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GIET UNIVERSITY, GUNUPUR - 765022
M. C. A (Third Semester) Regular Examinations, January - 2024
MCA 20304 - Software Engineering

Time: 3 hrs

Maximum: 70 Marks

(The figures in the right hand margin indicate marks.)

PART - A**(2 x 10 = 20 Marks)**

Q.1. Answer <i>ALL</i> questions	CO #	Blooms Level
a. Discuss the concept of Refactoring.	CO4	K2
b. Why testing is necessary. Explain with an example.	CO4	K2
c. Define the Cyclomatic Complexity.	CO4	K2
d. Write a short note on software maintenance.	CO4	K2
e. List different types of feasibility study.	CO2	K2
f. How is the V model used in software engineering?	CO1	K2
g. Differentiate between organic, semidetached and embedded software.	CO1	K4
h. Write a short note on project scheduling.	CO1	K2
i. Differentiate between decision tree and decision table.	CO2	K4
j. Differentiate between function oriented and object-oriented approach.	CO3	K4

PART - B**(10 x 5 = 50 Marks)**Answer ANY FIVE questions

	Marks	CO #	Blooms Level
2. a. Compare and contrast black box testing and white box testing.	5	CO4	K3
b. Write the purpose of Software Engineering Institution Capability Maturity Model. Briefly describe all five levels of it.	5	CO4	K3
3.a. Describe the different stages of SDLC model with diagram.	5	CO1	K2
b. Describe COCOMO model.	5	CO1	K2
4. a. Draw activity diagram of Student Management System.	5	CO3	K3
b. What is the use of sequence diagram? Draw the sequence diagram of University Management System.	5	CO3	K3
5.a. Describe Requirement Engineering process.	5	CO2	K2
b. Describe CASE tool.	5	CO2	K2
6. a. Differentiate between cohesion and coupling.	5	CO3	K4
b. Describe about software design. Explain abstraction & modularization.	5	CO3	K2

7.a.	Discuss integration testing and system testing approach.	5	CO4	K2
b.	Explain the different types of UML diagrams.	5	CO3	K2
8. a.	Discuss the phases of Spiral model with diagram.	5	CO1	K2
b.	Describe SCRUM in the development process.	5	CO1	K2

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