

Roll No.

Total No. of Questions : 09]

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B.Tech. (Sem. - 6th)
SOFTWARE ENGINEERING
SUBJECT CODE : CS - 308

Paper ID : [A0473]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A

Q1)

(10 × 2 = 20)

- a) What is the economical feasibility of a system?
- b) What is the difference between Inspections and Walkthroughs?
- c) What is Black box Testing strategies?
- d) What is a decision tree?
- e) What is Process based estimation?
- f) Is unit testing possible or even desirable in all circumstances?
- g) What is cyclomatic complexity?
- h) Explain briefly whether S/W is developed or engineered.
- i) What is Software Maintenance?
- j) What is the major duty of a system analyst?

Section - B

(4 × 5 = 20)

- Q2)** What are the quality attributes that every software should possess? Explain them clearly. List various objectives of software engineering.
- Q3)** Explain the waterfall life cycle model.
- Q4)** What are test reports? Explain the various testing techniques.

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- Q5) What are the project management tools used? List them and explain. Explain the side effects that are caused due to software maintenance.
- Q6) Who should perform the validation test : S/W developer or S/W user? Justify your answer.

Section - C

(2 × 10 = 20)

- Q7) Software requirement analysis is the most communication intensive step in software engineering process. Discuss.
- Q8) Suppose you want to develop software for a Visitors Registration System for an office-whenver a visitor wants to meet any staff member in the office, the system will record the name of the visitor, name of the staff, time of entry, purpose of visit and time of exit. The system also should have the following features :
- To display the names of all visitors to a staff member daywise.
 - To display the time spent by a particular visitor in the office.
 - To display the names of all visitors who are in office at a particular time.
- For the above mentioned system, develop a Systems Requirement Specifications.
- Q9) What is a user interface. Elaborate the rules for designing the user interface.

