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Total No. of Questions : 09] [Total No. of Pages : 02

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 x 2 = 20)*

a) Explain data design.
b) Explain software characteristics.
c) What is cyclomatic complexity?
d) What are the advantages and disadvantages of CASE tools.
e) Define top down approach to software design.
f) What is the difference between flowchart and structure chart?
g) What do you mean by metrics?
h) What is a ER-diagram?
i) What is Rayleigh curve used for?
j) What do you mean by SEI-Capability Maturity Model?

Section - B

(4 x 5 = 20)

Q2) Which are the techniques with which cost estimates of a project may be made? Explain the COCOMO model.

Q3) What is meant by Software Configuration Management?

Q4) What are the different tools used for structured system analysis & design.

Q5) Name the various life cycle models. Explain the spiral model in detail.

Q6) How is scheduling of a project done so that it is developed in minimum time?

Section - C

(2 x 10 = 20)

Q7) What is the difference between structural programming and data oriented design. Explain.

Q8) Give a detailed account on the debugging techniques on their classification and the methods involved.

Q9) Explain Coding style and Coding efficiency. List and explain the characteristics of a programming language.