

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2124)

1786

MCA 3rd Semester Examination

Software Engineering (NS)

MCA-305

Time : 3 Hours

Max. Marks : 60

candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Out of the nine questions, question no. 1 is compulsory. Rest attempt one question each from each of the four sections.

1. Answer the following:
 - (a) What is a software process?
 - (b) Write down the advantages of spiral model.
 - (c) How do you define non-functional requirements? Give an example of non-functional requirement.
 - (d) Define software architecture.
 - (e) What is a metric? Give example of a software metric.
 - (f) Explain risk mitigation.
 - (g) What is function oriented design?
 - (h) Discuss the significance of Activity Diagram.
 - (i) How do you define the state of a class?
 - (j) What is a 'du' path? Give example. (10×2=20)

SECTION - A

2. Discuss water Fall, Incremental process and evolutionary process models. (2.5+4+3.5=10)

[P.T.O.]

OR

3. (a) Discuss various types of feasibility studies in reference to software development. (7)
(b) How are requirements documented? (3)

SECTION - B

4. (a) How is software design different from software architecture? (2)
(b) How are the size and cost estimated for a software? (7.5)

OR

5. Write short notes on the following:
(a) Deployment view
(b) Documentation
(c) Software Project Management. (3+3+4=10)

SECTION - C

6. (a) What is a state chart? Explain with the help of suitable example. (2+6=8)
(b) Discuss logic design. (2)

OR

7. What is verification? Explain critical design review and consistency checker. (1+5+4=10)

SECTION - D

8. What are various categories of software metrics? Discuss with the help of suitable example. (2+8=10)

OR

9. (a) Explain the Tante maintenance model. (5)
(b) Differentiate between reverse engineering and re-engineering. (5)
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