

2023
Mathematics
SEC
Paper : SEC0108303
Quantitative Aptitude and Reasoning
Time: 1.30 Hours
Full Mark: 30

The figures in the margin indicate full marks for the question.

1. (a) Which of the following are rational number 1x5=5

$\pi, e, \sqrt{2}, \sqrt{3}, \sqrt{4}, \sqrt{9}$

- (b) Fillup the blank of the series

Z, W, T, Q,

- (c) Fill up the blank of the series

40, 30, 22, 16,

- (d) If 20% of A = 30% of B = $\frac{1}{6}$ of C

then A:B:C: is -

(i) 2:3:6 (ii) 3:2:16, (iii) 10:15:18, (iv) 15:10:18

- (e) Write the comparision between table and diagram.

2. Answer any five (5) questions of the following. 2x5=10

- (a) If GOODNESS is coded as HNPCODTR then how GREATNESS can be written in that coding language as-

- (A) HQZSMFRT
(B) HQFZURTM
(C) HQFZUODTR
(D) HQFZUMFRT

(e) Find the mode from the following frequency distribution.

Classinterval : 0-10, 10-20, 20-30, 30-40, 40-50

Frequencen : 5 6 8 30 10

Also write two merits and demerits of mode.

(f) The everage of five numbers is 58. The average of the first two numbers is 48.5 and the averages of last two numbers is 53.5. What is the third number ?
