

**BACHELOR OF COMPUTER APPLICATIONS (Pre-revised)  
(BCA)**

**Term-End Practical Examination**

**December, 2017**

00494

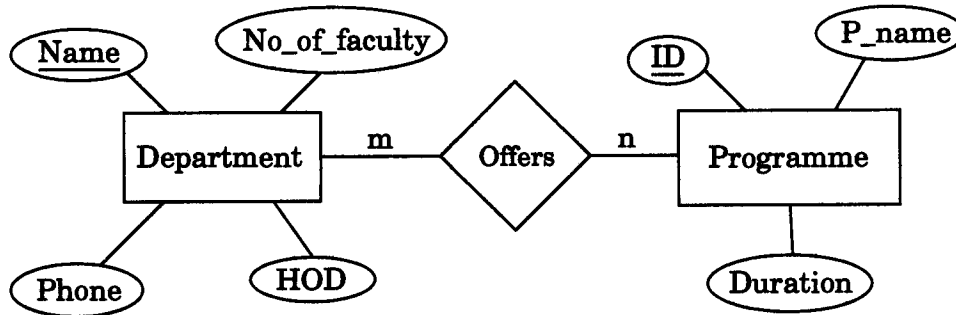
**CS-67(P)/S2 : RDBMS LAB**

*Time : 2 Hours*

*Maximum Marks : 75*

- Note :**
- (i) *There is one **compulsory** question in this paper carrying 50 marks. Rest 25 marks are for viva-voce.*
  - (ii) *You may use any RDBMS for implementation.*
  - (iii) *Make and state suitable assumptions, if any.*

1. Consider the following ER diagram :



(HOD – Name of the head of department)

A programme can be offered by a department or a programme can be offered jointly by more than one department. A department can offer many programmes. Perform the following tasks for the ER diagram given above :

- (a) Design and implement normalised relations/tables for the ERD. Include primary key, validation checks and referential integrity constraints in your implementation. 20
- (b) Enter 5 – 6 sets of meaningful data in every table that you have created in part (a). 10

(c) Design and implement the following forms/queries/reports for the database created by you :

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- (i) Create two forms — one each for entering information of 'Department' and 'Programme'.
  - (ii) List the names of all the departments who offer more than two programmes but have less than 5 faculty members.
  - (iii) List the programmes whose duration is more than one year.
  - (iv) List the programmes in the order of programme name (P\_name).
  - (v) List the department name, name of the head of department, programme ID and programme name of "Computer Science" department.
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