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JE Question paper 2009

Based on Memory

1. Which of the following was the capital of 'Kuru' Mahajanapada?

    1) Mathura   2) Indraprastha   3) Videha   4) Mithila

2. Out of the following remains excavated in Indus Valley, which one indicates the commercial and econimic development?

    1) Pottery   2) Seals   3) Boats   4) Houses

3. Which of the folliwng is not an example of literature of Vedic tradition?

    1) Vedas   2) Puranas   3) Vedangas   4) Purvas

4. The Indian king who opposed Alexander was-

    1) Ambhi   2) Porus

    3) Dhananand   4) Mahapadmananda

5. Who laid the foundation of the city Patliputra?

    1) Udayan   2) Ashoka

    3) Bimbisara   4) Mahapadmananda

6. What was the name of Budha's Charioteer?

    1) Manna   2) Channa

    3) Devadata   4) Raghu

7. The most famous Kushan ruler was-

    1) Rudradaman   2) Vasudeva I

    3) Kanishka   4) Ashoka

8. Between which two rulers was the first Battle of Panipat fought?

    1) Akbar and Bahlol Lodi   2) Babur and Ibrahim Lodi

    3) Bairam Khan and Sikandar Lodi   4) Shahjahan and Daulat Khan Lodi

9. When and where was the 'Ghadar Party' founded?

1) America, 1913 2) England, 1917

3) Denmark, 1921 4) Scotland, 1925

10. Gandhiji's movement of boycotting the foreign goods aimed at-

1) Promotion of Welfare State 2) Creating anti-British sentiments

3) Promotion of Cottage Industry 4) Full independence

11. Which one of the following leaders belonged to the extremist wing of the Congress?

1) Aurobindo Ghosh 2) Dadabhai Naoroji

3) G.K.Gokhale 4) S.N.Banerjee

12. At the Second Round Table Conference, the Indian National Congress was represented by-

1) Jawaharlal Nehru 2) Rajendra Prasad

3) M.K.Gandhi 4) Vallabh Bhai Patel

13. Earth's gravitational pull in minimum in-

1) Troposphere 2) Stratosphere

3) Thermosphere 4) Exosphere

14. The most abundant element in the Earth's Crust is

1) Aluminum 2) Silica 3) magnesium 4) Sodium

15. Which of the following is not a Kharif crop?

1) Rice 2) Maize 3) Cotton 4) Barley

16. 'Palghat' is a division of which of the following Railways?

1) Southern Railway 2) South Eastern Railway

3) South Central Railway 4) South Western Railway

17. Which of the following Unin Terriotories of India has the lowest population?

1) Pondicherry 2) Daman and Diu

3) Lakshadweep 4) Andaman and Nicobar

18. 'Kakolat Water fall' is situated in which of the following States?

1) Bihar 2) Uttar Pradesh

3) Himachal Pradesh 4) Uttarakhand

19. Which one of the following longitudes determines the Indian Standard Time?

1) 85.5°E 2) 86.5°E 3) 84.5°E 4) 82.5°E

20. The Nagarjunasagar Dam is built across which of the following rivers?

1) Krishna   2) Chambal   3) Kosi   4) Sutlej

21. Which of the following is a scalar quantity?

1) Electric Field   2) Average Velocity

3) Power   4) Magnetic Momentum

22. If the velocity of a body is doubled-

1) Its Kinetic Energy is doubled   2) Its potential Energy is doubled

3) Its Momentum is doubled   4) Its Acceleration is doubled

23. Clothes keep us warm in winter because they-

1) supply heat

2) do not rediate heat

3) prevent air from contacting the body

4) prevent the heat of the body from escaping

24. Permanent magnet can be made from-

1) Cobalt   2) Aluminum   3) Zinc   4) Lead

25. Who among the following is known as 'Father of Biology'?

1) Aristotle   2) Darwin   3) Lamark   4) Hippocrates

26. Spiral shape bacteria is called-

1) Diplococus   2) Bacillus   3) Cocus   4) Spirillum

27. Which of the folloiwng bones is not found in human leg?

1) Tibia   2) Humerus   3) Femur   4) Fibula

28. The enzyme found in human saliva is-

1) Renin   2) Ptylin   3) Tenin   4) Resin

29. Virus of 'Bird Flu' is also known as-

1) NH51   2) NH15   3) H5N1   4) N5H1

30. 'Gypsum' is an ore of-

1) Iron   2) Calcium   3) Sodium   4) Magnesium

31. Which of the folloiwng is used for killing rats?

1) Zinc Phosphide   2) Duralumin   3) Zinc Oxide   4) Sodium Nitrate

32. Which of the following is not an isotope of Hydrogen?

1) Protium   2) Eritium   3) Deuterium   4) Tritium

33. Which of the following is not an Input Device?

1) Keyboard   2) Scanner   3) Mouse   4) Printer

34. http://www.discovery.com is an example of-

1) Web brower   2) Website

3) Web page   4) Internet Service Provider

35. A prescribed set of well-defined instructions for solving mathematical problems is called-

1) A Compiler   2) A code

3) A description   4) An algorithm

36. Which part of the Indian Constitution deals with the Directive Principles of the State Policy?

1) Part I   2) Part III   3) Part IV   4) Part V

37. The 44th amendment in the Constitution of India removed which one of the following rights from the category of Fundamental Rights?

1) Freedom of Speech   2) Equality before Law

3) Right of Property   4) Freedom of Religion

38. Who was the first Chief Minister of Bihar?

1) Krishna Singh   2) K.B. Sahay

3) Mahamaya Prasad Sinha   4) Karpoori Thakur

39. Who was the Prime Minister of India just before Dr. Manmohan Singh?

1) H.D. Deve Gowda   2) I.K. Gujral

3) P.V. Narasimha Rao   4) Atal Bihari Vajpayee

40. Japan's Parliament is known as-

1) Diet   2) Dail   3) Yuan   4) Tokyo House

41. 'Jamini Roy' was a famous-

1) Dance   2) Magician   3) Cartoonist   4) Painter

42. 'NCERT' stands for-

1) National Committee of Educational Research and Training

2) National Council of Educational Research and Training

3) National Council for Educational Research and Teaching

4) National Council of Employment Resources and Training

43. Who directed the film 'Slumdog Millionaire'?

1) Anil Kapoor   2) Prakash Jha

3) Danny Boyle   4) Simon Beautoy

44. Who is the first female amputee to climb Mount Everest?

1) Samina Baig   2) Arunima Sinha

3) Bachhendri Pal   4) Raha Moharrak

45. Who was declared 'Man of the Series' in the ICC Champions Trophy 2013?

1) Shikhar Dhawan   2) Virat Kohli

3) Ravindra Jadeja   4) MS Dhoni

46. Which among the following States is considered India's most flood-prone State?

1) Uttarakhand   2) Jharkhand

3) Bihar   4) Nagaland

47. Who among the following is the author of the book 'Mudra Rakshasa'?

1) Kalidasa   2) Kalhana   3) Kautilya   4) Vishakhadatta

48. 'Vishnupad Temple' is situated in-

1) Gaya   2) Varanasi   3) Rajgir   4) Nalanda

49. 'Jiradei', the birthplace of Dr. Rajendra Prasad comes under which district of Bihar?

1) Patna   2) Madhubani   3) Gaya   4) Siwam

50. Indian Space Research Organisation (ISRO) is situated in-

1) Bengaluru   2) Hyderabad   3) Ahmedabad   4) Mumbai

51. X is mightier than Y and Y is mightier than Z. P is mightier than Q but inferior to Y. Q is mightier than Z. Who is the weakest among all?

1) X   2) Z   3) Q   4) P

52. If each of the digits in the number '92581473' are arranged in ascending order, what will be the difference between the digits, which are fourth from the right and third from the left in the new arrangement?

1) One   2) Two   3) Three   4) Four

53. In a certain code, EAT is written as 318 and CHAIR is written as 24156. How will TEACHER be written in that code?

1) 8812346   2) 8321436   3) 8312436   4) 8313426

54. If NOIDA is written as 39658, how will INDIA be written?

1) 36568   2) 63568   3) 63569   4) 65368

55. In a certain code language, '253' means 'books are old', '546' means 'man is old' and '378' means 'buy good books'. What stands for 'are' in that code?

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

56. If 'oranges' are 'apples', 'bananas' are 'apricots', 'apples' are 'chillies', 'apricots' are 'oranges' and 'chillies' are 'bananas', then which of the following are green in colour?

1) Apricots   2) Apples   3) Chillies   4) Bananas

57. In a certain code, ROAD is written as URDG. How will SWAN written in that code?

1) VXDQ   2) VZDQ   3) VZCP   4) UXDQ

58. If '+' means '÷', '×' means '÷' '÷' means '+' and '-' means '×', then which of the following will be the value of the expressions?

$252 \times 9 - 5 + 32 \div 92$

1) 95   2) 168   3) 192   4) 200

59. If P denotes '÷', Q denotes '×' R denotes '+' and S denotes '−', then.

18 Q 12 P 4 R 5 S 6 = ?

1) 95   2) 53   3) 51   4) 57

60. The following equation may be corrected by interchanging which two signs?

$5 \times 15 \div 7 - 20 + 4 = 77$

1) − and +   2) × and ÷   3) + and ÷   4) + and ×

61. In the alternatives given below, three are alike in some manner while the fourth one is different. Choose the odd one.

1) Garo   2) Khasi   3) Kangra   4) Jaintia

62. In the alternatives given below, three are alike in some manner while the fourth one is different. Choose the odd one.

1) Triangle   2) Tangent   3) Square   4) Rhombus

63. In the alternatives given below, three are alike in some manner while the fourth one is different. Choose the odd one.

1) Up   2) Down   3) Above   4) Small

64. In the alternatives given below, threee are alike in some manner while the fourth one is different. Choose the odd one.

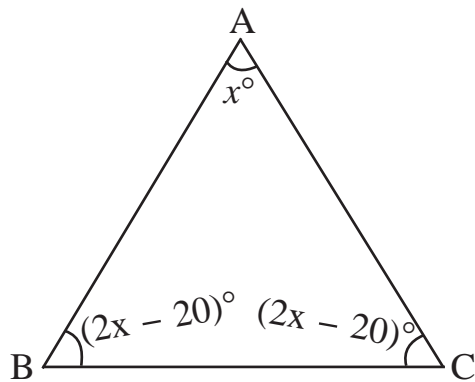1) Run   2) Walk   3) Think   4) Jump

65. 'Flower' is related to 'Essence' in the same way as 'Oven' is related to-

1) Vapour   2) Fire   3) Heat   4) Steam

66. 'Gravity' is related to 'Pull' in the same way as 'Magnetism' is related to-

1) Repulsion   2) Separation   3) Attraction   4) Push

67. Choose the correct alternative that will continue the same pattern and replace the question mark (?) in the given series.

120, 99, 80, 63, 48, ?

1) 35   2) 38   3) 39   4) 40

68. Choose the correct alternative that will continue the same pattern and replace the question mark (?) in the given series.

1, 5, 14, 30, 55, 91, ?

1) 130   2) 140   3) 150   4) 160

69. Choose the correct altrnative that will continue the same pattern and replace the question mark (?) in the given series.

2, 12, 36, 80, 150, ?

1) 194   2) 210   3) 252   4) 258

70. Choose the correct alternative that will continue the same pattern and replace the question mark (?) in the given series.

1) KSU   2) LMN   3) SOV   4) SOW

71. Choose the correct alternative that will continue the same pattern and replace the question mark (?) in the given series.

M, N, O, L, R, I, V, ?

1) A   2) E   3) F   4) H

72. A and B are brothers. C and D are sisters. A's son is D's brother. How is B related to C?

1) Father   2) Brother   3) Grandfather   4) Uncle

73. Introducing a man, a woman said, 'His wife is the only daughter of my father'. How is that man related to the woman?

1) Brother   2) Father-in-law

3) Husband   4) Maternal Uncle

74. A man is facing West. He turns 45° in the clock-wise direction and then another 180° in the same direction and then 270° in the anti-clockwise directon. Which direction is he facing now?

1) South   2) North-West   3) West   4) South-West

75. A man starts from a point 'X' and walks 3 km southwards, then he turns left and walks 6 km. In which direction is he from the starting point?

1) South-West   2) South-East   3) West   4) South

76. The H.C.F. of 595 and 252 is-

1) 1   2) 7   3) 11   4) 17

77. The L.C.M. of 26, 56, 104 and 182 is-

1) 456   2) 728   3) 748   4) 1274

78. $\dfrac{6.5 \times 4.7 + 6.5 \times 5.3}{1.3 \times 7.9 - 1.3 \times 6.9} = ?$

1) 3.9   2) 39   3) 34.45   4) 50

79. A student was asked to divide a number by 3. But, instead of dividing it, he multiplied it by 3 and got 29.7. What was the correct answer?

1) 3.3   2) 9.3   3) 9.8   4) 9.9

80. $5852 \div 28 \times ? - 1653 = 1064$

1) 9   2) 13   3) 15   4) 18

81. If ₹ 1440 is divided into two parts in which one part is $\dfrac{7}{9}$ of the second, then the smaller part is-

1) ₹ 405   2) ₹ 630   3) ₹ 810   4) ₹ 1035

82. If $\sqrt{4^n} = 1024$, then the value of n is-

1) 5   2) 8   3) 10   4) 12

83. If $\dfrac{1120}{\sqrt{P}} = 80$, then P = ?

1) 14   2) 140   3) 196   4) 225

84. A man covers half of his journey at 6 km/ hr and the remaining half at 3 km/ hr. His average speed is-

1) 4 km/ hr   2) 4.5 km/ hr   3) 9 km/ hr   4) 3 km/ hr

85. The average weight of 8 boys is increased by 1.5 kg when one of the boys, who weights 65 kg, is replaced by a new boy. The weight of the new boy is-

1) 70 kg   2) 74 kg   3) 76 kg   4) 77 kg

86. The $\frac{4}{5}$ th of a certain number is 64. Half of the number is-

1) 40   2) 32   3) 80   4) 16

87. The ratio between the present ages of Ravi and Jai is 3:2. If Ravi was 6 years older than Jai, four years back, how old is Jai now?

1) 6 years   2) 12 years   3) 18 years   4) Data inadequate

88. $\left[\frac{81}{169}\right]^{\frac{-1}{2}} = ?$

1) $\frac{3}{169}$ 2) $\frac{2}{169}$ 3) $\frac{9}{13}$ 4) $\frac{13}{9}$

89. The length of a rectangle is increased by 60%. By what perent would the width have to be decreased to maintain the same area?

1) $37\frac{1}{2}$ %   2) 60%   3) 75%   4) $66\frac{2}{3}$%

90. By selling a tape-recorder for ₹ 950, I lose 5%. What percent shall I gain by selling it for a 1040?

1) 4%   2) 4.5%   3) 40%   4) 5%

91. When 1 is added to each of the given two numbers, their ratio becomes 3 : 4 and when 5 is subtracted from each, the ratio becomes 7 : 10. The numbers are:

1) 8, 11   2) 11, 15   3) 26, 35   4) 27, 36

92. 5 men or 9 women can do a piece of work 19 days. In how many days will 3 men and 6 women working together will finish the work?

1) 10 days   2) 15 days   3) 87 days   4) 38 days

93. Two pipes can fill a tank in 20 minutes will 30 minutes respectively. If both the pipes are opened simultaneously, then the tank will be filled in-

1) 10 minutes   2) 12 minutes   3) 15 minutes   4) 25 minutes

94. A train 132 metre long passes a telegraph post in 6 seconds. The speed of the train is-

1) 70 km/ hr   2) 72 km/ hr   3) 79.2 km/ hr   4) 80 km/ hr

95. The radius of the wheel of a vehicle is 70 cm. The wheel makes 10 revolutions in 5 seconds. The speed of the vehicle is-

1) 29.46 km/ hr   2) 31.68 km/ hr   3) 36.25 km/ hr   4) 32.72 km/ hr

96. The sides of a triangle are in the ratio $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$. If the perimeter is 52 cm, then the length of the smallest side is-

1) 9 cm   2) 10 cm   3) 11 cm   4) 12 cm

97. The area of the base of a rectangular tank is 6500 cm^2 and the volume of water contained in it is 2.6 cubic metres. The depth of the water tank is-

1) 2.5 metre   2) 3 metre   3) 5.5 metre   4) 4 metre

98. Two angles are complementary, if the sum of their measures is-

1) 90°   2) 100°   3) 180°   4) 360°

99. What is the value of X in the given figure?

A

$x°$

$(2x - 20)°$ $(2x - 20)°$

B   C

1) 30   2) 40   3) 44   4) 64

100. $\sin^2 20° + \sin^2 70° - \tan^2 45° = ?$

1) 0   2) 2   3) 1   4) $\frac{1}{2}$

ANSWERS

1-2; 2-2; 3-2; 4-2; 5-3; 6-2; 7-3; 8-2; 9-1; 10-2; 11-1; 12-3; 13-4; 14-1; 15-4; 16-2; 17-3; 18-1; 19-4; 20-1; 21-3; 22-3; 23-4; 24-2; 25-1; 26-4; 27-2; 28-2; 29-3; 30-2; 31-1; 32-2; 33-4; 34-2; 35-4; 36-3; 37-3; 38-1; 39-4; 40-1; 41-4; 42-2; 43-3; 44-2; 45-1; 46-3; 47-4; 48-1; 49-4; 50-1; 51-2; 52-2; 53-3; 54-2; 55-1; 56-4; 57-2; 58-4; 59-2; 60-3; 61-3; 62-2; 63-4; 64-3; 65-3; 66-3; 67-1; 68-2; 69-3; 70-1; 71-2; 72-4; 73-3; 74-4; 75-2; 76-2; 77-2; 78-4; 79-1; 80-2; 81-2; 82-3; 83-3; 84-1; 85-4; 86-1; 87-2; 88-4; 89-1; 90-1; 91-3; 92-2; 93-2; 94-3; 95-2; 96-4; 97-4; 98-1; 99-3; 100-1.