UPKAR'S

RAILWAY RECRUITMENT CELL

GROUP 'D'

Recruitment Exam.

SOLVED PAPERS

Editorial Board
Samanya Gyan Darpan

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UPKAR PRAKASHAN, AGRA–2

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Solved Papers

1. A person walks north for 20 m, takes a right turn and walks cast for 10 m, takes another right turn and walks south for 10 m. From this point he returns straight to the starting point. What is the area covered by him ?
   - (A) 200 sq. m
   - (B) 175 sq. m
   - (C) 150 sq. m
   - (D) 125 sq. m

2. If A and B are two proper positive fractions and A > B, then which of the following is correct about $\frac{A}{B}$?
   - (A) It is greater than A
   - (B) It is lesser than A
   - (C) It is between B and A
   - (D) It is greater than 1

3. If x is a positive number, what will we get if square root of x is divided by cube root of x ?
   - (A) x
   - (B) $x^{\frac{2}{3}}$
   - (C) $x^{\frac{3}{2}}$
   - (D) $x^{\frac{1}{6}}$

4. Which of the following is equal to $z^{(a-b)}$?
   - (A) $z^a - z^b$
   - (B) $\frac{z^a}{z^b}$
   - (C) $z^a \times z^b$
   - (D) $z^a + z^{-b}$

5. Which of the following forces will be adequate to lift a box of 100 kg weight ?
   - (A) 100 N
   - (B) 98 N
   - (C) 1000 N
   - (D) 9·8 N

6. If the densities of a solid and a liquid are same, then the solid will—
   - (A) Float
   - (B) Sink
   - (C) Remain in equilibrium
   - (D) None of the above

7. A person standing in front of a tall building hears the echo of his sound after 2 seconds. What is the approximate distance of the building ?
   - (A) 400 m
   - (B) 666 m
   - (C) 512 m
   - (D) 632 m

8. What will a temperature of 32° Fahrenheit correspond to on the Celsius scale ?
   - (A) 100°C
   - (B) 273°C
   - (C) 0°C
   - (D) – 4°C

9. What is the freezing temperature of water on Kelvin scale ?
   - (A) 0 K
   - (B) 273 K
   - (C) 373 K
   - (D) – 273 K

10. What is a light year ?
    - (A) Unit of measuring distance
    - (B) Unit of measuring time
    - (C) Unit of measuring speed of light
    - (D) The year having 28 days in February

11. An electric potential will be generated across a copper coil—
    - (A) If a strong magnet is brought near it
    - (B) If a strong magnet is moved away from it
    - (C) If the coil is brought near a strong magnet
    - (D) All of the above

12. Which of the following is an example of a cartilage ?
    - (A) Ribcage
    - (B) Jaw bone
    - (C) Ear bone
    - (D) Teeth

13. Which of the following stimulus generally cause movement in plants ?
    - (A) Light
    - (B) Touch
    - (C) Gravity
    - (D) All of these

14. Deficiency of which of the following minerals causes goitre ?
    - (A) Phosphorus
    - (B) Iron
    - (C) Sodium
    - (D) Iodine

15. Which of the following is true about a bacteria cell ?
    (A) It is basically a plant cell
    (B) It is basically an animal cell
    (C) It can be either a plant cell or an animal cell
    (D) It is neither a plant cell not an animal cell

16. Which of the following needs another living cell to multiply ?
    (A) Bacteria   (B) Virus
    (C) Fungus   (D) Algae

17. A solution of pH value 10 is—
    (A) A basic solution
    (B) An acidic solution
    (C) A neutral solution
    (D) Cannot be said definitely

18. Which of the following liquids expands on cooling and contracts on heating within the temperature range of 0°C to 4°C ?
    (A) Water   (B) Alcohol
    (C) Mercury   (D) Petroleum

19. What are antibiotics ?
    (A) Chemicals which can kill bacteria
    (B) Chemicals which can kill viruses
    (C) Chemicals which can kill both bacteria and viruses
    (D) Chemicals which immunize human cells

20. Which of the following is a polymer ?
    (A) Bronze   (B) Steel
    (C) Plastic   (D) Glass

21. The weights of four persons A, B, C and D are in the ratio 5 : 6 : 7 : 8 respectively. If the average weight of A and D is 65 kg, what is the average weight of B and C ?
    (A) 65 kg   (B) 60 kg
    (C) 55 kg   (D) 13 kg

22. The average of 50 persons is 45 years. What will be their average age after 10 years ?
    (A) 45 years
    (B) 50 years
    (C) 55 years
    (D) Cannot be calculated unless actual age of each individual is known

23. A tank is 5 m long, 4 m wide and 3 m deep. If the tank is to be filled using bricks of 20 cm × 10 cm × 10 cm size, how many bricks will be required ?
    (A) 30000   (B) 3000
    (C) 20000   (D) 2000

24. The areas of two circles are in the ratio of 9 : 16. If the radius of the smaller circle is 81 cm, what is the radius of the bigger circle ?
    (A) 160 cm   (B) 256 cm
    (C) 144 cm   (D) 108 cm

25. If the two sides of a cuboid are increased by 10% and the third side is reduced by 20%, what will happen to its volume ?
    (A) The volume remains unchanged
    (B) Increase or decrease in volume depends upon the actual value of the lengths of the sides
    (C) Volume decreases
    (D) Volume increases

26. An area is measured as 4000 m^2 using a measuring stick of 1 m length. Later on it was discovered that the stick was 1 cm too long. What is the actual area ?
    (A) 4040 m^2 (B) 3960·40 m^2
    (C) 4080·40 m^2 (D) 3921·18 m^2

27. Convert 32% to ratio—
    (A) 8 : 25   (B) 0 : 32
    (C) 16 : 25   (D) 32 : 68

28. A sum of money is divided among four persons in the ratio of 5 : 10 : 15 : 20. What per cent of the highest share is the lowest share ?
    (A) 5%   (B) 10%
    (C) 20%   (D) 25%

29. The lengths of two rectangles are in the ratio of 3 : 4 and their widths are in the ratio 5 : 7. What will be the ratio of their areas ?
    (A) 15 : 28   (B) 20 : 21
    (C) $\frac{3}{5} : \frac{4}{7}$ (D) $\frac{3}{7} : \frac{4}{5}$

30. Three circles of radius R each are placed such that they touch each other at the circumference. What is the length of the sides of the triangle made by joining their centres ?

(A) 2 R (B) $\dfrac{(\sqrt{3})}{2\,R}$

(C) $\dfrac{(\sqrt{2})}{3\,R}$ (D) $(\sqrt{3})\,R$

31. A pilot takes off from North pole and flies 100 km South, takes a right turn and flies west for 100 km. He again takes a right turn and flies North for 100 km. Where is he now ?
   (A) 100 km West of the starting point
   (B) 100 km East of the starting point
   (C) 100 km South of the starting point
   (D) At the starting point

32. If two numbers are multiplied and one of the numbers is less than 0 while the other is more than 1, which of the following is true about the product ?
   (A) It is less than 1
   (B) It is less than 0
   (C) It is more than 0 but less than 1
   (D) Depends on the value of the numbers

33. If the line represented by the equation $3y + 5x + z = 0$ passes through point $(5, -7)$, what is the value of z ?
   (A) 4   (B) −4
   (C) 25 (D) 21

34. Which pair of points are most distant from each other ?
   (A) $(0, -10)$ and $(0, -20)$
   (B) $(10, 0)$ and $(20, 0)$
   (C) $(0, -10)$ and $(0, 20)$
   (D) $(-10, 0)$ and $(-20, 0)$

35. The average of a group of 30 numbers is 24 while the average of another group of 20 numbers is 32. What will be the average if both groups are merged together ?
   (A) 28   (B) 28·2
   (C) 27   (D) 27·2

36. One ball has to be selected from a box containing 10 balls. If the probabilities of getting selected of each ball are added, the result will be—
   (A) 0·1
   (B) 1
   (C) 10
   (D) $\dfrac{(1 \times 2 \times \ldots \times 9 \times 10)}{(10 \times 10)}$

37. A shopkeeper sells an item at the rate of ₹ 500 after making a loss of 20%. What was his cost price ?
   (A) ₹ 600   (B) ₹ 620
   (C) ₹ 625   (D) ₹ 580

38. The age of a father is thrice the age of his son. After 10 years, the father's age will be twice the age of his son. What is the age of the father ?
   (A) 25 years   (B) 30 years
   (C) 40 years   (D) 50 years

39. If x is a positive number and $2x - 3 < 7$, which of the following is correct ?
   (A) $5x + 10 > 25$ (B) $7x - 2 > 15$
   (C) $9x + 15 > 12$ (D) $6x + 5 > 20$

40. If three points are not on a straight line, how many planes are there which contain all the three points ?
   (A) One   (B) Two
   (C) Three (D) Infinite

41. Who has the power to dissolve the Lok Sabha ?
   (A) Speaker   (B) Prime Minister
   (C) President   (D) Parliament

42. Who is the chairperson of the Rajya Sabha ?
   (A) Prime Minister (B) Speaker
   (C) President   (D) Vice-President

43. What is the minimum age for becoming the Governor of a State ?
   (A) No age limit   (B) 35 years
   (C) 30 years   (D) 25 years

44. What is one of the minimum qualifications for becoming a judge of the Supreme Court ?
   (A) 5 years practice in High Court
   (B) 10 years practice in High Court
   (C) 15 years practice in High Court
   (D) 20 years practice in High Court

45. Who presides over the sessions of the Lok Adalats ?
   (A) Retired judges
   (B) District Judge
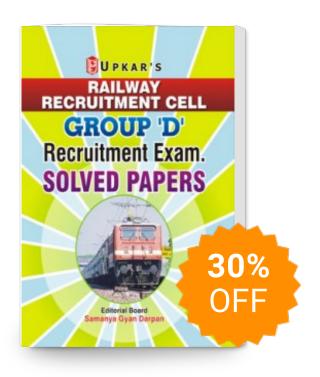   (C) Tehsildar
   (D) District Magistrate

46. What is the term RAM associated with the computers ?
    (A) Random Access Memory
    (B) Read Access Memory
    (C) Real Advance Memory
    (D) Rechargeable Advance Memory

47. What is a computer virus ?
    (A) A type of virus which eats computer parts
    (B) A harmful computer program
    (C) A harmful computer part
    (D) A damaged computer part

48. What is the purpose of fuses provided in the electrical circuits ?
    (A) To melt and break the circuit in case of accidental high currents
    (B) To regulate voltage in case of accidental high currents
    (C) To bye-pass sudden high voltage
    (D) None of the above

49. In which of the following continents is Somalia situated ?
    (A) Asia   (B) Europe
    (C) Australia   (D) Africa

50. What are Dakshin Gangotri and Maitree ?
    (A) India's permanent stations in Antarctica
    (B) Indian Peace Keeping Missions
    (C) Hill Stations in Himalayas
    (D) Currents in the Indian ocean

51. A stop watch was started when the time was 10 hours 15 min and 20 seconds in the morning. It was stopped at 5 hours 5 minutes 10 seconds in the evening. What is the time interval recorded by the stop watch ?
    (A) 6 hrs., 49 min., 50 sec.
    (B) 7 hrs., 49 min., 50 sec.
    (C) 6 hrs., 50 min., 50 sec.
    (D) 7 hrs., 50 min., 50 sec.

52. If x, $2x$ and $3x$ are the angles of a triangle, what is the value of x ?
    (A) 30°   (B) 45°
    (C) 90°   (D) 180°

53. What is khadar ?
    (A) Deposits made by the rivers at their mouth

(B) Low hills in the southern part of Himalayas
(C) Low hills in the eastern part of Himalayas
(D) The flood plains of the rivers in the Northern plains

54. Thal Ghat, Bhor Ghat and Pal Ghat are the passes in the—
    (A) Eastern Ghats
    (B) Western Ghats
    (C) Himalayas
    (D) Vindhya range

55. Which of the following is a coral island ?
    (A) Andaman and Nicobar
    (B) Sundarbans
    (C) Lakshadweep
    (D) Sri Lanka

56. Why are a large number of peninsular rivers seasonal ?
    (A) Because of the scant rainfall
    (B) They do not receive water except during rainy season
    (C) Their water percolates down because of rocky beds
    (D) Their catchment areas are very small

57. Between whom the Indus Water Treaty was signed for water sharing ?
    (A) India and China
    (B) India and Pakistan
    (C) India and Afghanistan
    (D) India and Nepal

58. Where is Wular lake situated ?
    (A) Kashmir   (B) Bangladesh
    (C) West Bengal   (D) Odisha

59. In which of the following countries is the Thar desert ?
    (A) India   (B) Pakistan
    (C) South Africa   (D) Sudan

60. Which of the following places has the highest variation in the day and night temperatures ?
    (A) Coastal region of Kerala
    (B) Coastal region of Tamil Nadu
    (C) Hilly region of Kashmir
    (D) Desert region of Rajasthan

61. Which of the following is correct about Jyotirao Phule ?
    (A) He was opposed to the injustices of the caste system
    (B) He was opposed to the custom of Sati
    (C) He was in favour of caste system
    (D) He supported child marriage

62. Which of the American Presidents coined the slogan "Government of the people, by the people, for the people" ?
    (A) George Washington
    (B) Abraham Lincoln
    (C) J.F. Kennedy
    (D) Eisenhower

63. Who among the following coined the slogan "Freedom is my birthright and I shall have it" ?
    (A) Lala Lajpat Ray
    (B) Bipin Chandra Pal
    (C) Bal Gangadhar Tilak
    (D) Subhash Chandra Bose

64. Who among the following renounced his Knighthood after the Jalianwala Bagh Massacre ?
    (A) Rabindra Nath Tagore
    (B) Mahatma Gandhi
    (C) Jawaharlal Nehru
    (D) Subhash Chandra Bose

65. Which of the following leaders was instrumental in the merger of princely States in the Union of India ?
    (A) Mahatma Gandhi
    (B) Jawaharlal Nehru
    (C) Vallabh Bhai Patel
    (D) C. Rajagopalachary

66. What are the two main ethnic groups of Sri Lanka ?
    (A) Tamil and Sinhalese
    (B) Telugu and Tamil
    (C) Telugu and Sinhalese
    (D) Kannada and Sinhalese

67. Which of the following crops was not known to the people of Indus Valley Civilization ?
    (A) Barley   (B) Wheat
    (C) Rice   (D) Potato

68. Which of the following was the first stage as per the Ashrama system ?
    (A) Sanyasa   (B) Vanaprastha
    (C) Brahmacharya   (D) Grihastha

69. Which of the following relations are correct ?
    (A) Gautam Buddha-Sakya Prince
    (B) Mahavira-Sakya Prince
    (C) Gautam Buddha-Lichchhavi Prince
    (D) None of the above

70. What was the main role of vaishyas under the Varna system in the ancient India ?
    (A) Waging wars
    (B) Collecting taxes for the kings
    (C) Trade and agriculture
    (D) Serving the other three varnas

71. Which of the following was not a major city of the Mauryan empire ?
    (A) Pataliputra   (B) Taxila
    (C) Ujjain   (D) Rameshwaram

72. Who was called a griha pati in the Northern parts of the ancient India ?
    (A) Husband of the eldest woman in the house
    (B) The head servant of the king's household
    (C) The eldest member of the family
    (D) Small independent land owner

73. In which year did the rebellion against the rule of East India Company took place ?
    (A) 1957   (B) 1857
    (C) 1947   (D) 1847

74. Around 13th century which of the present States was called Gauda ?
    (A) Karnataka   (B) Kerala
    (C) West Bengal   (D) Bihar

75. Which of the following Mughal Rulers became rulers at the ages of 12 and 13 years ?
    (A) Akbar and Babur
    (B) Babur and Humayun
    (C) Akbar and Humayun
    (D) Akbar and Aurangzeb

76. Which of the following princes rebelled against the Mughal emperor Aurangzeb ?
    (A) Kamran   (B) Jahangir
    (C) Shah Jahan   (D) Akbar

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