

Dr. Babasaheb Ambedkar Open University
Term End Examination July-2016

Course	: BCA		
Subject Code	: BCA – 305	Duration	: 03 hours
Subject	: System analysis and Design	Total Marks	: 70
Date	:	Time	:

Section A

Attempt any Three of the following: (30)

1. Explain the rules of normalization?
2. Explain physical and logical database design?
3. What do traditional 3GLs use?
4. Explain the concept of system and write down its important characteristics?
5. Describe the CASE toolsets?

Section B

Write short notes on any four. (20)

1. What is a decision table?
2. What is data dictionary?
3. Explain software testing?
4. Explain the key software maintenance issues?
5. What is a typical OO system?
6. What are the types of interviews?

Section C

(A) Multiple Choice Questions. (Give four options for each MCQ) (10)

1. Which is not a third generation language?
a. FORTRAN
b. COBOL
c. Unix
d. C++
2. The decision table comprises of:
a. Condition and Action statements
b. Condition and Action entries
c. Both a and b
d. Neither a nor b
3. In procedure-oriented design, the whole system is divided into:
a. set of procedures
b. set of modules
c. set of procedures and modules
d. none of these
4. In case of relational plan R(A,B,C,D,E,P,G), if FDs mentioned are known: AB->CD
DE->P C->E P->C B->G Then the relation plan R will be:
a. in BCNF
b. in 3NF, but not in BCNF
c. in 2NF, but not in 3NF
d. not in 2NF
5. Select the normal form that will fit for normal relational database design?
a. 2NF
b. 5NF
c. 4NF
d. 3NF
6. Which among the following is the combination of two or more keys?
a. Primary Key
b. Secondary Key
c. Concatenated Key
d. Foreign Key
7. Post implementation of system means:

- a. repairing of system
b. saving the data
c. satisfying customer demand
d. all
- 8 The terms analysis with respect to system means:
a. detailed study of various operations
b. study about system analyst
c. study of system programming
d. all of these
- 9 Reviews can be conducted:
a. orally
b. documenting
c. verbally
d. all
- 10 To prepare software what is not compulsory?
a. people
b. office
c. process
d. technology

(B) True or False.

(10)

1. Object oriented modulations are similar to conceptual world.
 2. Object-oriented design is related to software.
 3. Mouse is not used as data entry method.
 4. Expensive, Effective and Flexible are characteristics of well-designed system.
 5. Good coding knowledge is an important attribute of systems analyst?
 6. In System Development Life Cycle, up gradation, improvement and bug fixation are normally performed at the time of Design stage.
 7. Accuracy shows the features of information.
 8. The information system outputs raw data.
 9. In case of DFD, rhombus symbol will highlight a process.
 10. Concatenated Key is the combination of two or more keys.
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