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Code No.: 311 S

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

Middleware Technologies

Time: 3 hours

Max. Marks: 70

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

Part-A (10x2 =20 Marks)

1. Define JDBC.
2. Mention the uses of RPC.
3. Define servlet context.
4. What is JSP?
5. What is EJB client?
6. Explain EJB entity beans.
7. List out the advantages of .NET programming.
8. What is CLR?
9. What is Windows Form?
10. Mention the use of Radio button.

Part-B (5 × 10=50 Marks)

11. a) Discuss about Middleware Technologies. [5]
b) Explain client/server building blocks. [5]
12. a) Explain servlet life cycle. [5]
b) List and explain implicit objects in JSP. [5]
13. a) Explain stateful session bean with help of diagram. [6]
b) What are the key advantages of EJB in web programming? [4]
14. a) Describe Exception handling in C# .NET. [5]
b) Explain operators and loops in C# programming. [5]
15. a) Write a C# program to create a Text file. [5]
b) Explain any five form controls with examples. [5]
16. a) Discuss role of Client-server programming in design of web servers. [5]
b) Explain JSP directives. [5]
17. Answer any *two* of the following:
 - a) Explain building of an application using EJB. Give specific applications of EJB. [5]
 - b) Describe Framework class Library. [5]
 - c) Discuss about Datasets. [5]
