

(i) Printed Pages : 4]

Roll No. ....

(ii) Questions : 9]

Sub. Code : 

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Exam. Code : 

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**Bachelor of Computer Applications 3rd  
Semester Examination**

**1127**

**INFORMATION SYSTEM DESIGN AND  
IMPLEMENTATION**

**Paper : BCA-16-303**

**Time : 3 Hours]**

**[Max. Marks : 65**

**Note :-** Attempt *five* questions in all, including Q. 9 in  
Section E, which is compulsory and taking *one* each  
from Sections A, B, C and D.

**Section-A**

1. Define System. Give examples. Explain the characteristics and components of a system. Describe any real life system. What are different types of systems ?

13

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Turn Over

2. Who is a system analyst ? What is the role of a system analyst in system development ? Explain the attributes of a good system analyst. Explain the life cycle of system development. 13

### **Section-B**

3. How is Data Flow Diagram (DFD) useful in analyzing the data and processes used in a system ? Draw a DFD for Hospital management system. Make necessary assumptions if required. 13
4. What is information system planning ? Discuss the important fact finding techniques that are used by the system analyst for determining the user requirements, during the system development process. 13

### **Section-C**

5. (a) What is the importance of feasibility study ?  
- Briefly discuss various steps in it.
- (b) What is Software system testing ? Explain why different types of testing are required for a software system. 6,7

6. What is Software Quality Assurance (SQA) ? What are its goals in system life cycle ? Explain different levels of SQA. 13

#### **Section-D**

7. What is adaptive maintenance ? Explain, how is it different from corrective maintenance ? Explain at least four recent trends in reducing software system maintenance costs. 13
8. Write short notes on the following :
- (a) Vendor Selection
  - (b) Hardware/Software Selection 6,7

#### **Section-E**

##### **(Compulsory Question)**

9. (a) What is man-made information system ?
- (b) How would an analysis determine the user's needs for a system ?
- (c) A system leads to a lot of planning and less of implementation. Do you agree ?

(d) What are the advantages and uses of structured English ?

(e) What is the importance of end-user training ?

(f) What is the difference between logical and physical design ?

(g) Define a Project. 6×2,1