

Code No. : 35001

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD MCA (CBCS) V-Semester Main Examinations, December-2018

Middleware Technologies

Time: 3 hours

Max. Marks: 70

Q. No	Stem of the Question	M	L	CO	PO
	Part-A $(10 \times 2 = 20 \text{ Marks})$				
1.	Describe the Client/Server architecture.	2	2	1	1
2.	Explain about the Remote Procedure Calls.	2	2	1	1
3.	List any four methods of HttPServlet class.	2	1	2	1
4.	Write an example code of a JSP script.	2	4	2	1,4
5.	What is an EJB? List the types of EJB.	2	1	3	1
6.	Describe when to use a Stateful Session Bean?	2	2	3	1
7.	Summarize the importance of CLR in .NET framework	2	2	4	1,4
8.	Restate the steps in creating and running a C# program	2	2	4	1,5
9.	What are String methods in C#?	2	4	5	1,4
10.	List out any five windows form controls	2	1	5	5
	Part-B ($5 \times 10 = 50$ Marks)				
11. a)	What is a Middleware? Explain its two broad classes	4	1	1	1
b)	List the steps in creating a JDBC data source	6	1	.1	1,4,
12. a)	Analyze the life cycle of a Servlet	6	4	2	1
b)	Demonstrate the anatomy of JSP tag extensions	4	3	2	1,4
13. a)	Examine the procedure involved in building and deploying EJBs	5	4	3	1,4
b)	Explain the steps in the high level view of an EJB conversation	5	2	3	1,4
14. a)	List and explain the components of Assemblies.	4	2	4	1,4
b)	Write a C# program to search a given element in an array.	6	3	4	1,4
15. a)	Write a C# program to read the data from a file and copy it into another file by converting it into upper case.	5	3	5	1,5
b)	Can you create a sealed abstract class in C#? Justify Your answer	5	6	5	1,5
16. a)	Compare RPC with Messaging system	5	6	1	1,4
b)	Demonstrate the Java Servlet API	5	3	2	5
17.	Answer any two of the following:				
a)	Explain how to build an application with EJB	5	2	.3	1
b)	Briefly explain about .NET framework architecture	5	2	4	1
c)	Explain how to connect a database using ADO.NET	5	2	5	1,4

M: Marks; L: Bloom's Taxonomy Level; CO: Course Outcome; PO: Programme Outcome

S. No.	Criteria for questions	Percentage
1	Fundamental knowledge (Level-1 & 2)	60%
2	Knowledge on application and analysis (Level-3 & 4)	32%
3	*Critical thinking and ability to design (Level-5 & 6)	8%
	(*wherever applicable)	