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B.Tech. (Sem. - 6th)

SOFTWARE ENGINEERING

SUBJECT CODE : CS - 332 (2k7 Batch)

Paper ID : [A0497]

[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) Differentiate between software engineering tools, methods and procedures.

b) What are the advantages of classic life-cycle development model?

c) List the task regions in the spiral model.

d) List the activities in the software project planning.

e) Name the various team structures.

f) What are the characteristics of SRS?

g) Define the terms in software designing :
(i) Abstraction (ii) Modularity

h) What are the two levels of testing?

i) What are the objectives of formal technical reviews?

j) List the activities in the maintenance phase.

Section - B

(4 × 5 = 20)

Q2) What is the place of software maintenance in the software lifecycle? Justify your answer.

Q3) What is the objective software testing? List the various types of testing that are carried out during complete SDLC.

Q4) What is the relationship between abstract data type and classes? Explain.

Q5) What are size metrics? How is the function point metric advantageous over the LOC metric? Explain.

Q6) What do you understand by the term Software Development Life Cycle? Why is it important to adhere to the life-cycle model while developing a large software product.

Section - C

(2 × 10 = 20)

Q7) Enumerate the characteristics of a good object-oriented design.

Q8) What are the problems and their causes faced during the development of the software?

Q9) Discuss various cost-estimation and configuration management techniques.

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