

KATHMANDU UNIVERSITY
End Semester Examination
February/March, 2018

Marks scored:

Level : B.Sc.

Course : COMP 302

Year : III

Semester: II

Exam Roll No.:

Time: 30 mins.

F.M. : 10

Registration No.:

Date **MAR 08 2018**

SECTION "A"

[20 Q.×0.5=10 marks]

1. What is the structure chart?
 a document of what has to be accomplished
 a hierarchical partitioning of the program
 a statement of information-processing requirements
 all of the mentioned
2. The communication problem involves the
 analyst and the programmer manager and analyst
 programmer and the computer operate and the computer
3. Procedure development occurs within the
 structures design phase conversion phase
 system building phase maintenance
4. refers to the collection of information pertinent to systems project.
 Data gathering Data Exporting
 Data Embedding Data importing
5. To which phase of SDLC, is file conversion related?
 system implementation system analysis
 system development system design
6. What is the preliminary investigation for feasibility study?
 technical feasibility economic feasibility
 operational feasibility All of mentioned
7. Which among the following is not a level of quality assurance?
 Testing Verification Validation Observation
8. Which among the following is not an activity of requirement determination?
 Requirement Anticipation Requirement Investigation
 Requirement Specification Requirement Gathering
9. The process of understanding and specifying in detail what the information system should accomplish is called system
 design analysis specification administration

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SECTION "B"

[6 Q.×5=30 marks]

Attempt any FIVE questions:

1. What is the core process to achieve the System Analysis and Design?
2. Differentiate between Management Process and Supporting Process with an example.
3. Discuss about the Object Oriented Approach with an example.
4. What are Process, Project, and Product Metrics? Explain with examples.
5. What is Requirement Analysis Process? Why is Requirement important in Software Design?
6. What is System Design in SDLC? Describe the tools and techniques of System Design?
7. Draw a complete Entity-Relationship Diagram (ERD) using following entity:
 - a. Department
 - b. Course
 - c. Instructor
 - d. Student

SECTION "C"

[1 Q.×10=10 marks]

Attempt following Questions.

8. What is Data Flow Diagram? Develop Data Flow Diagram (DFD) using:
 - a. Customer Service System
 - b. On line Food Ordering System
 - c. Bus (Transportation) Management System

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100