange

(4) Social contract and individual rights

13. The linguist, Noam Chomsky maintains that every child has an innate Language Acquisition Device (LAD) that he/she uses for:

(1) Semantic   (2) Phonemes

(3) Universal Grammar   (4) Complex words

14. Becoming a fully functioning person is the concept put forward by

(1) Carl roger   (2) Carl Jung   (3) Abraham Maslow   (4) Allport

15. ………….. vs ………… is the conflict faced during middle adulthood.

(1) Autonomy Vs Shame and Doubt   (2) Identity Vs Role Confusion

(3) Integrity Vs Despair   (4) Generativity Vs Stagnation

16. Which of the following statement is wrong in the context of personality?

(1) Personality is unique and specific

(2) Personality is a joint product of heredity and environment

(3) Personality spreads over the sub-conscious and unconscious behaviour of the person

(4) Personality is limited only to the appearance of a person

17. Changes in Raju that brings qualitative changes in function or character are

(1) Physiological   (2) Developmental   (3) Physical   (4) Cultural

18. According to skinner theory, the 'S' type of conditioning applies to:

(1) Respondent behaviour   (2) Operant behaviour

(3) Modified behaviour   (4) None of the above

19. The theory which is also known as theory of reinforcement?

(1) Classical conditioning theory   (2) Operant conditioning theory

(3) Stimulus response theory   (4) Theory of insight

20. Who proposed the insightful theory of learning?
    (1) Thorndike   (2) Gardener   (3) Kohler   (4) Skinner

21. The father of Modern Learning Theory is:
    (1) E.L. Thorndike   (2) B.F. Skinner
    (3) Lev Vygotsky   (4) Ivan Petrovich Pavlov

22. Albert Bandura is associated with which of the following?
    (1) Social learning theory   (2) Behavioural theory
    (3) Cognitive theory of development   (4) Psycho-social theory of development

23. Which of the following Psychologist define the moral development?
    (1) Ivan P. Pavlav   (2) Mc. Dougall
    (3) Jean Piaget   (4) None of the above

24. Good health and well-being is part of which stage of the hierarchy of needs?
    (1) Esteem needs   (2) Safety needs
    (3) Social needs   (4) Self actualization

25. Why should teachers acquire themselves with Abraham Maslow's Hierarchy of needs?
    (1) the stages in students development might determine their ability to be successful in certain subjects
    (2) Social and emotional growth can impact students in their ability to co-operate with their peers.
    (3) Deficiencies in students lives can impact their ability to succeed academically.
    (4) Parenting styles determine whether children get success academically or not

26. "The behaviour which is rewarded tend to be repeated". This shows.
    (1) Law of readiness   (2) Law of exercise
    (3) Law of multiple response   (4) Law of effect

27. The best method to study the behaviour of children, animals and birds?
    (1) Participant observation   (2) Controlled observation
    (3) Natural observation   (4) Non-participant observation

28. Identify the right order of steps in unit method.
    (1) Exploration →Subject explanation→Assimilation→Recitation→Organization
    (2) Exploration→Subject explanation→Assimilation→Organization→Recitation
    (3) Subject explanation→Assimilation→Exploration→Recitation→Organization
    (4) Recitation→Exploration→Subject explanation→Assimilation→Organization

29. Identify "?" in the Ven diagram related to knowledge, skill, desire and habits?
    (1) Knowledge
    (2) Skill
    (3) Habits
    (4) Desire

30. The IQ of 16 year old boy whose mental age is 12 year will be ____
    (1) 60   (2) 64   (3) 70   (4) 75

Part II : Hindi (Language – I)

31-35 निम्न लिखित गद्यांश पढ़िए और पूछे गये प्रश्नों के सही उत्तर पहचानिए।

संत कबीर हिंदी साहित्य के श्रेष्ठ कवि थे। वे निरक्षर थे पर उनका ज्ञान किसी विद्वान से कम नहीं था। वे मस्तमौला, फक्कड़ और लापरवाह फ़कीर थे। उन्हें न तो तत्कालीन शासकों का कोई भय था और न ही धार्मिक सम्प्रदायों का।

कबीर की प्रामाणिक रचना 'बीजक' है, जिसमें तीन भाग साखी, सबद और रमैनी। इनमें कुछ रचनाएँ गुरु ग्रंथ साहब में भी सकलित है।

कबीर निर्गुणी थे। उनका मानना था कि ईश्वर विश्व के कण-कण में विद्यमान है। उसे कहीं बाहर ढूंढ़ने की आवश्यकता नहीं है क्यों कि वह सदा हमारे साथ है। कबीर ने गुरु को परमात्मा से भी अधिक महत्व दिया है। वे हिंदू-मुसलमानों में एकता स्थापित करना चाहते थे। इन्होंने जाति-पाति और वर्ग-भेद का विरोध किया।

कबीर की भाषा में अवधी, ब्रज, खड़ी बोली, फ़ारसी, अरबी पंजाबी आदि भाषाओं के शब्द मिलते हैं इसलिए इनकी भाषा को खिचड़ी भाषा भी कहते हैं।

31. कबीर इनसे नहीं डरते थे।
    (1) विद्वान   (2) शासक   (3) फ़कीर   (4) कवि

32. कबीर की कुछ रचनाएँ इस ग्रंथ में हैं –
    (1) बीजक   (2) साखी   (3) रमैनी   (4) गुरु ग्रंथ साहब

33. कबीर के अनुसार ईश्वर यहाँ रहता है
    (1) मंदिर में   (2) बाहर   (3) हर जगह   (4) कहीं नहीं

34. कबीर की भाषा को खिचड़ी क्यों कहते हैं?
    (1) भाषा बहुत कठिन थी   (2) इनकी भाषा में अनेक भाषाओं के शब्द है।
    (3) इनकी भाषा हिंदी है   (4) वे श्रेष्ठ कवि थे।

35. निम्नलिखित में से एक विशेषता से कबीर से संबंधित नहीं है ।
    (1) कबीर ने परमात्मा को गुरु महान माना।   (2) धार्मिक सम्प्रदायों से नहीं डरते थे।
    (3) जाति-पाति का विरोध किया।   (4) हिंदू-मुसलमानों में एकता चाहते थे।

36-40- निम्नलिखित पद्यांश पढ़िए और पूछे गये प्रश्नों के सही उत्तर पहचानिए|

'माँ' धरती का सौरभ, इस जगती की गौरव गाथा,
"माँ" जिसके आगे झुक जाये, देवों का तक का माथा
जिसके मन में सदा स्नेह का महासिन्धु लहराता,
सूखे जलधि, स्रोत जिसकी ममता का सूख न पाता;
सब से पहला 'शब्द' आदमी जिससे सीखे बोली
किसी तराजू पर भी 'माँ' की महिमा जाये न तोलि।
जीवन का वरदान मिला है, माँ से हर प्राणी को।
इससे मीठा शब्द न अब तक मिला किसी वाणी को।
त्याग और तप की मूरत "माँ" इस पर बलि बलि जाओ,
नित उठ चरण पखारो माँ के, नित इसके गुण गाओ।

36. पद्यांश किसके संबंध में है?
    (1) माँ   (3) धरती   (3) सौरभ   (4) जगह

37. कवि के अनुसार क्या नहीं सूखता है?

(1) स्नेह का माहासिन्धु (2) जलधि (5) ममता का स्रोत (4) मन

38. कवि ने सब से मीठा शब्द किसे माना है ?
(1) देव (2) ममता (3) महिमा (4) माँ

39. माँ के बारे में कवि का कथन है
(1) माँ की तबस्या करो (2) माँ के चरण धो (3) मा की सेवा करो (4) माँ को मत भूलो

40. माँ को जगत का _____ कहा गया है।
(1) सौरभ (2) ममता (3) गौरव (4) गाथा

41. इस रास्ते पर लोग आते-जाते रहते हैं। (इस वाक्य में यह क्रिया है।
(1) पूर्वकालिक (2) प्रेरणार्थक (3) सकर्मक (4) संयुक्त

42. लड़कों से लिखा नहीं जाता। (वाक्य में यह वाच्य है।
(1) भाव वाच्या (2) कर्म वाच्या (3) कर्तृ वाच्या (4) कर्म और भाव

43. यदि परिश्रम करते तो परीक्षा में उत्तीर्ण होते। (अर्थ की दृष्टि से यह वाक्य है)
(1) संदेहार्थक (2) संकेतार्थक (3) इच्छार्थक (4) विधानार्थक

44. देश भर में स्वतन्त्रता दिवस धूम-धाम से
(1) मनायी गयी (2) मनाये गये (3) मनाया गया (4) मनानी चाहिए

45. गलत मेल पहुंचालिए।
(1) संज्ञा – मित्रता (2) सर्वनाम – कौन
(3) विशेषण – बहुत (4) क्रिया – गीत

46. दिन में काम और रात में आराम करना चाहिए । यह स्त्रीलिंग शब्द है।
(1) दिन (2) काम (3) रात (4) आराम

47. मैं कभी-कभी पुराने दोस्तों से मिलता हूँ।
(रेखांकित शब्द में यह चिह्न है)
(1) कोष्ठक (2) अल्प विराम (3) योजक चिह्न (4) उपविराम

48. मैं फोन के द्वारा संदेश भेज दूंगा।
रेखांकित शब्द में यह कारक है।)
(1) करण (2) सम्प्रदान (3) कर्म (4) कर्ता

49. 'फूठी आँखों न देख सकना" मुहावरे का भाव है
(1) द्रष्टि कम होना (2) ईर्ष्या करना (3) वैर-भाव रखना (4) स्नेह रखना

50. यह रामनरेश त्रिपाठी की रचना है।
(1) सुंदर भारत (2) बरसते बादल (3) कन्यादान (4) अन्वेषण

51. ये महाप्राण व्यंजन हैं।
(1) श, ष, स, ह (2) क, च, ट, त (3) ग ज द ब (4) अ ञ न म

52. घर में मेहमान आये हैं। (काल पहचानिए)
(1) पूर्ण वर्तमान काल (2) आसन्नभूत काल (3) सामान्य वर्तमान काल (4) सामान्य भविष्य काल

53. 'दुस्साहस' का सही संधि कच्छेध पहचानिए।

(1) दुस + साइत   (2) दु+साइस   (3) दु: + साइत   (4) साहस +दुस

54. निम्नलिखित में दून्दू समाप्त का उदाहरण पहचानिए
(1) सप्ताह   (2) सुख-दुख   (3) लोकसभा   (4) विद्यार्थी

55. त्रिभाषा सूत्र को भारत सरकार ने कब स्वीकारा।
(1) 1957   (2) 1967   (3) 1977   (4) 1987

56. 'पढ़ने के प्रति रूचि जागृत करना' - सस्वर वाचन का कौनसा क्रम है।
(1) प्रथम   (2) द्वितीय   (3) तृतीय   (4) चतुर्थ

57. बालकों को ज्ञानेन्द्रयों द्वारा समझाना भाषा शिक्षण के इस सूत्र का मुख्य उद्देश्य है।
(1) सरल से कठिन की ओर   (2) ज्ञात से अज्ञात की ओर
(3) विश्लेषण से सश्लेषण की ओर   (4) स्थूल से सू की ओर

58. _____ से छात्रों के व्यक्तित्व का विकास सभी दिशाओं में होता है।
(1) भाषण   (2) सहगामी क्रियाओं   (3) विद्यालय पत्रिका   (4) नाद-विवाद प्रतियोगिता

59. इसमें सम्पूर्ण शिक्षण प्रक्रिया का एक स्पष्ट चित्र है।
(1) गृह काल   (2) पुस्तकालय   (3) इकाई पाठ योजना   (4) मूल्यांकन भोजना

60. जब विद्यार्थी का मूल्यांकन निरंतर पूरे वर्ष जारी रहता है तो उसे यह कहते हैं।
(1) सतत समग्र मूल्यांकन   (2) उपलब्धि परीक्षा   (3) वस्तुनिष्ठ परीक्षा   (4) सापक एवं मूल्यांकन

Part III : English (Language II)

Passage : Read the passage and answer the questions.

Marketing refers to any activities that a company uses to promote its products and services and improve its market_share. In order to be successful, marketing requires a combination of advertising savvy, sales, and the ability to deliver goods to end-users. This is normally undertaken by specific professionals or marketers who can work internally (for companies) or externally with other marketing firms.

Traditionally, corporations focused on marketing through print, television, and radio. Although these options still exist today, the rise of the internet led to a shift in the way companies reached consumers. That's where digital marketing came into play. This form of marketing involves the use of websites, social media, search_engines, apps—anything that incorporates marketing with customer feedback or a two-way interaction between the company and customer.

Increased technology and newer trends forced companies to change the way they marketed themselves. Email was a popular marketing tool in the early days of digital marketing. That focus shifted to search engines like Netscape, which allowed businesses to tag and keyword stuff to get themselves noticed. The development of sharing sites like Facebook made it possible for companies to track data to cater to consumer trends.

Smartphones and other digital devices are now making it easier for companies to market themselves along with their products and services to consumers. Studies show that people prefer using their phones to log on to the internet. So it should come as no surprise that 70% of individuals make buying decisions (usually on their phones) before they actually hit the purchase button.

61. What made the companies change their marketing strategies ?
(1) increased population and newer requirements
(2) decreased technology and older trends
(3) increased technology and newer trends
(4) stable technology and traditional trends

62. What is the meaning of the word 'savvy' as per the passage?
(1) disinterest for information   (2) less knowledge
(3) Interest to know   (4) no need of knowing the information

63. What allowed businesses to tag to get noticed, as per the passage?
(1) emails allowed to businesses to tag
(2) smartphones used to be the source of business
(3) newspapers were another source for business
(4) search engines like Netscape

64. What made it possible for companies to track data to cater to consumer trends
(1) the decrease in the production of crude oil
(2) the increase in the production of unnecessary products
(3) the fall in the demand for the electronics
(4) The development of sharing sites like Facebook

65. What requires marketing to be successful, as per the passage?
(1) big investment, big number of stake holders
(2) a combination of advertising savvy, sales, and the ability to deliver goods to end-users
(3) a large space for the establishment of the company
(4) a large network of customers

6-10 **The following passage contains numbered blanks. Identify the correct option for each of the blanks from those given against each other.**

A few years later war_____ between the potter's country and a much_____ neighbor. The king immediately gathered a large army. But he _____ that it was not enough to save his country from defeat. He needed a hero to lead his army. Where _____ he find such a brave man? The king hurriedly called his ministers _____ and asked their advice.

66. (1) called   (2) announced   (3) broke out   (4) stepped

67. (1) stronger   (2) enemy   (3) stranger   (4) cordial

68. (1) ordered   (2) borrowed   (3) defeated   (4) realized

69. (1) may   (2) could   (3) should   (4) need

70. (1) single   (2) separately   (3) responsibly   (4) together

71. He said to aspirants, "You need to spend some time for practice". The correct reported speech for the given statement is
(1) He asked them to spend time
(2) He ordered them all to think of some time
(3) He suggested aspirants to practice with time frame
(4) He told the aspirants to spend some time for practice.
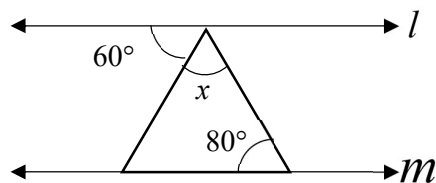
72. pick out the correct sentence among the following.
    (1) He had applied for the transfer before others decided
    (2) They have went for the vacation
    (3) we did not replied to the letter
    (4) she have not taken the notes

73. Identify the finite clause from the given
    (1) Born in a poor family   (2) being a politician
    (3) she acted in a short film   (4) hailing from a aristocrat family

74. I wish to change the vehicle this monsoon.
    This sentence can mean
    (1) he wanted to change the vehicle in the past
    (2) he was told to change the vehicle
    (3) he is planning to change his vehicle
    (4) he had already changed the vehicle

75. identify correct question tag for the sentence.
    That young boy is an international motivational speaker,_____?
    (1) didn't he   (2) does he   (3) couldn't he   (4) doesn't he

76. A person above 100 years of age is given special incentives by the government, has a one word substitute
    (1) septuagenarian   (2) senior citizen   (3) centenarian   (4) zero aged

77. The people of the nation have 'voted out' the century old party, the meaning of the given phrasal verb
    (1) gave second chance   (2) defeated
    (3) did not participate in voting   (4) sold their votes

78. Teaching in the private school is the 'bread and butter'means
    (1) hobby   (2) main livelihood   (3) vocation   (4) last option

79. The Chief Minister is the ex-officio chairman of the many offices, the meaning of the foreign phrase is
    (1) elected by the MLCs   (2) nominated by the President of the country
    (3) promoted by the Governor   (4) by virtue of his/her office

80. In the word 'honorary'
    (1) o is silent   (2) h is pronounced   (3) h is silent   (4) h is stressed

81. I want to start my own recording studio. Select the correct phrasal verb for the underlined.
    (1) see up   (2) show up   (3) set in   (4) set up

82. Identify the *relative clause* from the given.
    (1) copiers will be punished   (2) those who copy will be punished
    (3) coping must be avoided   (4) write the exam honestly

83. Reading comprehension is an example of
    (1) developing writing skill   (2) only for vocabulary
    (3) purely to test grammar   (4) skimming

84. They (i) / have (ii) / never help (iii) / a single person (iv) / in their life (v) Identify the part that has error. Mentioning subject in this kind of letters is must
(1) personal (2) official (3) letters to siblings (4) letter to editor
i) only b ii) only d iii) a and b iv) b and d

85. Dictionary skills is an example of this
(1) speaking skills (2) study skills (3) listening skills (4) writing skills

86. Phonetic transcription is an example of
(1) note taking (2) note making (3) handwriting (4) oral skills

87. A good test must distinguish between
(1) a good and poor students (2) only good students
(3) average students (4) extraordinary students

88. Syllabus designing is categorized into content-based, method based and
(1) material based (2) skill- based (3) location based (4) person based

89. Group discussion is a part of this method
(1) grammar translation (2) reading
(3) structural (4) communicative

90. Listening is a
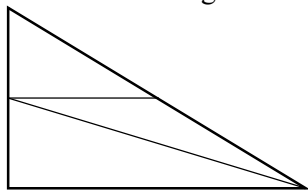(1) productive skill (2) simpler skill (3) receptive skill (4) oral skill

Part IV(1) : Mathematics Content

91. In $\dfrac{2}{3}$, $\dfrac{3}{5}$, $\dfrac{5}{8}$ the difference between the largest & the smallest fraction is
(1) $\dfrac{1}{15}$ (2) $\dfrac{1}{24}$ (3) $\dfrac{1}{40}$ (4) None

92. If the weight of 18 sheets of paper is 50gm, how many sheets of the same paper will weigh $3\dfrac{3}{4}$ kg?
(1) 1386 (2) 1836 (3) 1350 (4) 1314

93. The value of y for which the 4-digit number 51y3 is divisible by 9
(1) 2 or 3 (2) 0 or 9 (3) 0 or 3 (4) 3 or 9

94. The ratio of two numbers is 5:6 & their HCF is 12. Their LCM is
(1) 60 (2) 72 (3) 180 (4) 360

95. Three friends divide Rs. 624 among themselves in the ratio $\dfrac{1}{2}$, $\dfrac{1}{3}$ $\dfrac{1}{4}$. The share of the third friend is
(1) 156 (2) 144 (3) 192 (4) 288

96. A distance of ½ cm on a map represents 200km on ground. If two cities are 1800 km apart on the ground, then distance on the map will be
(1) 6cm (2) 9cm (3) 3 & 1/2 cm (4) 4 & 1/2 cm

97. A T.V was bought at a price of Rs. 21,000. After 1 year the value of the TV was depreciated by 5%. Then the value of the T.V after 1 year is
   (1) 10,500   (2) 19,950   (3) 1050   (4) 1995

98. If A's salary is 20% more than that of B, then how much percent is B's salary is less than that of A
   (1) 20%   (2) 25%   (3) 17%   (4) 15%

99. If $(\sqrt{3})^5 \times 9^2 = 3^n \times 3\sqrt{3}$, then the value of n is
   (1) 3   (2) 2   (3) 5   (4) 6

100. Find the least number that is to be subtracted from 4000 to make it a perfect square
   (1) 3969   (2) 31   (3) 63   (4) 6

101. In the product of $(9x^2 + 15 - x)$ and $(-1 - x + x^2)$, if A, B and C are the coefficients of x^3, x^2 & x respectively, then the value of (A+B−C) is
   (1) -3   (2) 14   (3) -17   (4) 11

102. If $x^2 + \dfrac{1}{x^2} = 66$, then find the value of $x - \dfrac{1}{x}$
   (1) 8   (2) 16   (3) 33   (4) 64

103. One factor of $2x^2 - 9x - 26$ is
   (1) $x + 1$ (2) $x + 2$ (3) $x + 3$ (4) $x + 4$

104. The father's age is 6 times his son's age. 4 years later, the age of the father will be four times his son's age. The present ages in years of the son & father are respectively
   (1) 4 & 24   (2) 5 & 30   (3) 6 & 36   (4) 3 & 24

105. In the figure if $l \parallel m$ then the value of x is
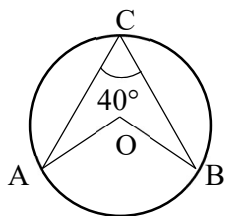

   (1) 60°   (2) 40°   (3) 80°   (4) 140°

106. The sum of all interior angles of a pentagon is
   (1) 540°   (2) 360°   (3) 180°   (4) 720°

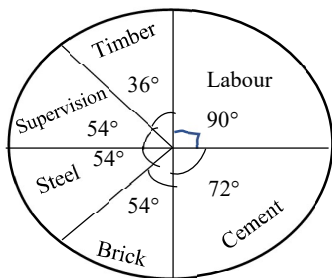107. Number of triangles in the given figure are

   (1) 3   (2) 4   (3) 5   (4) 6

108. Figure formed by joining the mid points of a rhombus is
(1) Square   (2) Rectangle   (3) Parallelogram   (4) Quadrilateral

109. A rectangular park is 45m long & 30m wide. A path 2.5m wide is constructed outside around the park. The area of the path is
(1) 200 m^2 (2) 300 m^2 (3) 400 m^2 (4) 375 m^2

110. The perimeter of a trapezium is 58 cm & sum of its non-parallel sides is 20cm. If its area is 152cm^2, then the distance between the parallel sides (in cm) is
(1) 6cm   (2) 7cm   (3) 8cm   (4) 70cm

111. In the given figure, O is the center & $\lfloor ACB = 40°$, then $\lfloor AOB$ is equal to

(1) 20°   (2) 40°   (3) 80°   (4) 30°

112. The ration of volumes of two cubes is 27:64. What will be the ratio of the area of surfaces
(1) 3:8   (2) 3:4   (3) 9:16   (4) 27:64

113. A Polyhedron has 6 faces & 8 vertices. How many edges does it have?
(1) 14   (2)15   (3) 10   (4) 12

114. Given Pie-graph shows the cost of construction of a house. If total cost of construction is Rs. 1,50,000, then the amount spent on labour is

(1) Rs. 90000   (2) Rs. 250000   (3) Rs. 360000   (4) 375000

Part IV(2) : Methodology

115. In a mathematics classroom, emphasis is placed on
(1) Mathematical content, process and reasoning
(2) Problem solving strategies
(3) Mathematical algorithms and process
(4) Mathematical content

116. Which of the following is not a problem solving strategy in mathematics?
(1) Drawing   (2) Solving backwards
(3) Role learning   (4) trial and error

117. The word GAINT stands for
(1) Growing ability in numerical involvement and training
(2) Growing aptitude in numerical innovative and technique
(3) Growing ability in numerical innovation and technique
(4) Growing aptitude in numerical innovative and training

118. "Write a pair of integers whose sum gives a negative integer" the above question refers to
(1) reflective question   (2) multi-disciplinary question
(3) open-ended question   (4) closed ended question

119. "Let no one are ignorant of geometry enter my door" said by
(1) Aristotle   (2) Socrates   (3) Plato   (4) Euclid

120. The role of proportional reasoning in understanding the concept related to ration and proportion was profoundly elaborated by
(1) Zaltan Diewes   (2) Jean Piagent   (3) Van Hiele   (4) Leu Vygetsley

Science-Content

121. Oxygen released in Photosynthesis comes from
(1) Water   (2) CO_2 (3) O_2 (4) All above

122. Powerhouse of cell
(1) Chloroplast   (2) Mitochondria   (3) Golgi   (4) EPR

123. Dental formula of man
(1) $\dfrac{2321}{2321}$ (2) $\dfrac{2321}{2012}$ (3) $\dfrac{2123}{2123}$ (4) $\dfrac{1232}{2123}$

124. Dog breads is example for......... Biodiversity
(1) Genetic   (2) Species   (3) Ecosystem   (4) All

125. Bacteria in intestines
(1) Bacillus   (2) Yeast   (3) E. Coli   (4) Yeast.

126. First aid for dog bite
(1) Dettol wash   (2) Water wash   (3) Soap wash   (4) Injection

127. Penicillin discovered by
(1) Louise pasture   (2) Waxman
(3) Alexander Fleming   (4) Subbarao

128. single cell protein algae
(1) Spirogyra   (2) Chara   (3) Ulva   (4) Chlorella

129. Excretory organ in insects
(1) Malphigian tubes   (2) Nephridia   (3) Kidney   (4) Cox glands

130. Pseudocoelomate
(1) Hydra   (2) Ascaris   (3) Teania   (4) Nereis

131. Highest number of species are present in...... Phylum

(1) Arthropoda   (2) Fishes   (3) Birds   (4) Mammals

132. Ribozyme type in bacteria
(1) 60S   (2) 70 S   (3) 80S   (4) 100S

133. The SI Unit of Pressure
(1) Pascal   (2) dyne/cm^2 (3) N/M   (4) Newton

134. The relation among the coefficient of friction is
(1) $\mu_l = \mu_k = \mu_r$ (2) $\mu_l < \mu_k < \mu_r$ (3) $\mu_r > \mu_l > \mu_k$ (4) $\mu_l > \mu_k > \mu_r$

135. The ration of height, when a stone is thrown into air with initial velocities of 10 m/s, 20 m/s & 30 m/s
(1) 1:8:27   (2) 1:4:9   (3) 1:2:3   (4) 2:4:6

136. Which year was Halley's comet last seen
(1) 1976   (2) 1966   (3) 1986   (4) 1956

137. Rainfall is measured with
(1) Polvanometer   (2) Udometer   (3) Anthrometer   (4) All the above

138. The world water day every year is on
(1) Feb-24   (2) April-12   (3) March-22   (4) December-30

139. Bhuj & Kashmir earthquakes had magnitudes of
(1) >7.5   (2) <8   (3) <7   (4) =7

140. The angle between F & S when positive work is said to be done is
(1) 0°   (2) 90°   (3) 180°   (4) -180°

141. The SI unit of electromotive force is
(1) Ampere   (2) Ohm   (3) Volt   (4) Ohm-meter

142. Which compound react with Cl_2 gas then form Chloroform.
(1) NaCl.   (2) AgCl.   (3) $Ca(OH)_2$ (4) $CaCO_3$

143. Which device work on the principle of chemical energy converted into electric energy
(1) resistance.   (2) battery.   (3) galvanometer.   (4) fuse

144. If methyl orange indicator is added to a solution then it's turn's in to yellow colour what is the solution.
(1) Salt.   (2) Acid.   (3) base.   (4) indicator.

145. Father of immunology
(1) Edward Jenner   (2) Louise Pasture   (3) Waksman   (4) Coch

146. Suggest best teaching method for CCA curriculum
(1) Lecture &Demonstration   (2) Experimental
(3) Student seminar   (4) All above

147. In Blooms taxonomy knowledge is

(1) Cognitive   (2) Affective   (3) Psychomotor   (4) All

148. Major time given for lesson plan is
(1) Introduction   (2) Presentation   (3) Comparison   (4) Recapulation

149. Teaching method preferable in present situation
(1) E-learning   (2) Blended   (3) Offline   (4) Experimental

150. Continuous assessment
(1) Objective   (2) Short answer   (3) Formative   (4) Year end exam.