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Code No. :321

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
M.C.A. III Year I-Semester Main Examinations, December-2017

Middleware Technologies

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

- 1 List out different types of JDBC Drivers.
- 2 Mention the use of RPC.
- 3 What is difference between ServletConfig and ServletContext?
- 4 What are advantages of using JSP?
- 5 What are the key components of persistence API in EJB?
- 6 List the different types of Beans.
- 7 What is 'enum' in C#?
- 8 What is the significance of Framework Class Library?
- 9 What is the importance of ADO.NET?
- 10 Write the syntax of FileStream class in C#.

Part-B (5 × 10 = 50 Marks)

11. a) Explain Client/Server building blocks. [5]
b) Explain basic steps to create JDBC application. [5]
12. a) Discuss about JSP Design Strategies. [5]
b) Explain servlet life cycle. [5]
13. a) Draw the Software Architecture of EJB. Explain the role of its various constituents. [5]
b) List the steps involved in building and deploying EJB. [5]
14. a) Explain in detail about reference and value types with an example. [5]
b) Write a program in C# to check whether the given string is palindrome or not without using predefined methods. [5]
15. a) Explain different types of Windows Forms Controls with examples. [5]
b) List and describe various classes and methods used to retrieve and changes information about files in the namespace System.IO. [5]
16. a) Compare RPC and messaging. [4]
b) List out and describe implicit objects supported by JSP. [6]
17. Answer any *two* of the following:
 - a) Explain the responsibilities of various roles in an EJB application. [5]
 - b) Explain about .NET architecture and how it supports application development. [5]
 - c) Write a C# program to create a file. [5]

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