RAMAANYA TALENT SCHOLARSHIP EXAMINATION
रामन्या छात्रवृत्ति प्रतिभा परीक्षा 2021−22

General Instructions:

➢ **All questions are Objective types.**
➢ **All questions are compulsory.**
➢ **Each question carries 1 Marks.**
➢ **Four options are given for each question.**
➢ **No Negative mark for wrong questions.**
➢ **Choose the correct option and indicate it by blackening the appropriate circle [●] in the answer sheet.**

MARK− 80

TIME− 90 MINTUES

CLASS − 10

ENGLISH

1. Why was Lencho satisfied?

   (a) On seeing a new tractor in his field   (b) On seeing a new buffalo

   (c) On seeing the field of ripe corn with flowers.   (d) None of the above.

2. Mandela had to spent thirty years in −

   (a) Prison   (b) School   (c) Foreign   (d) None

3. What food did the seagull's mother get for it?

   (a) Earthworm   (b) Fish   (c) Insect   (d) Rodents

4. On which date did Anne record the incident in Mr. keesing's class in her diary?

   (a) 12 June, 1942   (b) 21 June, 1942   (c) 20 June, 1942   (d) 22 June, 1942

5. Who lived in Boggins Heights?

   (a) Maddie   (b) Peggy   (c) Wanda   (d) Cecile

6. How would you describe Miss Manson's feeling towards the class?

(a) Angry   (b) Upset   (c) Happy   (d) Cheerful

7.   Who is the author of "A Baker form Goa"?

         (a) Arup Kumar Dutta   (b) Lokesh Abrol   (c) Lucio Rodrigues   (d) None of these

8.   "Mijbil was neither hostile nor friendly" he was simply allof and indifferent" from the action of the given set of friend's,
Choose the person who's behavior is likely to resemble Mijbil's.

         (a) Akansksha rudely tells her best friend to stop calling

         (b) Piyush was amicable since the day he walked into his new classroom

         (c) Rishabh became nasty as soon as he started earning money.

         (d) Urvashi was distance for a while after losing her grandmother.

9.   Who is the author of the lesson "Madam Rides the Bus"?

         (a) Gavin Maxwell   (b) Valli Kkannan   (c) Paulo Coehlo   (d) Arup Kumar Dutta

10.   Which seed did Buddha ask kisa to bring?

         (a) Pumpkin seeds   (b) Mustard seeds   (c) Sunflower seeds   (d) Sesame seeds

11.   According to Lomov. What amount would be good enough for buying squeezer?

         (a) 60 Roubles   (b) 35 Roubles   (c) 25 Roubles   (d) 40 Roubles

12.   "In two weeks he had been transformed into a lithe, hard – muscled animal". What is the meaning of the world "lithe"?

         (a) Dirty   (b) Graceful   (c) Misbehaving   (d) Rude

13.   What was the name of the shop above which Anil lived?

(a) Laddu sweet shop   (b) Rasgulla sweet shop

(c) Jamun sweet shop   (d) Jumma sweet shop

14. Which choice is the correct reported speech of the following sentence?
My mother often says to me, "Honesty is the best Policy."

    (a) My mother often told me that honesty was the best policy.

    (b) My mother said that honesty was the best policy.

    (c) My mother taught me that honesty was the best policy.

    (d) My mother often says to me that honesty is the best policy.

15. She took lessons____ to swim.

    (a) learning   (b) to learn   (c) for learning   (d) learn

16. To keeps one's temper (Phrase)

    (a) To become hungry   (b) To be in good mood

    (c) To be aloof from   (d) None of these

17. Don't mix with the <u>bad hats</u>.
(Choose the meaning of the idiom/ phrase)

    (a) People of bad character   (b) People of poor status

    (c) People of poor status   (d) People with bad hats

18. Find the most opposite meaning of SUBVERSION

    (a) Destabilization   (b) Clarity   (c) Compliance   (d) Sanity

19. _____ is the antonym of "DISSIPATE".

    (a) Utilize   (b) Conserve   (c) Manage   (d) Organize

20. In which city were Anne and Margot sent to live with their grandmother?

(a) Berlin   (b) Aachen   (c) Munich   (d) Bonn

SCIENCE

21. An example of reaction in which precipitate is formed is :-

(a) Reaction between hydrogen and oxygen

(b) Reaction between lead nitrate and potassium iodide

(c) Reaction between hydrochloric acid and zinc.

(d) Reaction between sodium and water

22. In the double displacement reaction between aqueous potassium iodide and aqueous lead nitrate a yellow precipitate of lead iodide is formed. While performing the activity if lead nitrate is not available. Which of the given can be used in place of lead nitrate?

(a) Lead Sulphate   (b) Lead Acetate
(c) Ammonium Nitrate   (d) Potassium Sulphate

23. Soda ash chemical formula is

(a) $NaHCO_3$ (b) $Na2CO_3, 9H_2O$ (c) $Na2CO_3$ (d) $Na2CO_3, 10H_2O$

24. Which of following acid is present in tamarind?

(a) Ethanoic acid   (b) Sulphuric acid   (c) Nitric acid   (d) Tartaric acid

25. Galvanisation is method of protecting iron from rusting by coating with a thin layer of.

(a) Gallium   (b) Aluminum   (c) Zinc   (d) Silver

26. Which of the following represents Neopentyl Alcohol?

(a) $CH_3CH(CH_3)CH_2CH_2OH$ (b) $(CH)_3CCH_2OH$

(c) $CH_3CH_2CH_2CH_2OH$ (d) $CH_3CH_2CH(OH)CH_2$

27. Oxidation of alcohol in presence of alk. $kMnO_4$ results of formation of

     (a) Aldehyol   (b) Ester   (c) Acid   (d) Ketone

28. 14 elements after Actinium is called

     (a) Lantharides   (b) Actirides

     (c) D – block elements   (d) P – block elements

29. An element 'X' is placed in group 13 and third period of the periodic table. It burns in oxygen to form an oxide which is anphoteric in nature. Identify the chemical formula of its chloride.

     (a) CCl_4 (b) BCl_2 (c) $GaCl_3$ (d) $AlCl_3$

30. The internal energy reserve in autotrophs is

     (a) Glycogen   (b) Protein   (c) Starch   (d) Fatty acid

31. Gustatory receptors detect

     (a) Touch   (b) Smell   (c) Taste   (d) Temperature

32. Which of the following statements is correct about receptors?

     (a) Gustatory receptors detect taste while olfactory receptors detect smell

     (b) Both gustatory and olfactory receptors detect smell

     (c) Auditory receptors detect smell land olfactory receptors detect taste

     (d) Olfactory receptors detect taste and gustatory receptors smell

33. Which of the following is not a sexually transmitted disease?

(a) Warts   (b) Kalazar   (c) Syphillis   (d) Gonorrhoea

34.   If two pairs of characters are crossed in pea plants, then they show an independent inheritance because:-

(a) They are separate characters   (b) They are present on separate chromosomes

(c) Reproduction is of asexual type   (d) They are present on separate plants

35.   SI unit of power of lens is

(a) Micro meter   (b) Dioptre   (c) Kilometer   (d) Meter

36.   The fluid between the retina and the lens called

(a) Vitreous humour (b) Fluid humour   (c) Aqueous humour   (d) Aqua

37.   Which acid is used in cola to give it a biting sharp taste.

(a) Sulphuric acid   (b) Tartaric acid   (c) Phosphoric acid   (d) Citric acid

38.   What is the maximum resistance which can be made using five resistor each of 1/5 w?

(a) $1/5\Omega$ (b) 10Ω (c) 5Ω (d) 1Ω

39.   The most important safety device method used for protecting electrical appliances, from short circuiting or over loading is.

(a) Earthing   (b) Use of stabilizer   (c) Use of electric meter   (d) Fuse

40.   IUPAC name of the compound given below is

$$CH_3 - CH - CH_2 - CH_2 - CH_2 - \overset{Br}{\underset{Br}{C}} - ch_3$$

$$\underset{OH}{|}$$

(a) 6, 6- di bromoheptan -2- ol   (b) 2,2–di bromoheptan – 6- ol

(c) 6,6 dibromophetan – 2- al   (d) none of these

MATH

41. There are 312, 260 and 156 student in class X, XI an XII respectively, Buses are to be hired to take these students to a picnic, find the maximum number of students who can sit in a but if each bus of students number of students.

(a) 52   (b) 56   (c) 48   (d) 63

42. If the graph of a polynomials intersects the x-axis at exactly two points, then it

(a) can be a cubic or a quadratic polynomial

(b) cannot be a linear or a cubic polynomial

(c) can be a quadratic polynomial only

(d) can be a linear or a quadratic polynomial

43. The value of k, for which the system of equations $x + (k + 1)y = 5$ and $(k + 1)x + 9y = 8k - 1$ has infinitely many solutions is

(a) 2   (b) 3   (c) 4   (d) 5

44. Which of the following statement is TRUE?

(a) A quadratic equation in variable X is of the form $ax^2 + bx + c = 0$, where a, b, c
     are real numbers $a \neq o$

(b) If we can factorise $ax^2 + bx + c, a \neq o$ into product of two linear factors then roots
     can be found by equating each factor to zero

(c) A real number R is said to be a root of the quadratic equation $ax^2 + bx + c = o$
     if $a(R)^2 + bR + c = 0$

(d) All of above

45. In a flower bed, there are 23 rose plant in the first row, 21 in the second, 19 in the third, and so on. There are rose plants in the last row. How many rows are there in the flower bed ?

(a) 10 rows   (b) 20 rows   (c) 30 rows   (d) 15 rows

46. Amit starts his exercise with 25 push ups on Monday. He plans to increase 5 push ups every following Monday. How many push ups will he be doing on the 3rd Monday since he Started ?

    (a) 60   (b) 70   (c) 45   (d) 35

47. A girl of height 90 cm is walking away from the base of a lamp – past at a speed of 1.2 m/s. If the lamp is 3.6 m above the ground. Find the length of her shadow after 4 seconds.

    (a) 1.6 m   (b) 1.8 m   (c) 2.8 m   (d) 2.9 m

48. D and E are points on the sides AB and AC respectively of a ΔABC such that DE‖BC. Which of the following statement is true?

(i) $\Delta ADE \sim \Delta ABC$

(ii) (area of ΔADE / Area of ΔABC) $= \left(\frac{AD^2}{AB^2}\right)$

(iii) (area of ΔADE / are of $\Delta ABC = (AB^2/AD^2)$

    (a) only (iii)   (b) only (i)   (c) only (i) and (ii)   (d) all (i), (ii) & (iii)

49. The line segment joining the points (3,-1) and (-6,5) is trisected. the coordinates of point of trisection are

    (a) (3,3)   (b) (-3, 3)   (c) (3, -3)   (d) (-3,3)

50. The distance between the points (3, 4) and (8, -6) is

    (a) $2\sqrt{5}$ units   (b) $3\sqrt{5}$ units   (c) $\sqrt{5}$ units   (d) $5\sqrt{5}$ units

51. Which of the following numbers can form sides of a right angled triangle?

    (a) 13 cm, 27 cm, 15 cm   (b) 4 cm, 5 cm, 9 cm

    (c) 2 cm, 17 cm, 9 cm   (d) 10 cm, 6 cm, 8 cm

52. A tower stand vertically on the ground from a point on the ground which is 15m away from the foot of tower. If the height of tower is meters find the angle of elevation.

    (a) 120^0 (b) 60^0 (c) 30^0 (d) 90^0

53. A kite is flying, attached to a thread which is 165 m long. The thread makes an angle of 300 with the ground . The height of the kite from the ground, assuming that there is no stack in the thread is

    (a) 84 m   (b) 80 m   (c) 82.5 m   (d) 81.5 m

54. The angle between two tangents drawn from an external point to a circle is 1100. The angle subtended at the centre by the segments joining the points of contact to the centre of circle is :-

(a) 70^0 (b) 90^0 (c) 55^0 (d) 11^0

55. In the figure QA and PB are perpendicular on AB. If AO = 10 cm, BO = 6 cm and PB = 9 cm, then AQ is

       (a) 15 cm   (b) 12 cm   (c) 18 cm   (d) 20 cm

56. A wire is bent in the form of circle of radius 28 cm. it is re bent to form a square. The length of side of the square will be

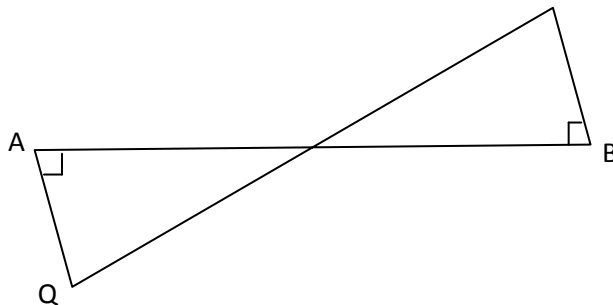   (a) 44 cm   (b) 40 cm   (c) 88 cm   (d) 30 cm

57. A hemispherical tank full of water is emptied by a pipe at the rate of $3\frac{4}{7}$ liters per second. How much time will it take to empty half the tank. If it is 3 m in diameter ? $\left(\pi = \frac{22}{7}\right)$

       (a) 16.5 minutes   (b) 17.5 minutes   (c) 18.5 minutes   (d) 19.5 minutes

58. The ratio between the LCM and HCF of 5, 15, 20 is :
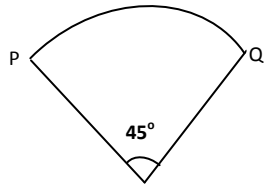
       (a) 9 : 1   (b) 4 : 3   (c) 11 : 1   (d) 12 : 1

59. The perimeters of two similar triangles are 25 cm and 15 cm respectively. If one side of first triangle is 9 cm, the corresponding side of the other triangle is

       (a) 5.6 cm   (b) 3 cm   (c) 4.5 cm   (d) 5.4 cm

60. A sector of a circle of radius 10.5 cm subtends an angle of 45^0 at the centre of the circle as in adjoining figure. Find the perimeter of sector.

(a) 37.25 cm   (b) 36 cm   (c) 21.25 cm   (d) 29.25 cm

GENERAL KNOWLEDGE

61. In which year Jharkhand was formed as a separate state?

   (a) 1998   (b) 2000   (c) 2001   (d) 2003

62. Who establishes the Jamshedpur city ?

   (a) JN Tata   (b) Dorabji Rata   (c) Ratan Tata   (d) Nusserwanji Tata

63. Who was the first chief minister of Jharkhand ?

   (a) Shibu Soren   (b) BabulaMarandi   (c) Arjun Munda   (d) Madhukoda

64. "Dhumkuria" social organization belongs to which tribal community?

   (a) Oraon   (b) kurukh   (c) Munda   (d) Santhal

65. Which one is the highest mountain peak of Jharkhand ?

   (a) Netarhat   (b) Trikut   (c) Parasnath   (d) Tagore Hill

66. The Jagannath Temple in Ranchi was established by-

   (a) Ram Shah   (b) Raghunath Shah   (c) AninathShahdeo   (d) DurJamsal

67. When was the chotanagpur tenancy act enforced?

   (a) 1907   (b) 1908   (c) 1909   (d) 1910

68. When did the santhalpargana tenancy act came into force?

   (a) 1857   (b) 1862   (c) 1867   (d) 1876

69. Which of the following is the largest producer of Alloy state in India?

(a) Bokaro   (b) Bhilai   (c) Durgapur   (d) Rourkela

70. Betla National park is reserved for?

(a) Deers   (b) Lions   (c) Bird and Aquatic animals   (d) None of these

71. When was the first aluminum industry established in Jharkhand?

(a) 1937   (b) 1950   (c) 1985   (d) 1934

72. Total number of Legislature Unicameral in Jharkhand?

(a) 81   (b) 85   (c) 92   (d) None of these

73. The Number of wildlife sanctuaries in Jharkhand?

(a) 9   (b) 5   (c) 3   (d) None of these

74. When was the production of iron steel started in Jharkhand?

(a) 1907   (b) 2015   (c) 1813   (d) 2000

75. Which is the most developed area of Jharkhand agriculture?

(a) Lower gold gate

(b) Agricultural region of the Ranchi plateau

(c) North eastern marginal agricultural region

(d) Agricultural region of Hazaribagh plateau

76. Which of the following is state flower of Jharkhand?

(a) Lotus   (b) Kopuphul   (c) Palash   (d) Orchid tree

77. Which of the following rocks are called "Metallic Reserves "?

(a) Dharwadyugene   (b) Apatite Rock phosphate   (c) Silver ore   (d) Cobalt

78. Which district of Jharkhand has lowest male literacy?

(a) Giridih   (b)Ramgarh   (c)Chatra   (d)Pakur

79. Which of the following river of Jharkhand has got Stone Age Tools in Deoghar?

    (a) Gandak   (b) Ganges   (c) Damodar River   (d) Brakar River

80. "Rescue and cultures of India", there is an information about of santhal Tribe, which author is associated with this book?

    (a) Imtiaz Ali   (b) Sriram Dalton   (c) D.N.Majumdar   (d) Imran zahid