

Delhi Police HC (AWO TPO)

**Previous Year Paper
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DELHI POLICE HEAD CONSTABLE AWO/TPO EXAM

Held on : 22.03.2014

1. What is 15 percent of Rs 34?
(1) Rs. 3.40 (2) Rs. 3.75
(3) Rs. 4.50 (4) Rs. 5.10
2. 88% of $370 + 24\%$ of $210 - ? = 118$
(1) 256 (2) 258
(3) 268 (4) 358
3. I gain 70 paise on Rs.70. My gain percent is
(1) 0.1% (2) 1%
(3) 7% (4) 10%
4. The length of a room is 5.5 m and width is 3.75 m. find the cost of paving the floor by slabs at the rate of Rs.800 per sq. meter.
(1) Rs. 15000
(2) Rs. 15550
(3) Rs. 15600
(4) Rs. 16500
5. The difference between the length and breadth of a rectangle is 23 m. If its perimeter is 206 m, then its area is
(1) 1520 square metre
(2) 2420 square metre
(3) 2480 square metre
(4) 2520 square metre
6. Find the surface area of a $10\text{ cm} \times 4\text{ cm} \times 3\text{ cm}$ brick
(1) 84 sq. cm (2) 124 sq. cm
(3) 164 sq. cm (4) 180 sq. cm
7. January 1, 2007 was Monday. What day of the week lies on Jan 1, 2008?
(1) Monday (2) Tuesday
(3) Wednesday (4) Sunday
8. In a simultaneous throw of two coins, the probability of getting at least one head is
(1) $\frac{1}{2}$ (2) $\frac{1}{3}$
(3) $\frac{2}{3}$ (4) $\frac{3}{4}$
9. Three coins are tossed. What is the probability of getting at most 2 heads?
(1) $\frac{3}{4}$ (2) $\frac{1}{4}$
(3) $\frac{3}{8}$ (4) $\frac{7}{8}$
10. Find the odd one out in 3, 5, 7, 12, 17, 19
(1) 19 (2) 17
(3) 13 (4) 12
11. From a point P on a level ground, the angle of elevation of the top of a tower is 30° . If the tower is 100 m high, the distance of point P from the foot of the tower is
(1) 149 metre (2) 156 metre
(3) 173 metre (4) 200 metre
12. Sachin is younger than Rahul by 4 years. If their ages are in the respective ratio of 7 : 9, how old is Sachin ?
(1) 16 years (2) 18 years
(3) 28 years
(4) None of these
13. Rajeev's age after 15 years will be 5 times his age 5 years back. What is the present age of Rajeev?
(1) 9 (2) 10
(3) 7 (4) 5
14. Find a number such that when 15 is subtracted from 7 times the number, the result is 10 more than twice the number
(1) 5 (2) 6
(3) 4 (4) 8
15. 252 can be expressed as a product of prime number as
(1) $2 \times 2 \times 3 \times 3 \times 7$
(2) $2 \times 2 \times 2 \times 3 \times 7$
(3) $3 \times 3 \times 3 \times 3 \times 3 \times 7$
(4) $2 \times 3 \times 3 \times 3 \times 7$
16. When a moving bus suddenly applies brakes, the passenger sitting in it fall in forward direction. This can be explained by
(1) Theory of relativity
(2) Newton's 1st law
(3) Newton's 2nd law
(4) Newton's 3rd law
17. Which one among the following is not a source of renewable energy?
(1) Hydroelectricity
(2) Solar energy
(3) Fuel cells
(4) Wind energy
18. Light year is the unit of
(1) Distance
(2) Time
(3) Intensity of light
(4) Mass
19. Force is the product of
(1) mass and velocity
(2) mass and acceleration
(3) weight and velocity
(4) weight and acceleration
20. The weight of a human body is
(1) same at every place on the earth's surface
(2) maximum at the Poles
(3) maximum at the equator
(4) more on the mountains than the plains
21. Water has its maximum density at
(1) 100°C (2) 4°C
(3) 0°C (4) -4°C
22. If two pieces of ice are mutually pressed against each other then these pieces stick because
(1) at higher pressure the melting point of ice decreases

- (2) at higher pressure the melting point of ice increases
(3) at higher pressure the melting point of ice firstly decreases and then increases
(4) there exists no relation between the pressure and melting point of the ice
23. "X-Ray" was invented by
(1) Hopkins
(2) Roentgen
(3) Marconi
(4) Morse
24. Which one among the following would expand the most on being heated?
(1) Water (2) Alcohol
(3) Glass (4) Air
25. The unit of sound is
(1) Decimal (2) Decibel
(3) bd (4) Bid
26. Ultrasonic wave has its frequency
(1) less than 20 Hz
(2) more than 20 Hz
(3) less than 20,000 Hz
(4) more than 20,000 Hz
27. If a ship moves from fresh water into seawater, it will
(1) sink completely
(2) sink a little bit
(3) rise a little higher
(4) remain unaffected
28. Which of the following is the best conductor of heat ?
(1) Mercury (2) Water
(3) Ether (4) Benzene
29. A glass of water does not turn into ice as it reaches 0°C . It is because
(1) water does not solidify at 0°C
(2) because the water is inside the glass
(3) because glass is hot
(4) water solidifies at 0 K only
30. Who was the inventor of atomic theory?
(1) Rutherford
(2) Madam Curie
(3) John Dalton
(4) Albert Einstein
31. Minerals are
(1) liquids
(2) inorganic solids
(3) gases
(4) All of the above
32. Artificial silk is also called
(1) Rayon (2) Dacron
(3) fiber glass (4) nylon
33. Which is second most abundant metal in the earth's crust?
(1) Iron
(2) Aluminum
(3) Copper
(4) Zinc
34. At what height does a geo synchronous satellite orbits the earth?
(1) 35,786 km
(2) 35,687 km
(3) 35,867 km
(4) 36,000 km
35. Teflon is a/an
(1) fluoro carbon
(2) hydro carbon
(3) pesticide (4) insecticide
36. Which one among the following is a major source of sugar?
(1) Watermelon
(2) Beetroot
(3) Sugarcane
(4) Date
37. The longest bone of the human body is
(1) Stepis (2) Fibula
(3) Tibia (4) Femur
38. The largest cell of the human body is
(1) WBC
(2) RBC
(3) Nerve Cell
(4) None of these
39. Through which of the following organs maximum nutritional elements in the blood are absorbed?
(1) Mouth
(2) large intestine
(3) small intestine
(4) abdomen
40. Jaundice causes the infection in
(1) Brain (2) Liver
(3) Kidney (4) Spleen
41. Who among the following did not participate in the 1857 Revolt against the British?
(1) Tantia Tope
(2) Tipu Sultan
(3) Rani Lakshmibai
(4) Nana Saheb
42. Which of these are essentials of a democratic system?
(1) Free and fair elections
(2) Equality of opportunity
(3) Protection of rights
(4) All of the above
43. The Southernmost point of India is
(1) Cape Comorin
(2) Point Calimere
(3) Indira Point
(4) Port Blair
44. Who was the founder of the "Prarthana Samaj"?
(1) Ramakrishna Paramahansa
(2) Swami Vivekananda
(3) Atmaram Panduranga
(4) Dayanand Saraswati
45. The main chemical responsible for Bhopal Gas Tragedy was
(1) Methyl isocyanate
(2) Bromine
(3) Chlorofluoro carbon
(4) Chlorine
46. Which of the following languages is not specified in Schedule 8 of the Indian Constitution?

- (1) Sanskrit (2) Sindhi
(3) English (4) Nepali
47. A computer is made of
(1) RAM
(2) Processor
(3) Hard Disk
(4) All of the above
48. The longest river of Indian peninsula is
(1) Kaveri (2) Narmada
(3) Godavari (4) Krishna
49. Who led the Dandi March?
(1) Mohandas Karamchand Gandhi
(2) Rajmohan Gandhi
(3) Devdas Gandhi
(4) Hiralal Mohandas Gandhi
50. Which of the following type of mountain is Himalaya?
(1) Residual (2) Block
(3) Fold (4) Volcanic
51. How many members can be nominated to Rajya Sabha by the President of India?
(1) 10 (2) 12
(3) 14 (4) 16
52. By which process does Sulphur Dioxide bleach colours?
(1) Decomposition
(2) Oxidation
(3) Reduction
(4) Dehydration
53. Which of the following is an indirect tax?
(1) Wealth Tax
(2) Estate Duty
(3) Capital Gains Tax
(4) Excise Duty
54. Which of the following is the oldest mountain range?
(1) Aravali (2) Himalaya
(3) Vindhya (4) Shivalik
55. Who among the following was 10th President of India?
(1) Giani Zail Singh
(2) Pranab Mukherjee
(3) Neelam Sanjeeva Reddy
(4) R Venkataraman
56. Winner of the Australian Open Men's Singles Title in 2014 is
(1) Andy Murray
(2) Roger Federer
(3) Stanlias Wawrinka
(4) Novak Djokovic
57. Tony Abbott is the Prime Minister of
(1) Belgium
(2) Canada
(3) Australia
(4) New Zealand
58. Who was the viceroy of India when India attained freedom?
(1) Lord Curzon
(2) Lord Mountbatten
(3) Lord Minto
(4) Lord Hardinge
59. In which year was the land acquisition act passed?
(1) 2000 (2) 2013
(3) 2014 (4) 1894
60. The first Indian Satellite Aryabhata was launched in the year
(1) 1972 (2) 1975
(3) 1977 (4) 1979
61. Complete the number series 1, 9, 25, 49, ____, 121
(1) 64 (2) 81
(3) 91 (4) 100
62. Complete the number series 6, 12, 21, ____, 48
(1) 33 (2) 38
(3) 40 (4) 45
63. Mountain : Hill :: Tree : ?
(1) Ground (2) Leaf
(3) Forest (4) Shrub
64. Rupee : India :: Yen : ?
(1) Turkey
(2) Bangladesh
(3) Japan
(4) Pakistan
65. Find the odd one out
(1) Pear (2) Apple
(3) Litchi (4) Orange
66. Find the odd one out
(1) Calendar (2) Year
(3) Date (4) Month
67. Pointing to a lady in the photograph, Shaloo said, "Her son's father is the son-in-law of my mother." How is Shaloo related to the lady?
(1) Aunt (2) Sister
(3) Mother (4) Cousin
68. Pointing towards a boy, Vee-na said, "He is the son of only son of my grandfather". How is that boy related to Veena?
(1) Uncle
(2) Brother
(3) Cousin
(4) None of these
69. Marathon : Race :: hibernation : ?
(1) Winter (2) Bear
(3) Dream (4) Sleep
70. Look at this series : 2, 1, $\left(\frac{1}{2}\right), \left(\frac{1}{4}\right), \dots$. What number should come next ?
(1) $\left(\frac{1}{3}\right)$ (2) $\left(\frac{1}{8}\right)$
(3) $\left(\frac{2}{8}\right)$ (4) $\left(\frac{1}{16}\right)$
71. If PETAL is to FLOWER then
(1) salt : pepper
(2) tyre : bicycle
(3) base : ball
(4) sandals : shoes
72. Which one among the following is the main ingredient in Cement ?
(1) Gypsum (2) Limestone
(3) Clay (4) Ash
73. If $A > B$, $B > C$ and $C > D$, then which of the following conclusions is definitely wrong?
(1) $A > D$ (2) $A > C$
(3) $D > A$ (4) $B > D$

74. If L denotes +, M denotes -, N denotes \times , P denotes \div , then $14\ N\ 10\ L\ 42\ P\ 2\ M\ 8 = ?$

- (1) 153 (2) 216
(3) 248 (4) 251

75. From 11 to 50, how many numbers are there which are exactly divisible by 7 but not by 3?

- (1) Two (2) Four
(3) Five (4) Six

Directions (76-78) : Ravi and Kunal are good in Hockey and Volleyball. Sachin and Ravi are good in Hockey and Baseball. Gaurav and Kunal are good in Cricket and Volleyball. Sachin, Gaurav and Michael are good in Football and Baseball.

76. Who is good in Hockey, Cricket and Volleyball?

- (1) Sachin (2) Kunal
(3) Ravi (4) Gaurav

77. Who is good in Baseball, Cricket, Volleyball and Football?

- (1) Sachin (2) Kunal
(3) Gaurav (4) Ravi

78. Who is good in Baseball, Volleyball and Hockey?

- (1) Sachin (2) Kunal
(3) Ravi (4) Gaurav

79. Poles : Magnet :: ? : Battery

- (1) Energy (2) Power
(3) Terminals (4) Cells

80. Architect : Building :: Sculptor : ?

- (1) Museum (2) Statue
(3) Chisel (4) Stone

81. $7589 - ? = 3434$

- (1) 4242 (2) 4155
(3) 1123 (4) 11023

82. The sum of first five prime numbers is

- (1) 0 (2) 1
(3) 2 (4) 3

84. The value of $(1 + 0.1 + 0.01 + 0.001)$ is

- (1) 1.001 (2) 1.011
(3) 1.003 (4) 1.111

85. $34.95 + 240.016 + 23.98 =$

- (1) 298.0946
(2) 298.111
(3) 298.946
(4) 299.09

86. $100 + 50 \times 2 =$

- (1) 75 (2) 150
(3) 200 (4) 300

87. How many pieces of 85 cm length can be cut from a rod 42.5 metres long?

- (1) 30 (2) 40
(3) 50 (4) 60

88. David obtained 76, 65, 82, 67 and 85 marks (out of 100) in English, Mathematics, Physics, Chemistry and Biology. What is the average of the marks obtained?

- (1) 65 (2) 69
(3) 72 (4) 75

89. The average of first five multiples of 3 is

- (1) 3 (2) 9
(3) 12 (4) 15

90. The ratio 5 : 4 expressed as a percent equals

- (1) 12.5% (2) 40%
(3) 80% (4) 125%