

# 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.

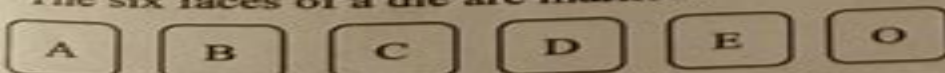
Turnover (In lakh ₹)	5 - 15	15 - 25	25 - 35	35 - 45	45 - 55
No. of stores	5	10	20	13	2

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.

# Mid Year Question Paper 2 mathematics Grade9

**Peipei Pang**



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polymeraseis the main transcription enzyme transcription begins when rna polymerase binds to a promotersequence near the beginning of a gene directly or through helper proteins

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web jul 30 2022 step 1 transcription which we just learned about here the dna sequence of a gene is rewritten in the form of rna in eukaryotes like you and me the rna is processed and often has a few bits snipped out of it to make the final product called a messenger rna or mrna step 2 translation in this stage the mrna is

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web in transcription the dna code is read and in translation the code is used to build up protein molecules dna is a triplet code each triplet a group of three bases codes for a specific amino acid

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web discover gene expression where protein is synthesised and dna sequences are transcribed and translated this involves messenger transfer and ribosomal rna

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web about this chapter the flow of genetic information in cells from dna to mrna to protein is described by the central dogma which states that genes specify the sequence of mrnas which in turn specify the sequence of amino acids making up all proteins the decoding of one molecule to another is performed by specific proteins and rnas

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