Hall Ticket Number:

C	6	0	2	1	9	7	3	3	1	0	0

Code No. : 16234 AS

VASAVI COLLEGE OF ENGINEERING *(AUTONOMOUS)*, HYDERABAD
Accredited by NAAC with A++ Grade
B.E. (C.S.E.) VI-Semester Advance Supplementary Examinations, August-2022
Software Engineering

Time: **3 hours**   Max. Marks: **60**

*Note: Answer all questions from **Part-A** and any **FIVE** from **Part-B***

Part-A (10 × 2 = 20 Marks)

Q. No.	Stem of the question	M	L	CO	PO
1.	What is a legacy System ? Explain the need for a legacy system.	2	1	1	1,2
2.	Give the Umbrella activities of a software process	2	3	1	1,2
3.	Identify the non functional requirements of a Mobile phone	2	2	2	1,2
4.	What are the types of relationships in UML.	2	1	2	1,2
5.	Outline any two Object oriented testing methods.	2	2	3	1,2
6.	Identify the building blocks of UML	2	3	3	1,2
7.	How is verification different from validation. Give an example	2	1	4	1,2
8.	State the object oriented testing methods	2	3	4	1,2
9.	How do you analyze security requirements ?	2	1	5	1,2
10.	Identify the metrics for Analysis model	2	3	5	1,2

Part-B (5 × 8 = 40 Marks)

Q. No.	Stem of the question	M	L	CO	PO
11. a)	Differentiate between Incremental and iterative process model	4	4	1	1,2
b)	Explain the Rapid Application development (RAD) model in detail	4	2	1	1,2
12. a)	Describe SCRUM model	4	2	2	1,2
b)	What are the guidelines followed during component-level design of software?	4	1	2	1,2
13. a)	Design a usecase and activity diagram for Online Shopping.	5	4	3	1,2
b)	Distinguish the features of sequence and collaboration diagrams with example	3	4	3	1,3
14. a)	Differentiate between testing and debugging	4	4	4	1,2
b)	Classify the levels of testing emphasizing their significance.	4	2	4	1,2

			M	L	CO	PO
15.	a)	Analyze various metrics for maintenance.	4	4	5	1,2
	b)	Describe the process involved in Software Configuration Management.	4	3	5	1,2
16.	a)	Describe the requirements elicitation process.	4	3	1	1,2
	b)	Explain how can you overcome the disadvantages of waterfall model using agile process model.	4	2	2	1, 2
17.		Answer any *two* of the following:				
	a)	Analyze which features of Object Oriented Modelling can be used to design any application. Justify your answer	4	4	3	1, 3
	b)	Design flow graph and find Cyclomatic complexity for the given code- IF A = 354 THEN IF B > C THEN A = B ELSE A = C END IF END IF PRINT A	4	3	4	1, 4
	c)	Describe the difference between process and project metrics	4	3	5	1,2

M : Marks;   L: Bloom's Taxonomy Level;   CO; Course Outcome;   PO: Programme Outcome

i)	Blooms Taxonomy Level – 1	20%
ii)	Blooms Taxonomy Level – 2	33.33%
iii)	Blooms Taxonomy Level – 3 & 4	46.67%

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