

Instructions:

1. Answer all questions.
 2. All questions carry equal marks (1.5 marks).
 3. No negative marks for wrong answers.
 4. Total duration: 90 minutes.
 5. Choose the BEST answer.
- 1) The biggest chord of a circle is
 - a) Radius
 - b) diameter
 - c) tangent
 - d) chord
 - 2) If $a:b = 5:9$ and $b:c = 4:7$ find $a:b:c$
 - a) 5:9:7
 - b) 20:36:63
 - c) 10:18:14
 - d) 20:81:63
 - 3) The value of $1 - \tan 45^\circ$ is
 - a) $1 - \sqrt{3}$
 - b) $\sqrt{3} - 1$
 - c) 0
 - d) 2
 - 4) Of the fractions, which one is the greatest
 - a) $\frac{2}{5}$
 - b) $\frac{3}{7}$
 - c) $\frac{4}{11}$
 - d) $\frac{3}{8}$
 - 5) The sum of two numbers is 5 and their products is 6. Then one of the number is
 - a) 3
 - b) 4
 - c) 1
 - d) 5
 - 6) Area of Equilateral triangle of side 10 cm is _____ cm^2
 - a) $20\sqrt{3}$
 - b) $15\sqrt{3}$
 - c) $25\sqrt{3}$
 - d) $10\sqrt{3}$
 - 7) A boy scored 113 marks out of 150. Find the percentage of his mark?
 - a) 78.7 %
 - b) 80.1%
 - c) 75.3%
 - d) 73.6%
 - 8) Area of the largest circle inscribed in a square of side 6cm is
 - a) $9\pi\text{cm}^2$
 - b) $6\pi\text{cm}^2$
 - c) $3\pi\text{cm}^2$
 - d) $4\pi\text{cm}^2$
 - 9) In ΔABC $\angle A = 30^\circ$ $\angle B = 90^\circ$ and $AC = 4\text{cm}$. Then Area is
 - a) $\sqrt{3}$
 - b) $4\sqrt{3}$
 - c) $3\sqrt{4}$
 - d) $2\sqrt{3}$
 - 10) If $a + b = 6$ and $a \times b = 3$ then $a^2 + b^2 = ?$
 - a) 27
 - b) 30
 - c) 29
 - d) 3
 - 11) If $\frac{3+x}{4+x} = \frac{6+x}{8+x}$, then x is
 - a) 2
 - b) 1
 - c) 0
 - d) none
 - 12) The cost price of a chair is Rs. 350. For how much should it be sold to gain 10%
 - a) 300
 - b) 385
 - c) 415
 - d) None
 - 13) 1 cubic metre is _____ litres
 - a) 10,00,000
 - b) 100
 - c) 10
 - d) 1000
 - 14) Principal amount = Rs. 3200, Rate of interest = 7% per annum, Simple interest = Rs. 672. Period in years = ?
 - a) 1
 - b) 2
 - c) 3
 - d) 4
 - 15) $2\frac{6}{7} \div 12\frac{1}{2} =$
 - a) $\frac{35}{8}$
 - b) $\frac{3}{7}$
 - c) $\frac{8}{35}$
 - d) $\frac{250}{7}$
 - 16) $\sqrt{1.69 \times 4.41} =$
 - a) 3.72
 - b) 2.73
 - c) 2.37
 - d) 3.27
 - 17) If the sides of a triangle are 3cm, 4cm, 5cm, then the area is
 - a) 6cm^2
 - b) 3cm^2
 - c) 4cm^2
 - d) 5cm^2

- 37) The term 'Grand Slam' is associated with
a)Hockey b)Boxing c)Swimming d)Tennis
- 38) World's highest mountain peak is in
a)Nepal b)China c)India d)Pakistan
- 39) Who is known as 'Black Pearl'?
a)Carl Lewis b)Pele c)Mohammed Ali d)Micheal Jordan
- 40) The first Indian who won the individual Olympic gold medal
a)P.T. Usha b)Leander Paes c)Abhinav Bhindra d)Vijayender Singh
- 41) 'Grand Trunk Express' train runs between
a)Chennai and New Delhi b)Chennai and Howrah
c)Mumbai and New Delhi d)Mumbai and Howrah
- 42) Next Olympic will be held at
a)Paris b)Moscow c)London d)New York
- 43) 'Yen' is the currency of
a)North Korea b)China c)South Korea d)Japan
- 44) Defence Minister of India
a)A.K. Antony b)Pranab Kumar Mukherji
c)P. Chidambaram d) Sharad Pawar
- 45) First woman speaker of Lok Sabha is
a)Sheila Kaul b)Mira Kumar c)Sheela Dixit d) Sonia Gandhi
- 46) The term 'epicentre' is associated with
a)Shipping b)Sports c)Earthquake d)Geometry
- 47) Which is the capital of Bhutan?
a)Dhakka b)Kathmandu c)Taipei d) Thimpu
- 48) First Indian woman who won an Olympic medal
a)P.T. Usha b)Karnam Malleswari
c)Shiney Wilson d)Sania Mirza
- 49) Which country is known as 'The playground of Europe'?
a)France b)Britain c)Italy d)Switzerland
- 50) One man starts from A and travels 8 kms towards north. Then he turns to his right and travels 6 kms and reaches at B. The distance between A and B is..
a) 7kms b)9kms c)12kms d)10kms
