# 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 cm × 4 cm × 3 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 × 2 × 3 × 3 × 7
    (2) 2 × 2 × 2 × 3 × 7
    (3) 3 × 3 × 3 × 3 × 3 × 7
    (4) 2 × 3 × 3 × 3 × 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) Chlorofluro 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 Aryabhatta 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, Veena 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, $\left(\frac{1}{2}\right), \left(\frac{1}{4}\right),$ ...... 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 ×, P denotes /, 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 × 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%