2014

M B A

3rd Semester Examination

Subject : PROGRAMMING LANGUAGES AND COMPUTER
NETWORKING PRINCIPLES

(Specialization : Operations and Systems Management)

PAPER—OS 304

Full Marks : 100

Time : 3 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Write the answers to Questions of each Half in separate books.

(First Half)

(Marks : 50)

1. Answer any *four* questions :   5×4

    (a) Write the characteristics of algorithm;

    (b) Differentiate between Procedural Language and Object
    Oriented Programming Language;

(c) Write the advantages of Client–Server Database system;

(d) Give a flowchart to find sum of three numbers;

(e) What is SQL ? Why is it needed ?

(f) What is the role played by a complier and linker ?

2. Answer any *two* of the following : 10×2

(a) Write short notes on :

(i) Polymorphism;

(ii) Inhesitance.

(b) Consider the following database student (rollno. name, subject, gender) write SQL query for the following ·

(i) Insart a data is the above table;

(ii) Find the name of all the student;

(iii) Find roll no. and subject of the students whose gender is female. 3+3+4

(c) (i) What do you mean by Object ?

(ii) What do you mean by Constructors and Destructors ?

(iii) Explain Runtime Exceptions ?

(iv) What is Encapsulation ? 2+4+2+2

[Internal Assessment : 10]

(Second Half)

(Marks : 50)

3. Answer any *four* of the following :　　　　5×4

   (a) What are the advantages of ring topology over star topology ?

   (b) What are the responsibilities of applications layer in OSI model ?

   (c) What is a Ethernet ? Why it is being used ?

   (d) What is the utility of encryption in network security ?

   (e) What is ERP ?

   (f) What are the five basic requirements of a communication system ?

4. Answer any *two* questions :　　　　10×2

   (a) Differentiate between OSI and TCP/IP model.

   (b) (i) Discuss Electronic data interchange and its application is real world.

   　　(ii) What is the difference between internet and intranet ?

　　　　　　　　　　　　　　　　　　6+4

C/15/MBA/3ʳᵈ Seme./OS 304　　　　　　　*(Turn Over)*

(c) (i) What is data warehouse ?

(ii) What are the five essential stages of data warehousing process ?

5+5

[Internal Assessment : 10]