Reg. No……..…….. Name……..…… **18U344**

# B. Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2018

## SEMESTER – 3: B.Sc. COMPUTER APPLICATIONS (CORE COURSE)

## COURSE: 15U3CRCAP07, SYSTEM ANALYSIS AND DESIGN

*(For Regular - 2017 Admission and Supplementary / Improvement 2016 & 2015 Admissions)*

Time: Three Hours Max. Marks: 75

### PART A

Answer ***all*** questions. Each question carries **1** mark.

1. Define system.
2. Mention the need of codes.
3. Expand PERT.
4. What are the purposes of organization chart?
5. Define software process.
6. What is the use of a questionnaire?
7. Define code plan.
8. What is a chart?
9. Define software engineering.
10. What is a context diagram? (1 x 10 = 10)

### PART B

Answer ***any eight*** questions. Each question carries **2** marks.

11. What do you mean by structured programming?
12. What are the different styles of form? Define each.
13. What is a DFD? What are the symbols in it?
14. Write a short note on information system levels.
15. What is a decision tree?
16. What is an organization function list? How does it relate to the organization chart?
17. What are the steps for developing effective charts?
18. What are the different characteristics of software?
19. Discuss about any two input media.
20. Write a note on operator training. (2 x 8 = 16)

### PART C

Answer ***any five*** questions. Each question carries **5** marks.

21. Explain the role of a system analyst.
22. How management influence the development of software?

23. What is a flowchart? What are the symbols used in it?
24. Describe the study phase activities.
25. Discuss the different methods of system change over.
26. Explain the steps in computer program development.
27. Write a note on
    a) Group classification code
    b) Self checking code (5 x 5 = 25)

**PART D**

Answer ***any two*** questions. Each question carries **12** marks.

28. Explain the different steps in feasibility analysis.
29. Describe the activities during design phase.
30. What are the different criteria for selecting a life cycle model? Explain spiral model with a neat diagram.
31. Write notes on
    a) Decision table
    b) Conversion
    c) HIPO chart (12 x 2 = 24)

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