VR Siddhartha Engineering College
Department of Information Technology

INFORMATION TECHNOLOGY

20IT3502-SOFTWARE ENGINEERING
CBCS: Unit wise list of questions
A.Y:2021-22

S.No	QUESTION	CO	Cognitive level
	UNIT-1		
1	Discuss which application is more suitable for prescriptive process model, along with the features of prescriptive process models?	CO3	K4
2	Illustrate the software myths with respect to management, customer, and practitioner with neat case studies.	CO1	K2
3	Compare and Contrast between Waterfall Model and RAD Model.	CO3	K4
4	Define Agility and elaborate its Principles.	CO3	K1
5	Compare and contrast between Incremental process model and RAD model with a neat case study?	CO3	K4
6	Discuss the concept of unified process model. Justify why this model is better than water fall?	CO3	K4
7	What are the limitations of waterfall model and suggest possible solutions?	CO3	K4
8	Explain concurrent agile development model. Discuss at least one case study where this model is best suitable.	CO3	K4
9	Explain Incremental Model for software development. Differentiate it from spiral process model?	CO3	K4
10	Explain extreme Programming process?	CO3	K2
11	Write short note on Agile process models.	CO3	K2
12	Write short note on software myths	CO1	K2
13	With a neat diagram, explain unified process.	CO3	K2
14	Describe the concept of evolutionary process model. Justify why this model is better than waterfall ?	CO3	K4
15	Explain about Adaptive Software Development in Agile Process?	CO3	K2
16	Explain about Scrum in Agile Process?	CO3	K2
17	Explain which application is more suitable for evolutionary process model, along with the features of evolutionary process models?	CO3	K4
18	What are the characteristics of software?	CO1	K1

19	Explain different software reality with respect to management, customer, and practitioner with neat case studies.	CO1	K2
20	Explain concurrent agile development model. Discuss at least one case study where this model is best suitable.	CO3	K3
21	List various software process paradigms. Explain how both waterfall model and prototype model can be accommodated in the spiral process model?	CO3	K4
22	Discuss the concept of RAD process model. justify why this model is better than water fall ?	CO3	K4
23	List out characteristics of software and write about the fundamental activities of software process	CO1	K2
24	Compare incremental process models with evolutionary process model.	CO3	K4
	UNIT-2		
25	Elaborate briefly on various Requirement Engineering Task?	CO2	K2
26	How the requirements will be gathered collaboratively in Eliciting Requirements?	CO2	K2
27	Understanding requirements from stakeholders are difficult task' justify this statement.	CO2	K2
28	How will you eliciting the requirements in Requirement Engineering	CO2	K2
29	Explain the following with suitable examples. i. Design Quality ii. Design Concepts iii Use cases.	CO3	K2
30	How can you validate software requirements tasks? Explain with a neat case study?	CO2	K5
31	Elaborate briefly Design concepts in data engineering process?	CO2	K2
32	List out usecase modeling concepts in building the analysis model?	CO4	K6
33	Define architecture styles and explain any two architecture styles in architecture design?	CO2	K2
34	Explain the concept of architectural styles and patterns	CO2	K2
35	Ideally no software model is suitable for any application fully. Will you agree with the statement? justify your answer by citing suitable examples	CO2	K4
36	How can you validate software requirements process? Explain with a neat case study?	CO2	K5
37	Imagine, what could be the consequence in the software development process, if requirements negotiation and requirements validation is not properly organized. Why negotiation and validation is much important .Discuss with case studies.	CO2	K2

	UNIT -3		
38	Explain the concept of Interaction Diagrams with an example.	CO4	K6
39	Elaborate User Interface Design Steps.	CO4	K2
40	Describe in detail the UML class diagram with an example?	CO4	K6
41	Describe the purpose of the activity model, give the activity model for any one application?	CO4	K6
42	Distinguish the use of activity diagram and state diagram. Give activity and state diagrams for the development of the mobile application for the CCTV monitoring	CO4	K6
43	Give examples of class and object diagram for any single application. discuss the features of both the diagrams	CO4	K6
44	Draw and explain activity diagram for a student joining in the university?	CO4	K6
45	Draw activity diagram for various operations of online shopping application	CO4	K6
46	Create a Sequence Diagram for Student Monitoring system	CO4	K6
47	Create a Sequence Diagram for requesting a website address in a web browser.	CO4	K6
48	Create and explain activity diagram for a student joining in the university?	CO3	K6
	Create activity diagram for various operations of railway reservation system	CO3	K6
49	Create a Sequence Diagram for Student Monitoring system	CO3	K6
50	Create a Sequence Diagram for requesting a website address in a web browser.	CO3	K6
	UNIT-4		
51	What are the different types of testing and write the procedure for basis path testing?	CO3	K2
52	Distinguish between white box and black box testing strategies.	CO3	K4
53	Compare the approaches of black box testing and white box testing?	CO3	K4
54	What is test plan? Discuss its importance in ensuring free software?	CO3	K4
55	What is program to check the given number is prime or not and calculate the cyclomatic complexity of your code?	CO3	K5
56	Identify the best path for the user to check his login status of an application?	CO3	K5
.....	And so on.....		
57	Explain white box testing and black box testing	CO3	K5
58	Explain about the testing strategies	CO3	K5