PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR

Department: Computer Technology | Semester: V Section: A and B

CAT-I (2022-23)

Subject:SEPM | Subject Code:BTCT503T

Duration:1.5Hrs | Max.Marks:35

Note:

1) All questions are compulsory.
2) All questions carry marks as indicated.
3) Due credits will be given on neatness.
4) Draw diagram wherever it is necessary.

	Questions	Marks	CO	BL
Q.1	A] In the Analysis phase, the development of the _____ occurs, which is a clear statement of the goals and objectives of the project. a) documentation b) flowchart c) program specification d) design	1	CO3	II
	B] Which design identifies the software as a system with many components interacting with each other? a)Architectural design b) High-level design c)Detailed design d) Both B & C	1	CO3	II
	C. What do you mean by data modeling? Explain.	5	CO3	II
	OR			
Q.2	A]. Which tool is use for structured designing ? a) Program flowchart b) Structure chart c) Data-flow diagram d) Module	1	CO3	II
	B] Component level design is concerned with a) Flow oriented analysis b)Class based analysis c)Both of the above d)None of the above	1	CO3	II
	C.What is modularity? How to find moderate number of modules required with moderate cost of software?	5	CO3	II
Q.3	A. Defects are less costly if detected in which of the following phases a. Coding b) Design c) Requirements Gathering d) Implementation	1	CO4	II
	B. Which of the following is/are White box technique? a) Statement Testing b) Decision Testing c) Condition Coverage d) All of the mentioned	1	CO4	I
	C. Explain in detail White Box Testing and Black Box Testing.	5	CO4	II
	D. Explain Function points with an example.	7	CO4	II
	OR			
Q.4	A. Degree to which design specifications are followed in manufacturing the product is called a) Quality Control b) Quality of conformance c) Quality Assurance d) None of the mentioned	1	CO4	II
	B. Quality Management is known as _____ a) SQI b) SQA c) SQM d) SQA and SQM	1	CO4	II
	C. Differentiate different testing strategies in detail.	5	CO4	II
	D. Explain the metrics for Design Modelling.	7	CO4	II
Q.5	A. What kind of quality cost is incurred when an error is detected in a product prior to shipment? a) Prevention b) Internal Failure c) External Failure d) Appraisal	1	CO5	II
	B. Which one of the following is not a software process quality? a) Visibility b) Timeliness c) Productivity d) Portability	1	CO5	II
	C.Explain Project scheduling and project metrics.	5	CO5	II

	D.Explain what is SCM? Why it is important? What are different steps involved for same.	7	CO5	II
	OR			
Q.6	A. The incorrect activity among the following for the configuration management of a software system is _____ a) Version management b) System management c) Change management d) Interrnship management	1	CO5	II
	B. _____ is a Strategy to achieve Software diversity. a) Explicit specification of different algorithms b) Different programming languages c) Different design methods and tools d) All of the mentioned	1	CO5	II
	C.Discuss RMMM.	5	CO5	II
	D.What is Software Risk? Explain various types of Software Risks.	7	CO5	II