

B.SC. (I. T.) SEM. - II (2011 COURSE) : SUMMER - 2018
SUBJECT: STRUCTURED SYSTEMS ANALYSIS & DESIGN

Day: **Thursday**
Time: **24/05/2018**

Date: **10.00 am to 01.00 pm**
Max Marks: **80**

S-2018-0975

N.B:

- 1) Figures to the right indicate **FULL** marks.
 - 2) Draw neat labeled diagram **WHEVER** necessary.
 - 3) State any **ASSUMPTIONS** you have made.
 - 4) Answer any **FIVE FULL** questions.
-

- Q.1** Write short notes on the following: **(16)**
- a) Risk Analysis
 - b) Cohesion & Coupling
 - c) Reliability
 - d) Modularity
- Q.2** a) Describe the Waterfall model used in SDLC. Compare the advantages and disadvantages vis-a-vis AGILE model. **(10)**
- b) Explain the uses of three document used in system development. **(06)**
- Q.3** Prepare a System Requirement Specification for a college management system .Draw a context level DFD for the above system and (level 1), (level 2) diagrams. **(16)**
- Q.4** a) Differentiate between Decision tree, Decision table and Structured English. Use suitable examples and diagrams. **(10)**
- b) What is feasibility study? Use suitable examples in the explanation. **(06)**
- Q.5** a) Discuss how MIS supports a manager in his functional work. Use suitable examples. **(08)**
- b) What is an Information Systems Audit? Why is it required? **(08)**
- Q.6** a) Why is it important to design the outputs of the system clearly? Discuss the important factors to be used in output design. Use suitable examples. **(08)**
- b) Explain using suitable examples, the difference between a Transaction Processing System (TPS), Management Information System (MIS) and a Decision Support System (DSS). **(08)**
- Q.7** a) What do you understand by 'Controls' as applied to IO design? Clearly explain the purpose of building controls into the system. **(08)**
- b) What are the steps in the construction of a questionnaire for requirements gathering? **(08)**

* * * *