Q.P.Code:03208

			(2 ½ Hours)	[Total Marks	:75]
N.B	: (1) A	ll questions are compulsory.			
, 1.2		gures to the right indicate marks.			
		ustrations, in-depth answers and d	iagrams will be ap	preciated.	
	(4) M	ixing of sub-questions is not allow	ved.		
Q1.		Attempt the following (any TH	IREE):		(15)
	(A)	What are cookies? Explain how		from cookies?	()
	(B)	Write a servlet program that acc			
		from an HTML file. If qualificat	tion is BSC, then it	redirects the user to	
		"GRADUATE.html", if its MSC	then it redirects the	ne user to	
		"POSTGRADUATE.html".			
	(C)	Explain Servlet Life Cycle in de			
	(D)	Write a short note on HttpSessio			
	(E)	What is filter? Explain various p			
	(F)	Write a servlet file which will di or Even. Number N is accepted		number N is Odd	
Q2.		Attempt the following (any TH	IREE):		(15)
	(A)	What is JSP? List and explain a Servlets.	ny three advantages	s of using JSP over	()
	(B)	How JSP files are executed by w			
	(C)	Write a JSP program to compute	square of all num	bers from 22 to 12.	
	(D)	Explain the following- request, s	session, config, app	olication,	
31	(17)	pageContext.			
	(E) (F)	Explain the advantages of using Explain exception handling in ja	unified expression va server pages wi	language. th suitable example.	
Q3.		Attempt the following (any TH	(DFF).		(15)
	(A)	Discuss the various ways of pass		FIR	(15)
	(B)	Explain the role of message liste	ner in detail.	EJD.	
	(C)	State and explain any two annota	ations used for dev	eloning EIR	
	(D)	Explain the life cycle of Stateful	Session bean.	oroping Evb.	
	(E)	Differentiate between session be	ans and message d	riven beans.	
	(F)	Write a short note on -types of E	JB.	8	
Q4.		Attempt the following (any TH	(REE):		(15)
	(A)	Write a web service which will I	eturn factorial of n	umber passed to it	(13)
	(B)	Discuss various important factor	s to be considered	before giving	
		remote or local access to the ente	erprise beans.		
	(C)	Explain the basic steps for creati	ng a web service a	nd client.	
	(D)	Write a web service method that return m ⁿ .	accepts two numb	ers m and n, and	
	(E)	Discuss the characteristics of ren	note client and loca	al client in a session	
	(E)	enterprise bean.			
	(F)	Explain @WebMethod and @W	ebService in detail	.000	
Q5.		Attempt the following (any TH	REE):		(15)
	(Δ)	What is the role of Complete			(13)

(A) What is the role of ServletContext and HttpServletRequest? State some important methods of these classes.

(B) Explain and for ISB to include the service of the servic

(B) Explain any five JSP Actions.

- (C) Discuss the benefits of EJB.
- (D) Write a short note on -Web service clients.
- (E) Write a servlet which allows user to add new records to table C_AREA (RADUIS, AREA). A value for RADIUS is passed through HTML, and corresponding AREA is computed. Also write the code for HTML Document.
- (F) Discuss the content of an enterprise bean.