B.E. (Computer Science & Engineering) Semester Seventh (C.B.S.) Elective - II : Software Architecture

P. I	Pages :	2		KNT/KW/16/7496
Time: Three Hours			'S	Max. Marks: 80
	Note	s: 1.	All questions carry marks as indicated.	
		2.	Solve Question 1 OR Questions No. 2.	
		3.	Solve Question 3 OR Questions No. 4.	
		4.	Solve Question 5 OR Questions No. 6.	
		5.	Solve Question 7 OR Questions No. 8.	
		6.	Solve Question 9 OR Questions No. 10.	
		7.	Solve Question 11 OR Questions No. 12.	
		8.	Due credit will be given to neatness and adequate dimensions.	
10		9.	Assume suitable data whenever necessary.	0
57	7	10.	Illustrate your answers whenever necessary with the help of neat s	ketches.
	J)			15(0)
1	a)	Explain	n the architecture of software analysis.	6
1.	u)	Laplain	the diemeetare of software analysis.	
	b)	What is	s the design process of software? Explain the importance of s/w design	gn. 7
	0)	** Hat 15	the design process of software. Explain the importance of s _i w design	511.
			OR	
2.	a)		pe scalability & interoperability issues in s/w design process & enlist etural pattern.	different 7
	b)	Explain	the architecture of web application with suitable example.	6
3.	a)	What an	re the different quality attribute? Explain it.	7
	b)	What an	re the needs of quality attributes in s/w architecture.	6
			OR	0
4.	a)	Explain	n achieving quality attributes in s/w architecture.	6
	b)	What an	re the six characteristics of scenario for quality attributes specification	on. 7
5.	a)	What an	re the different principles of design patterns? Explain it in details.	7
	b)	Explain	n design pattern and software architecture.	7
			OR	
6.		Write a	short note on following pattern.	10
10	770		ngleton	- 15
10	2)/		daptor	
11<			erator	3 3
		*	ediator	3

((7.	a)	Explain web services architecture & it's elements in detail.
/	9)	b)	Describe conventional architectural style. 6
			OR
	8.	a)	Explain service-oriented architecture. 5
		b)	Enlist the benefits of using styles. 4
		c)	What are the basic properties of architectural styles?
	9.	a)	Explain different components of middle-ware along with their features.
	6	b)	How does the programming models implementing in middleware.
E	70	9)	OR
$)$ \sim	10.	a)	Explain in detail the architecture of middleware.
		b)	Write a short note on: i) Economics-Driven Architecture. ii) COTS 4
	11.	a)	What is the need of client side technology in multi-tier architecture?
		b)	Give overview of three-tier web architecture . 7
			OR
3	12	0	Write a short note on i) Servlet ii) Appled iii) AJAZ 3

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