

MATHEMATICS**2021****SECTION 'A' (COMPULSORY)****(MULTIPLE CHOICE QUESTIONS) (Marks: 36)**

Note: Attempt all the questions of this section. (ii) Do not copy down the part questions. Write only the answer against the proper number of the question and its part according to the question paper. (iii) Each question carries 1 mark.

Q.1 Choose the correct answer for each from the given options:

- (1) $3_5 \times 3_5 = :$
 6_5 14_5 16_5 24_5
- (2) In decimal system 110_2 is:
 3 6 9 12
- (3) The median of 45, 36, 12, 45, 10, 16 and 32 is:
 32 45 10 36
- (4) The rate of Zakat is:
 45% 50% 5.2% 2.5%
- (5) The Cartesian products of sets A and B is written as:
 $A \cdot B$ $A \times B$ $B \times A$ $B \cdot A$
- (6) Σ is a Greek symbol which is called:
 Sigma Theta Pie None of these
- (7) $\{1, 2, 3, 4, \dots\}$ is the set of:
 Even Numbers Natural Numbers
 Prime Numbers None of these
- (8) $x : 8 :: 20 : 40$ then the value of x will be:
 12 4 20 18
- (9) The mode of 4, 5, 7, 9, 4, 10 is:
 9 10 5 4
- (10) The exponential form of $\log_5 125 = 3$ is:
 $125^3 = 5$ $3^5 = 125$
 $5^3 = 125$ $125^5 = 3$
- (11) $5.7 \times 10^7 = :$
 570000 5.7000000
 57000000 5.700000
- (12) In the decimal number system, the base is:
 2 5 8 10
- (13) $1_2 + 1_2 + 1_2 + 1_2 = :$
 10_2 100_2 1_2 11_2
- (14) If $\log_{10} 10 = x$, then $x = :$
 0 10 1 2
- (15) 64 out of 80 is:
 80% 50% 60% 20%
- (16) The formula of Arithmetic Mean is:
 $\frac{\Sigma fx}{x}$ $\frac{\Sigma fx}{\Sigma f}$ $\frac{\Sigma f}{\Sigma fx}$ $\frac{\Sigma f}{x}$

- (17) $2^0 \times 5^0 = :$
 10 2 5 1

- (18) In $\sqrt[3]{24}$, 3 is called:
 Radicand Index
 Quantity None of these