

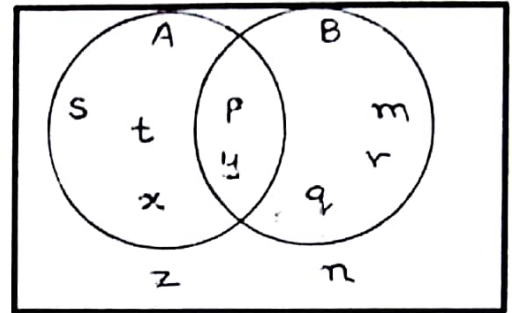
Q.1 A) Solve the following sub-questions : (2)

- i) Write the polynomial $x^3 - 7 + 2x^2 + 3x$ in standard form
- ii) Find the class mark of the class 45-50

B) Solve the following sub question : (2) u

i) Observe the Venn diagram and write

- a) A' B) $(A \cap B)'$



Q.2 A) Solve the following sub –questions :

i) Draw the histogram for the following frequency distribution : (4)

House rent (in ₹) per month	4000-6000	6000-8000	8000-10000	10000-12000
Number of families	200	240	300	150

ii) A ready made garment shopkeeper gives 5% discount on the dress of ₹ 1000 and charges 5% GST on the remaining amount. Then what is the purchase price of the dress for customer ?

B) Solve the following sub –questions : (6)

i) Two-digit numbers are formed from the digits 9,7,5,3,2 without repetition. Find the probability of the events :

- a) A is the event that the number is even
- b) B is the event that the number is divisible by 3

ii) Shri Patil purchased 140 shares of a company at MV ₹ 1150. FV of the share is ₹ 100. Brokerage is paid at 0.3% and GST on brokerage is 18 % .Find i) the total value of the shares ii) the brokerage paid iii) GST paid on brokerage iv) total investment for purchasing shares

Q.3 A) Solve the following sub-question :

(4)

i) The median of the following data is 52.5

If the total frequency is 100, find the values of x and y

Class	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	2	5	x	12	17	20	y	9	7	4

B) Solve the following activity based question

(2)

1) A 'cleanliness committee of two from 2 men (M_1, M_2) and two women (W_1, W_2) is to be formed :

i) The committee of 2 men = { }

ii) The Committee of 2 women = { }

iii) The Committee of 1 man and 1 women = { , , , }

iv) The sample space = { _____ }
