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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

July 2024 Semester End Main Examinations

Programme: B.E.

Semester: V

Branch: Information Science and Engineering

Duration: 3 hrs.

Course Code: 22IS5PCSEO

Max Marks: 100

Course: Software Engineering and Object-Oriented Modelling Design

Instructions: 1. Answer any FIVE full Questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

			UNIT - I		CO	PO	Marks
Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.	1	a)	Classify the different attributes of good software with an example for each.		CO1	PO2	6
		b)	“Software is a product”. Justify this statement with suitable example.		CO1	PO2	6
		c)	Explain how waterfall model and prototyping model can be accommodated in the spiral software process model		CO1	PO2	8
UNIT - II							
2	a)	List and explain the differences between sequence diagram and activity diagram. Illustrate with suitable examples			CO2	PO2	10
	b)	Draw the state transition diagram for the following applications: i) Hotel Reservation system ii) Chess game			CO2	PO2	10
OR							
3	a)	With clear notations, explain state diagram for Phone line system.			CO2	PO2	10
	b)	Draw the use case diagram for library management s/m make suitable assumptions.			CO2	PO2	10
UNIT - III							
4	a)	Define requirement discovery. Explain any two methods of requirement discovery with example			CO3	PO2	10
	b)	List and explain various functional and non-functional requirements for Hostel Management System.			CO3	PO2	10
UNIT - IV							
5	a)	With a neat block diagram, explain Software Testing process and list the advantages of Inspections.			CO4	PO2	10
	b)	Identify the Test scenarios involved in Pen Manufacturing process and write any two negative test cases for the same.			CO4	PO3	10

UNIT - V					
6	a)	Describe briefly the Repository architecture and Client –server architecture with neat diagrams. Discuss advantages and disadvantages of it.	<i>CO5</i>	<i>PO2</i>	10
	b)	For Online Shopping system development, explain how Agile Technology is better than Traditional SDLC (Software Development Life Cycle)	<i>CO5</i>	<i>PO3</i>	10
OR					
7	a)	Explain how the principles underlying agile methods lead to the accelerated development and deployment of software.	<i>CO5</i>	<i>PO2</i>	10
	b)	Illustrate the repository architecture for a language processing system with a neat sketch and explain in detail.	<i>CO5</i>	<i>PO2</i>	10
