

CBCS SCHEME

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16MCA41

Fourth Semester MCA Degree Examination, Dec.2018/Jan.2019

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 the process of servlet life cycle in web container. (10 Marks)
b. What are the needs, benefits and advantages of JSP? (06 Marks)

OR

- 2 a. With an example, explain the structure of servlet program. (10 Marks)
b. Briefly explain the HTTP status codes during server response. (06 Marks)

Module-2

- 3 a. Explain the following page directive attributes along with an example:
(i) import (ii) errorpage and iserrorpage
(iii) session (iv) buffer and autoflush (10 Marks)
b. Explain the different types of JSP elements. (06 Marks)

OR

- 4 a. Write a JSP program to read data from a HTML form (Gender, data from radio buttons and colours data from check boxes) and display. (10 Marks)
b. Write a JSP program to include an applet along with necessary applet code. (06 Marks)

Module-3

- 5 a. Define package. With an example, explain the usage of sub packages. (06 Marks)
b. Write a JSP program to get student information through a HTML and create a Java Bean class, populate bean and display the same information through another JSP. (10 Marks)

OR

- 6 a. Discuss built-in annotations with an example. (10 Marks)
b. Write a note on : (i) Advantages of Java Bean (ii) Java Bean API. (06 Marks)

Module-4

- 7 a. With example, explain the essential steps of JDBC program. (10 Marks)
b. Define EJB. Briefly explain the advantages of EJB. (06 Marks)

OR

- 8 a. Explain the types of statement objects in JDBC with an example. (10 Marks)
b. Explain the following advanced JDBC data types:
(i) BLOB (ii) CLOB (iii) ARRAY (06 Marks)

Module-5

- 9 a. What is Session Bean? Explain three types of Session Bean. (10 Marks)
b. Explain the steps in developing EJBs. (06 Marks)

OR

- 10 a. What is message-driven beans? Explain the life cycle of message driven beans. (10 Marks)
b. Explain the following terms:
(i) Interceptors.
(ii) Naming and object stores. (06 Marks)

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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.