

MODEL QUESTION PAPER - 2

MATHEMATICS PART - I

Model Question Paper - 2

Total Marks: 40

Time: 2 Hours

- (A) Four alternative answers are given for every sub-question. Choose the correct alternative and write its alphabet with sub-question number. [4]
- i. Which of the following quadratic equations has roots 2, -1 ?
 (A) $x^2 + x + 2 = 0$ (B) $x^2 - x - 2 = 0$
 (C) $x^2 + 2x - 2 = 0$ (D) $x^2 - 2x + 2 = 0$
- ii. In an A.P., the first term is -5 and last term is 45. If the sum of all the terms is 120, then n is equal to
 (A) 4 (B) 5 (C) 6 (D) 7
- iii. Cumulative frequencies in a grouped frequency table are useful to find
 (A) Mean (B) Median (C) Mode (D) All of these
- iv. When a registered dealer sells goods to another registered dealer under GST, then this trading is termed as
 (A) BB (B) B2B (C) BC (D) B2C
- (B) Solve the following sub-questions.
 Write any two quadratic equations.
- i. 'Pawan Medical' supplies medicines. On some medicines the rate of GST is 12%, then what is the rate of CGST and SGST?
- ii. Two digit numbers are formed using digits 2, 3 and 5 without repeating a digit. Write the sample space 'S'.
- iii. If $D_x = 36$, $D_y = 45$ and $D = 3$ are the values of the determinants for certain simultaneous equations x and y, find x.

- (A) Complete the following activities and rewrite it (Any two):
 Given below is the distribution of turnover (In lakh ₹) of 50 departmental stores in a year.

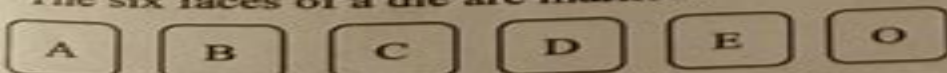
Turnover (In lakh ₹)	5 - 15	15 - 25	25 - 35	35 - 45	45 - 55
No. of stores	5	10	20	13	2

By completing the following table, find mean turnover of the stores.

Class Turnover (In lakh ₹)	Class mark x_i	Frequency (No. of stores) f_i	Frequency \times Class mark $f_i x_i$
5 - 15	10	5	50
15 - 25	20	10	200
25 - 35	30	20	600
35 - 45	40	13	520
45 - 55	50	2	100
Total	-	$N = \sum f_i = \square$	$\sum f_i x_i = \square$

Mean = $\bar{X} = \frac{\sum f_i x_i}{N}$...[Formula]
 = \square lakhs

The six faces of a die are marked.



The event M is getting a vowel on the upper face of the die when it is tossed. Complete the following activity.

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