Paper / Subject Code: 53706 / Enterprise Java

(2½ Hours)

[Total Marks: 75]

IN.	B.: (1) All questions are competitive who rever necessary and state the assumptions made.	
	(2) Make <u>suitable assumptions</u> wherever necessary and <u>state the assumptions</u> made.	
	(3) Answers to the <u>same question</u> must be <u>written together</u> .	
	(4) Numbers to the <u>right</u> indicate <u>marks</u> .	
	(5) Draw <u>neat labeled diagrams</u> wherever <u>necessary</u> .	
	(6) Use of Non-programmable calculators is allowed.	
		15
1.	Attempt any three of the following:	10
a.	What is an enterprise application? What is the enterprise edition of Java?	
b.	Define Java EE containers with the various Java Container types.	
c.	Explain the life cycle of a servlet application.	
d.	Write a short note on javax. Servlet. Servlet package.	
e.	What is a JDBC Statement object? Explain its 3 types.	
f.	List and explain each of the four JDBC driver types.	
2	Attempt any three of the following:	15
2.	Explain two methods of RequestDispatcher interface.	
a.	Where are cookies used? Describe any four important methods of cookie class.	
b.	What is a session? Explain Session Management Rules.	
c.	What is Non-Blocking I/O? How it works?	
d.	What is Non-Blocking I/O! How it works:	
e.	Write a servlet code to download a file. Which things needs to be carefully checked and understood while writing file uploading	
f.	Which things needs to be carefully checked and understood winter writing me aproducing	
	code in servlet?	
2	Attempt any three of the following:	15
3.	What is the use of Java Server Pages? Give the difference between JSP and Servlets.	
a.	Explain Life Cycle of a JSP Page.	
b.	What are directives in JSP? Explain its types.	
C.	Give an explanation of the jsp:useBean action tag's attributes and usage.	
d.	Give an explanation of the jsp. usebean action tag s attributes and usage.	
e.	Write a short note on <jsp:plugin> Action.</jsp:plugin>	
f.	What exactly is JSTL? Describe XPath in detail.	
	6.41 6.11	15
4.	Attempt <u>any three</u> of the following:	15
a	What is EJB? Explain its advantages.	
b	Write a detailed note on the type of Session beans.	
С	Write a short note on Remote and Local Interfaces.	
d	Describe message-driven beans characteristics.	
e	What is a naming service?	
f	Write a note on DataSource Resource Definition in Java EE 7.	
		15
5.	Attempt <u>any three</u> of the following:	13
a.	Explain following:	
	i) JOIN condition Using ON ii) Entity Listeners Using CDI	
b.	Where Does Java Persistence API Fit In?	
c.	Why is there a need for Object Relational Mapping (ORM)?	
d.	Write a short note on Functions in JPQL and Downcasting in JPQL.	
e.	What is Hibernate? Explain the features of Hibernate.	
f.	Explain the components of Hibernate configuration.	