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PREVIOUS
PAPER

Assistant Loco Pilot PATNA - 2013 Based on Memory

- Which of the following was the capital of 'Kuru' Mahajanapada?
1) Mathura 2) Indraprastha 3) Videha 4) Mithila
- Out of the following remains excavated in Indus Valley, which one indicates the commercial and economic development?
1) Pottery 2) Seals 3) Boats 4) Houses
- Which of the following is not an example of literature of Vedic tradition?
1) Vedas 2) Puranas 3) Vedangas 4) Purvas
- The Indian king who opposed Alexander was-
1) Ambhi 2) Porus
3) Dhananand 4) Mahapadmananda
- Who laid the foundation of the city Patliputra?
1) Udayan 2) Ashoka
3) Bimbisara 4) Mahapadmananda
- What was the name of Budha's Charioteer?
1) Manna 2) Channa
3) Devadata 4) Raghu
- The most famous Kushan ruler was-
1) Rudradaman 2) Vasudeva I
3) Kanishka 4) Ashoka
- 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

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 radiate 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) Lamarck 4) Hippocrates
26. Spiral shape bacteria is called-
1) Diplococcus 2) Bacillus 3) Coccus 4) Spirillum
27. Which of the following 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) Ptyalin 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 following 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 browser 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) Karpooori 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 Beaufoy
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

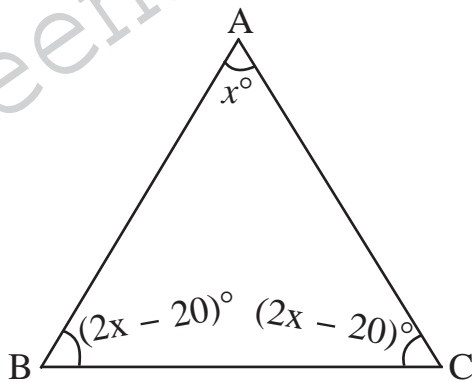
55. In a certain code language, '253' means 'books are old', '546' means 'man is old' and '378' means 'buy good books'. What stands for 'are' in that code?
1) 2 2) 4 3) 5 4) 6
56. If 'oranges' are 'apples', 'bananas' are 'apricots', 'apples' are 'chillies', 'apricots' are 'oranges' and 'chillies' are '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, three 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 alternative 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 direction. 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. $\frac{6.5 \times 4.7 + 6.5 \times 5.3}{1.3 \times 7.9 - 1.3 \times 6.9} = ?$
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 $\frac{7}{9}$ 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 $\frac{1120}{\sqrt{P}} = 80$, 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 percent 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?



- 1) 30 2) 40 3) 44 4) 64
100. $\sin^2 20^\circ + \sin^2 70^\circ - \tan^2 45^\circ = ?$
- 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.