

## **BCS-5 SEM**

### **COURSE: BCS-311 DATABASE MANAGEMENT SYSEM**

Assignment No: 2

Due date of submission: 10.11.2016

#### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

Q.1

- a) What is Data model? Discuss Hierarchical model, Network Model, Relational & Object oriented model.
- b) Define Normalization. Also explain all normal forms with suitable example.

Q.2

- a) What is File Organization? Explain Sequential file organization & Random file organization techniques with their merits & demerits.
- b) What do you mean by Integrity? Discuss Entity & Referential Integrity in detail.

### **BCS-312 COMPUTER GRAPHICS**

Assignment No: 2

Due date of submission: 10.11.2016

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Q1

- a) What is window-to viewport transformation explain it in detail?
- b) Discuss 2D-transformation and explain the method to represent of 2D-transformation in computer graphics.

Q2

- a) Write short note on
  - i) Polygon meshes parametric
  - ii) Cubic curves.
  - iii) Quadric surface.
- b) Define computer animation. Discuss all types of computer animation, also explain the role of computer graphics in multimedia.

**Course: BCS-313 INTERNET AND JAVA PROGRAMMING**

Assignment No: 2

Due date of submission: 10-Nov-2016

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1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

Q-1-

- (a) What is the significance of Applets in JAVA Language? Explain with examples.
- (b) Define Servlet in JAVA Language. Explain the Life cycle of a servlet.

Q-2-

- (a) Write a program of Pascal triangle using dynamic array.
- (b) Define the following terms with proper examples:
  - (i) Inheritance with its types.

(ii) Multithreaded Programming with example.