

**II/BCA/204**

**2016**

**( 2nd Semester )**

**BACHELOR OF COMPUTER APPLICATIONS**

**Paper No. : BCA-204**

**( System Analysis and Design )**

**( New Course )**

*Full Marks : 75*

*Time : 3 hours*

**( PART : B—DESCRIPTIVE )**

**( Marks : 50 )**

*The figures in the margin indicate full marks  
for the questions*

1. (a) Define man-made information system. "A system leads to a lot of planning and less of implementation." Do you agree? Justify your answer. 5
- (b) Explain the features of a system. 5
- Or
- (c) Explain elaborately different types of system models. 6

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**( Turn Over )**

- (d) Write about the responsibilities of a system analyst. 4
2. (a) Define SDLC. Explain various phases of SDLC. Why is a system proposal so crucial for system design? 10
- Or
- (b) Explain the principles of system documentation. 5
- (c) Explain enforcing documentation discipline in an organization. 5
3. (a) How to plan a system in terms of data and fact gathering techniques? Explain its various techniques. 10
- Or
- (b) Explain different types of feasibility study and their importance. 6
- (c) Why is it difficult to determine user requirements? 4
4. (a) What are the data-flow diagrams? How are they different from structure charts? Draw and explain data-flow diagram for university management system. 10
- Or
- (b) Write short notes on Entity Relationship Diagram (ERD) and User Interface Design (UID). 10

( 3 )

5. (a) Discuss different types of system testing. 5

(b) What do you mean by system maintenance? Explain with the help of suitable example. 5

Or

(c) Explain different system acceptance criteria. 4

(d) Write briefly the case study of railway reservation system. 6

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