

**2016**

**MCA**

**5th Semester Examination**

**AI LAB.**

**PAPER—MCA-507**

**(Practical)**

*Full Marks : 100*

*Time : 3 Hours*

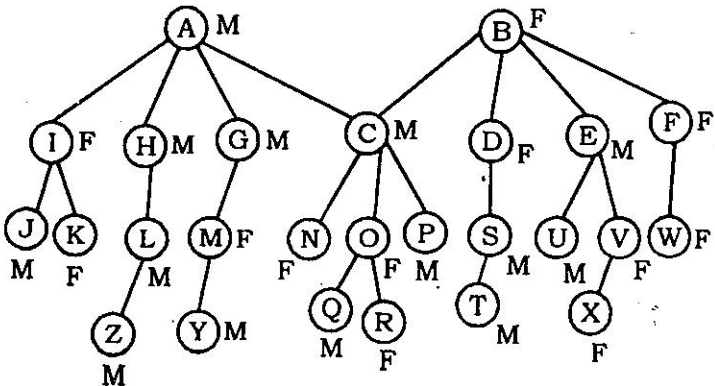
*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

Answer any one question.

Consider the following family tree —



*(Turn Over)*

Here 'M' stands for male and 'F' stands for female.

Now derive the following relations using PROLOG —

30+30+30

1. Sister, niece, nephew.
2. Nephew, brother, aunty.
3. Nephew, cousin, grandparent.
4. Sister, aunty, brother.
5. Brother, niece, aunty.
6. Grandparent, cousin, mother.
7. Uncle, sister, father.
8. Aunty, brother, cousin.
9. Brother, sister, uncle.
10. Greatgrandparent, mother, brother.
11. Father, uncle, cousin.
12. Greatgrandparent, father, sister.
13. Greatgrandparent, mother, aunty.
12. Cousin, nephew, uncle.
12. Brother, cousin, aunty.

Viva — 10

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