

SAGAR INSTITUTE OF SCIENCE & TECHNOLOGY(SISTec) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

QUESTION BANK

BRANCH CSE
SESSION 2023-24

NAME OF THE FACULTY: ABHUDAY TRIPATHI

SUBJECT/CODE:SOFTWARE ARCHITECTURE/CS-701

UNIT 1

Q. No.	Question	Bloom's Taxonomy Level	COURSE OUTCOME
1	Briefly explain about different software application domains. Discuss the		CO1
	need of correctness and robustness in software design?		
2	What is the use of software architecture in software development?		CO1
3	What are the generic process frame work activities that are present in every software process?		CO1
4	What are design patterns and explain its use in detail. Explain the step-by-step approach of applying a design pattern efficiently.		CO1
5	Explain about singleton pattern. What are the benefits of singleton pattern? Explain the following with examples • Abstract factory pattern • Prototype pattern		CO1
6	Explain the need for software architectural styles. List out some of the common architectural styles in use and give examples for each style.		CO1
7	What do you understand by pipe and filer architecture? Elucidate some of it's properties with examples.		CO1
8	Define Architecture Business Cycle? How architecture business cycle works?		CO1

9	Compare software development model on the basis of following	CO1
	parameters: -	
	• Approach	
	Advantage	
	Disadvantage	
10	Explain different software quality model.	CO1

UNIT 1I

Q. No.	Question	Bloom's Taxonomy Level	COURSE OUTCOME
1	Explain pipe and filter style architecture in detail. Explain MVC in detail.		CO2
2	What is the use of structural model in software development?		CO2
3	What is a framework? How framework model can help in software development?		CO2
4	What is data flow architecture? How it is different from batch sequential data processing system?		CO2
5	Explain the use of call and return architecture?		CO2
6	What are different architecture styles? Explain the following architecture styles:- dataflow architecture, pipes and filters architecture, call-and return architecture.		CO2
7	Explain advantages of reactive architecture? In which situation it can be		CO2

	more useful?	
8	Differentiate between SOAP and REST service.	CO2
9	What are the elements of REST service?	CO2
10	Explain the use of RESTfull API.	CO2

UNIT 1II

Q. No.	Question	Bloom's Taxonomy Level	COURSE OUTCOME
1	What is J2EE?		CO3
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	What are the different technologies provided to the J2EE platform?		
3			CO3
	How is JDK different from JIT?		
4			CO3
	How is a multi tier client server architectural model advantageous?		
5	What are the J2EE aplets? Why can we use it?		CO3
6	What is EJB? How can you use it in J2EE?		CO3
7	What is the architecture model of Struts?		CO3
8	What constitutes web components?		СОЗ
9	What is EJB platform?		CO3
10	What is Hibernate?		CO3

UNIT 1V

Q. No.	Question	Bloom's Taxonomy	COURSE
		Level	OUTCOME
1	What is ATAM? Explain about the outputs of ATAM.		CO4
2	Differentiate between architecture analysis and design method?		CO4
3	Explain the usage of Software Architecture Analysis method?		CO4
4	Explain the advantages of using Cost Benefit Analysis method.		CO4
5	What are the advantages of using ATAM?Explain with an example.		CO4
6	How can Active Reviews for Intermediate Design can help us in		CO4
	analysis of software architecture?		
7	How attribute driven design method helps in bringing quality in a		CO4
	software?		
8	Explain the principles and challenges of software architecture reuse.		CO4
9	What role domain play in software development? Explain the domain		CO4
	specific software architecture development.		
10	What is requirement architecture? Why it is important?		CO4

UNIT V

Q. No.	Question	Bloom's Taxonomy Level	COURSE OUTCOME
1	Why is there a need of software architecture documentation?		CO5
2	What are the goals of software architecture documentation?		CO5
3	Explain principles of sound documentation.		CO5
4	How context diagram helps in development of software?		CO5
5	Explain the user interface design process? Explain the characteristics of software interface design?		CO5
6	"Variability is reflected in and facilitated through software architecture"-Justify the statement.		CO5
7	Why there is a need to document the behaviour of the software system?		CO5

8	How can we document behaviour of software documentation?	CO5
9	What are the components of software architecture documentation?	CO5
10	Explain the importance of refinement in software documentation.	CO5