

**NEW**

**2015**

**MBA 3rd Semester Examination**

**PROGRAMMING LANGUAGES**

**AND**

**COMPUTER NETWORKING PRINCIPLES**

**(Specialisation : Operations and Systems Management)**

**PAPER—OS-303**

*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.*

**1. Answer any *eight* questions of the following : 5×8**

**(a) Draw the flow chart diagram of a Fibonacci series of 1 1 2 3 5 8 13.**

*(Turn Over)*

- (b) Write an Algorithm of quadratic Equation to find out the roots.
- (c) Write a short note on : Polymorphism and Inheritance.
- (d) What are the differences between procedural language vs. OOP.
- (e) What do you mean by Exception Handling ?
- (f) What are the different types of relationships in DBMS ?
- (g) Explain DDL and DML.
- (h) What is the goal of ERP ?
- (i) What are the drawbacks of Bus Topology ?
- (j) What is data encapsulation ?
- (k) What are the differences between : Internet and Intranet ?
- (l) Write a short note on Client Server Architecture.

2. Answer any *four* questions :

10×4

- (a) (i) Describe the OSI model.  
(ii) Difference between TCP/IP and OSI.
- (b) Write a short note on :  
(i) Electronic Data Interchange and its Applications ;  
(ii) Wireless Networks, Network Security.
- (c) (i) What is called Normalization ?  
(ii) Normalize the table :

S_id	S_Name	S_Address	Subject_opted
401	Adam	Noida	Bio
402	Alex	Panipat	Maths
403	Stuart	Jammu	Maths
404	Adam	Noida	Physics

- (d) What is E-R model ? What is an Entity ? What is an Entity type ? What is an Entity set ?

- (e) What are MAC addresses ? How can you identify the IP class of a given IP address ?
- (f) (i) Describe the three levels of data abstraction ?
- (ii) What is a view ? How it is related to data independence ?

**[ Internal Assessment : 20 ]**

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