

Paper ID [CS308]

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B.Tech. (Sem. - 6th/7th)**SOFTWARE ENGINEERING (CS - 308)****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 a process model?
- b) What is White box testing?
- c) Which is Risk analysis?
- d) What is code documentation?
- e) Name the characteristics of a software.
- f) Explain what is a DFD?
- g) What are fourth generation techniques?
- h) What is cyclomatic complexity?
- i) What are static code analysers?
- j) What is the purpose of Rayleigh curve?

Section - B**(4 × 5 = 20)****Q2)** What is the use of testing phase? Give various types of testings.**Q3)** Explain Object Analysis & Design tools/techniques used in s/w development.**Q4)** What are the various factors associated with cost estimation of a project?
Explain any cost estimation technique.

- Q5) Assuming a real time system of your choice, discuss the concepts. Analysis and design factors of the same, elaborately.
- Q6) Does prog languages has an impact on project planning, analysis design, coding, testing and maintenance? Discuss.

Section - C

(2 × 10 = 20)

- Q7) (a) What is risk analysis? How do you estimate risk analysis?
(b) Distinguish between validation and verification.
- Q8) What are the project management tools used? List them and explain them, bringing their salient features. Explain the side effects that are caused due to software maintenance.
- Q9) Explain the following.
- (a) Use-Case diagrams.
 - (b) Software metrics.
 - (c) CASE.

