regard, will be entertained after the examination.

Note : Attempt ***Five*** **questions in all, selecting** ***one*** **question from each Unit I-IV and Q. No. 1 is compulsory.**

Compulsory Question

1. (a) Define disjoint sets with *two* examples. **2**

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Unit I

2. (a) Solve for x : **8**

$$\log_x 0.008 = 3$$

(b) Prove that : **8**

$$A \cap (B \cap C) = (A \cap B) \cap C.$$

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Unit II

4. (a) If ${}^{n}P_{r} = 1320$, ${}^{n}C_{r} = 220$, find n and r. **8**

(b) How many words each of 3 vowels and 2 consonants can be formed from the letters of the word INVOLUTE ? **8**

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term of an A.P. is $\frac{1}{p}$. Find the $(pq)^{th}$ term. **8**

(b) The sum of the first p, q, r terms of an A. P. are a, b, c respectively. Prove that :

$$\frac{a}{p}(q-r)+\frac{b}{q}(r-p)+\frac{c}{r}(p-q)=0 . \quad \textbf{8}$$

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diagram : 8

Expenditure on	Amount spent (in Rs.)
Food	400
Clothing	200
House Rent	500
Fuel & Lighting	700
Miscellaneous	200

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