

CBCS Scheme

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CMRIT LIBRARY
BANGALORE - 560 037

16MCA41

Fourth Semester MCA Degree Examination, June/July 2018 Advanced Java Programming

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing one full question from each module.

Module-1

- 1 a. Explain life cycle of Servlet with a neat diagram. (08 Marks)
b. Write a java servlet program to Auto web page refresh. Consider a web page which displays Date and time and page gets refreshed automatically after a given interval. (08 Marks)

OR

- 2 a. Write any four difference between servlet and JSP. (08 Marks)
b. Write a java servlet program to implement get () and post () method using http servlet class. Analyze the output. (08 Marks)

Module-2

- 3 a. Discuss any four jsp tags with an example. (08 Marks)
b. Write a java jsp program which uses <jsp:plugin> to run a applet. (08 Marks)

OR

- 4 a. Illustrate jsp directive tags with an example. (08 Marks)
b. Write a jsp program to get student information through html. Validate the user credentials on successful login display the information in another jsp file. (08 Marks)

Module-3

- 5 a. Explain any 4 annotations with an example. (08 Marks)
b. Define introspection. Discuss simple properties with an example. (08 Marks)

OR

- 6 a. Write a program to demonstrate deployment of bean using package with an example. (08 Marks)
b. Discuss the interfaces used in java. beans package. (08 Marks)

Module-4

- 7 a. Explain the steps in JDBC process. Give an example. (08 Marks)
b. Discuss the types of JDBC statements with an example. (08 Marks)

OR

- 8 a. Discuss any four advanced JDBC data types. (08 Marks)
b. Develop a program to insert following data in to music database. Using prepared statement object. Table consists of music_id int(5), music_name varchar (20), music_auauthor varchar(10) (08 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Module-5

- 9 a. Define the following :
- a) Deployment Descriptor
 - b) <ejb – jar>
 - c) <remote>
 - d) <ejb-class>
- (08 Marks)
- b. Write on EJB program that demonstrates session Bean with proper business logic. (08 Marks)

OR

- 10 a. Discuss the classes of EJB and depict the various components of interaction with a neat diagram. (08 Marks)
- b. Explain various EJB transactions attributes. (08 Marks)

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