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AEES

Previous Year Paper
PRT April 2018

HINDI (1X10=10)

1. 'निवल' शब्द का सही अर्थ है-
   a) कमजोर   b) निर्बल   c) शुद्ध   d) लाभ

2. "उन्नीस-बीस होना" का अर्थ है-
   a) बहुत कम अन्तर होना   b) बहुत अन्तर होना   c) हिसाब जोड़ना   d) भाग जाना

3. 'रात' शब्द का पर्याय है-
   a) निशा   b) तम   c) तिमिर   d) तमस

4. 'झरना' शब्द का पर्याय है-
   a) कीर्ति   b) भगिनि   c) जलप्रपात   d) मिथ्या

5. 'सम्मुख' शब्द का विलोम/विपरीतार्थक शब्द है-
   a) उन्मुख   b) विमुख   c) प्रमुख   d) अधिमुख

6. 'मौखिक' शब्द का विलोम/विपरीतार्थक शब्द है-
   a) लिखित   b) कथित   c) पठित   d) अलिखित

7. "चिकना घड़ा होना" मुहावरे का अभिप्राय है-
   a) चिकना होना   b) निर्लज्ज होना   c) समृद्ध होना   d) भयभीत होना

8. "विद्या की चाह रखने वाला" के लिए सार्थक एक शब्द-
   a) अनुसंधानकर्ता   b) विद्यार्थी   c) लोलुप   d) चहेता

9. निम्नलिखित वाक्यांशों में अशुद्ध छांटिए-
   a) चंद्रमा की स्वच्छ चांदनी   b) पृथ्वी तल और आकाश
   c) राजनीति विज्ञान   d) क्षेत्रीय विद्यालय

10. कवि की कल्पना से किसकी रचना होती है?
    a) कविता   b) निबंध
    c) कहानी   d) नाटक

ENGLISH (1X10=10)

11. A person pretending to be somebody he/she is not
    a) Magician   b) Rogue   c) Liar   d) Imposter

12. Choose the correctly spelt word:
    a) Efflorascence   b) Efflorescence   c) Efflorescance   d) Eflorescence

13. Choose the correctly spelt word:
    a) Bouquete   b) Boquet   c) Bouquet   d) Bouquett

14. Mark the one that best explains its meaning of the following phrase:
    A blue-eyed boy
    a) A person of European descent   b) A charming person
    c) A favourite   d) Someone with a defective vision

15. Fill in the blank with the correct option-
    I had already published a novel and it was an unexpected success. I thought my _____.
    a) days were up   b) chances were good   c) lady luck was happy   d) fortune was made

16. Pick the feminine gender of 'Boar'
    a) Drake   b) Filly   c) Sow   d) Bride

17. Fill in the blanks with correct option-
    I will meet him _____ Saturday afternoon.
    a) on   b) with   c) to   d) into

18. "A number of stars grouped together" is referred as:
    a) Comet   b) Orbit   c) Solar system   d) Constellation

19. Fill in the blanks with the correct option -
    Some people regard the world as _____
    a) imitation   b) allusion   c) illusion   d) elision

20. Fill in the blanks with the correct option -
    She did the job without _____ enthusiasm.
    a) much   b) all   c) many   d) little

Part-II
CURRENT AFFAIRS (1X10=10)

21. Who is the recently elected as the Chief Minister of Tripura?
a) Manik Sarkar
b) Biplab Kumar Deb
c) Tarun Gogoi
d) Tathagata Roy

22. Which IPL team is allowed to participate again in 2018 after two years ban?
a) Sunrisers Hyderabad
b) Royal Challengers Bangalore
c) Delhi Daredevils
d) Chennai Super Kings

23. Who is the flag bearer for Indian side at the Commonwealth Games 2018?
a) Pankaj Advani
b) Saina Nehwal
c) P.V. Sindhu
d) Mary Kom

24. Saikhom Mirabai Chanu has clinched India's first gold at the 21st Commonwealth Games (CWG-2018). In which weight category did she get the same Gold Medal?
a) 48 kg
b) 56 kg
c) 42 kg
d) 45 kg

25. Who is the newly elected president of Badminton Association of India (BAI)?
a) Devender Singh
b) Anbumani Ramadoss
c) Himanta Biswa Sarma
d) Ajay Singhania

26. NASA's (National Aeronautics and Space Administration) first planned robotic spacecraft to study outer corona of Sun has been designed and built by which university?
a) Oxford University
b) Stanford University
c) Johns Hopkins University
d) Harvard University

27. Which airport has been adjudged as the India's cleanest airport, as per latest survey conducted by the Airports Authority of India (AAI)?
a) Indira Gandhi International Airport
b) Goa International Airport
c) Mangaluru International Airport
d) Sardar Vallabhbhai Patel International Airport

28. India's longest elevated road "Hindon Elevated Road" has come up in which state?
a) Karnataka
b) Madhya Pradesh
c) Rajasthan
d) Uttar Pradesh

29. Kollam Ajith, who passed away recently, was associated with which field?
a) Journalism
b) Film Industry
c) Politics
d) Law

30. Stephen William Hawking, the noted physicist has passed away. He belonged to which country?
a) Brazil
b) Chile
c) South Africa
d) England

TEACHING METHODOLOGY (1x10=10)

31. Emotional Adjustment of students is effective in-
a) Personality formation
b) Class-teaching
c) Discipline
d) All of these

32. Black-board can be included in which group/category of teaching-aids?
a) Audio-aids
b) Visual-aids
c) Audio-visual aids
d) None of these

33. Which of the following is related with teaching skill?
a) Black-board writing
b) Solving questions
c) Asking questions
d) All of these

34. Students who ask questions in the class should be-
a) Advised to meet the teacher after the class
b) Encouraged to participate in the discussion in the class
c) Encouraged to continue asking questions
d) Encouraged to search answers independently

35. At authoritarian level teaching is ......
a) Teacher centered
b) Child-centered
c) Headmaster centered
d) Experience based

36. Who developed the interaction analysis category system in education for increasing the teacher effectiveness?
a) Flander
b) Rayon
c) Amidon and Simon
d) Richard Over

37. One of the important theories of moral development has been proposed by—
a) Laurence Kohlberg
b) Erik Fromm
c) Daniel Coleman
d) Benjamin Bloom

38. While delivering lecture if there is some disturbance in the class, then a teacher should
a) maintain silence for a while and then go on
b) not bother of what is happening in the class
c) punish those causing disturbance
d) all of these

39. Which of the following is not a level of teaching- learning?
a) Differentiation level
b) Memory level
c) Reflective level
d) Understanding level

40. NUEPA is mainly concerned with Educational _____
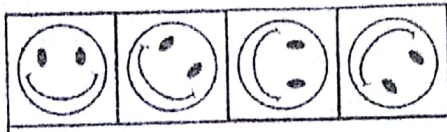a) Supervision
b) Unity
c) Planning
d) Evaluation

2

41. Find out the correct answer figure that should come next in the sequence of problem figures.

   Problem Figure

   Answer Figure

   1   2   3   4

   a) 1   b) 2   c) 3   d) 4

42. Find out the correct answer figure that should come next in the sequence of problem figures.
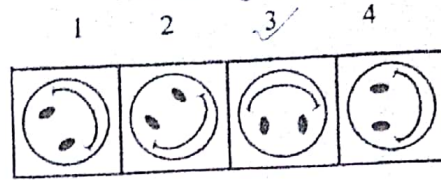
   Problem Figure

   Answer Figure

   1   2   3   4
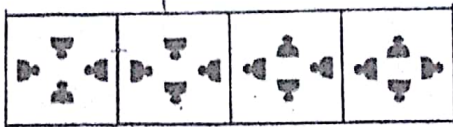

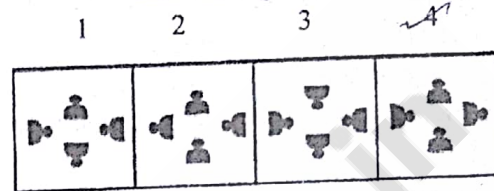   a) 1   b) 2   c) 3   d) 4

43. Choose the correct option to fill-in the blank space

   XYA, XYC, XYB, XYD, XYC, _____

   a) XYD   b) XYE   c) XYB   d) XYC

44. Reena is twice as old as Sunita. Three years ago, she was three times as old as Sunita. How old is Reena now?

   a) 6 years   b) 12 years   c) 14 years   d) 16 years

45. Moon: Satellite:: Earth: _____

   a) Sun   b) Planet   c) Solar System   d) Asteroid

46. Aruna cut a cake into two halves and cuts one half into smaller pieces of equal size. Each of the small pieces is twenty grams in weight. If she has seven pieces of the cake in all with her, how heavy was the original cake?

   a) 240 gm   b) 220 gm   c) 225 gm   d) 250 gm

47. If the English alphabet is written in reverse order, then what will be the fourth letter to the right of the thirteenth letter from the left?

   a) J   b) L   c) K   d) M

48. A party consists of grandmother, father, mother, five sons and their wives and two sons and one daughter to each of the sons, how many females are there in all?

   a) 8   b) 10   c) 12   d) 28

49. The 'Taj Mahal' is in Agra. Agra is in India. Therefore, The 'Taj Mahal' is in India.

   a) False   b) Can't say   c) Probably false   d) True

50. X was born on March 6, 1993. The same year Independence was celebrated on Friday. Find out the birth day of X?

   a) Thursday   b) Saturday   c) Friday   d) Wednesday

   Space for Rough work

3

CONCERNED SUBJECTS (1X50=50)

51. Food cans are coated with tin and not with zinc because:
a) Zinc is costlier than tin
b) Zinc has a higher melting point than tin
c) Zinc is more reactive than tin
d) Zinc is less reactive than tin

52. Which of the following constitutes a food chain?
a) Grass, Wheat and Mango
b) Grass, Goat and Human
c) Goat, Cow and Elephant
d) Grass, Fish and Goat

53. The anther contains:
a) sepals
b) ovules
c) carpel
d) pollen grains

54. In India, uranium is found in which among the following states?
a) Uttar Pradesh
b) Haryana
c) Jharkhand
d) Punjab

55. A solar water heater cannot be used to get hot water on:
a) a sunny day
b) a cloudy day
c) a hot day
d) a windy day

56. The human species has genetic roots in
a) America
b) Africa
c) Australia
d) Antarctica

57. Which of the following elements is not present in stainless steel?
a) Iron
b) Tungsten
c) Chromium
d) Nickel

58. Which of the following can't be used to make a solar cell?
a) Silicon
b) Platinum
c) Gallium
d) Germanium

59. Which of the following is not associated with Fleming's left hand rule?
a) Resistance
b) Magnetic field
c) Force
d) Current

60. The frequency of direct current is
a) Zero
b) 50 Hz
c) 60 Hz
d) 100 Hz

61. Every-hot object emits
a) X-rays
b) infra-red rays
c) visible light
d) none of these

62. Thyroid glands is located:
a) near the heart
b) at the base of the brain
c) in the neck region
d) between stomach and duodenum

63. Name the gas which turns fat and oil containing foods rancid?
a) hydrogen
b) oxygen
c) nitrogen
d) carbon dioxide

64. In the equation: $NaOH + HNO_3 \rightarrow NaNO_3 + H_2O$, nitric acid is acting as
a) an oxidising agent
b) an acid
c) a nitrating agent
d) a dehydrating agent

65. A dynamo converts
a) mechanical energy into sound energy
b) mechanical energy into electrical energy
c) electrical energy into mechanical energy
d) electrical energy into sound energy

66. $2 + 2 - 2 \times 2 \div 2 = ?$
a) 0
b) 1
c) 2
d) 4

67. $|2| + |-2| + (2)^2 + (-2)^2 = ?$
a) 6
b) 8
c) 10
d) 12

68. If x = −1, then what is the value of the function $x^3 + 4x + 12$
   a) 7
   b) 9
   c) 11
   d) 13

69. If, $\frac{x}{2} + 4 = \frac{7}{2}$ then x =?
   a) −2
   b) −1
   c) 1
   d) 2

70. What comes next in the sequence: 2, 4, 10, 28, ___?
   a) 64
   b) 70
   c) 76
   d) 82

71. What are the values of x and y in the following pair of equations
   $x^2y − 2y = 42$; $x + 2 = 5$
   a) x = −2, y = −6
   b) x = 2, y = 6
   c) x = −3, y = −6
   d) x = 3, y = 6

72. How many feet there are in 5 meters? (Approximately)
   a) 15.50
   b) 15.90
   c) 16.40
   d) 16.80

73. 0.003 × 0.0004 =?
   a) 0.0012
   b) 0.00012
   c) 0.000012
   d) 0.0000012

74. What is average (Arithmetic Mean) of the numbers: 2, 4, 5, 0, 9, 10, and 12?
   a) 5
   b) 6
   c) 7
   d) 8

75. $(2^2)^3 \times (2^3)^2$
   a) 4096
   b) 4046
   c) 3096
   d) 3046

76. Expand and simplify (x - 5)(x + 4)
   a) $x^2 + 9x − 20$
   b) $x^2 - x − 9$
   c) $x^2 - x − 1$
   d) $x^2 - x − 20$

77. 20% of 2 is equal to
   a) 20
   b) 4
   c) 0.4
   d) 0.04

78. The graphs of the two linear equations ax + by = c and bx - ay = c, where a, b and c are all not equal to zero,
   a) are parallel
   b) intersect at one point
   c) intersect at two points
   d) perpendicular

79. A school committee consists of 2 teachers and 4 students. The number of different committees that can be formed from 5 teachers and 10 students is
   a) 10
   b) 15
   c) 2100
   d) 8

80. Five different books (A, B, C, D and E) are to be arranged on a shelf. Books C and D are to be arranged first and second starting from the right of the shelf. The number of different orders in which books A, B and E may be arranged is
   a) 5!
   b) 3!
   c) 2!
   d) 3! * 2!

81. The mean of a data set is equal to 10. If we add 5 to each data value, then the mean become
   a) mean = 12
   b) mean = 10
   c) mean = 15
   d) mean = 5

82. Two straight lines in same plane which never meet are called
   a) angles
   b) transversal lines
   c) vertex
   d) parallel lines

83. Opposite angles of any quadrilateral inscribed in a circle are
   a) tangent
   b) supplementary
   c) complementary
   d) reflective

84. If 3 quantities a, b and c are related as a : b : : b : c, then a, b and c are in
   a) third proportional
   b) fourth proportional
   c) mean proportional
   d) continued proportional

85. Value of third proportional to 4, 12 should be
   a) 33
   b) 34
   c) 35
   d) 36

5

(Q. 86 to 93). Please read the passage carefully and answer the questions given below:

The dog is a very <u>intelligent</u> animal and it can be trained for many duties. Some dogs work with the police and the army as sentries and trackers and there are medals that are awarded to dogs for <u>bravery</u> in action. Other dogs act as seeing-eyes for the blind and some breeds are specially trained for rescue work among mountains and snow. Jobs like herding sheep and cattle and guarding homes are also done by them. Whenever man lives and works in the Arctic Circle, in the desert, in the jungle, in the moors or mountains, the dog is his faithful <u>companion</u> and help. A common <u>mongrel</u> may possess these qualities just as much as the <u>aristocratic</u> <u>bloodhound</u>.

86. The passage tells us that dogs
a) can be trained to do different kinds of work
c) are of different types
b) are capable of difficult work
d) alone are a great help to man

87. Medals are awarded to some dogs for
a) being able to perform difficult work
c) serving as sentries
b) working with the police
d) their brave deeds

88. The passage implies that
a) Only dogs are faithful but not man
b) Man would have felt helpless without dogs
c) The dog has certain qualities that make it man's trustworthy companion
d) Dogs can do almost anything

89. The phrase "Aristocratic Bloodhound" in the passage means
a) A mongrel dog
c) A dog fond of blood
b) The dog kept by wealthy people
d) Any big dog

90. Choose the synonym of the word 'Bravery'
a) Courageousness
c) Weakness
b) Fearfulness
d) Feebleness

91. What is a Mongrel?
a) A type of Cat
c) A type of an elephant
b) A type of dog
d) A type of deer

92. Choose the meaning of the word 'Companion'-
a) Buddy
c) Enemy
b) Rival
d) Challenger

93. Choose the antonym of the word 'Intelligent'
a) Clever
c) Foolish
b) Alert
d) Bright

(प्रश्न संख्या 94 से 100) अवतरण को पढ़कर नीचे लिखे प्रश्नों के उत्तर दीजिए-

हड्डियों के बीच के भाग मज्जा में ऐसे बहुत से कारखाने होते हैं जो रक्त कणों के निर्माण-कार्य में लगे रहते हैं। इनके लिए इन कारखानों को प्रोटीन, लौहतत्व और विटामिन रूपी कच्चे माल की <u>जरूरत</u> होती है। यह पौष्टिक आहार लेते हो? हरी सब्जी, फल, दूध, अंडा और गोश्त में ये तत्व उपयुक्त मात्रा में होते हैं। यदि कोई व्यक्ति उचित आहार ग्रहण नहीं करता तो इन कारखानों को आवश्यकतानुसार कच्चा माल नहीं मिल पाता। प्रायः यह समझा जाता है कि रक्तदान करने से कमजोरी हो जाएगी, किंतु यह विचार बिल्कुल <u>निराधार</u> है। हमारा शरीर इतना <u>रक्त</u> तो कुछ ही दिनों में बना लेता है। वैसे भी शरीर में लगभग पाँच लीटर खून होता है। इसमें से यदि कुछ रक्त किसी जरूरतमंद व्यक्ति के लिए जीवन-दान बन जाए तो इससे बड़ी बात क्या होगी! यह दीदी समझाते हुए बोलीं।

94. रक्त कणों की रचना कहाँ होती है?
a) हड्डियों के बीच
b) निर्माण कक्षों में
c) मज्जा में
d) पौष्टिक आहार में

95. रक्त निर्माण के लिए किस कच्चे माल की जरूरत होती है?
a) विटामिन
b) प्रोटीन
c) a) व b) दोनों
d) इनमें से कोई नहीं

96. 'जरूरत' शब्द का समानार्थी शब्द होगा-
a) प्रचुरता
b) उपयोगिता
c) मांग
d) आवश्यकता

97. 'रक्त' शब्द के लिए समानार्थी शब्द होगा-
a) लाल पदार्थ
b) रुधिर
c) लौहतत्व
d) प्रोटीन

98. 'रक्तदान' के संबंध में प्रायः क्या समझा जाता है?-
a) इससे कमजोरी होती है
b) यह अशुभ होता है
c) अप्राकृतिक है
d) कमजोर दिल वालों के लिए नहीं है

99. 'निराधार' शब्द का अर्थ है-
a) आधार कार्ड
b) निर्धन
c) धारदार
d) आधारहीन

100. रक्तदान पर शरीर से निकले खून की पूर्ति
a) संभव नहीं है
b) उपचार से की जाती है
c) शरीर स्वयं कर लेता है
d) व्यायाम से की जाती है