

7. Prove or Disprove, "Every subgroup of an abelian group is normal".
8. Give an example of a ring which is not a field.
9. Draw the Hasse diagram of  $\langle X, \leq \rangle$ , where  $X = \{2, 4, 5, 10, 12, 20, 25\}$  and the relation  $\leq$  be such that  $x \leq y$  if  $x$  divides  $y$ .
10. Is there a Boolean Algebra with five elements? Justify your answer.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Show that the hypotheses, "It is not sunny this afternoon and it is colder than yesterday," "We will go swimming only if it is sunny," "If we do not go swimming, then we will take a canoe trip," and "If we take a canoe trip, then we will be home by sunset" lead to the conclusion "We will be home by sunset". (8)
- (ii) Prove that  $\sqrt{2}$  is irrational by giving a proof by contradiction. (8)

Or

- (b) (i) Prove  $((p \vee q) \wedge \neg(\neg p \wedge (\neg q \vee \neg r))) \vee (\neg p \wedge \neg q) \vee (\neg p \wedge \neg r)$  is a tautology. (8)
- (ii) Show that  $(\exists x)(P(x) \wedge Q(x)) \Rightarrow (\exists x)P(x) \wedge (\exists x)Q(x)$ . Is the converse true? (8)
12. (a) (i) Prove by mathematical induction that  $6^{n+2} + 7^{2n+1}$  is divisible by 43 for each positive integer  $n$ . (8)
- (ii) A factory makes custom sports cars at an increasing rate. In the first month only one car is made, in the second month two cars are made, and so on, with  $n$  cars made in the  $n^{\text{th}}$  month.
  - (1) Set up recurrence relation for the number of cars produced in the first  $n$  months by this factory.
  - (2) How many cars are produced in the first year? (8)

Or

- (b) (i) Find the generating function of Fibonacci sequence. (8)
- (ii) A total of 1232 students have taken a course in Spanish, 879 have taken a course in French, and 114 have taken a course in Russian. Further, 103 have taken courses in both Spanish and French, 23 have taken courses in both Spanish and Russian, and 14 have taken courses in both French and Russian. If 2092 students have taken atleast one of Spanish, French, and Russian, how many students have taken a course in all three languages? (8)

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