

MCA - Sem - IV (CBAS)

Core & Advanced Java

22/11/16

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Q.P. Code : 515300

(3 Hours)

Total Marks : 80

**Note :** (1) Question No. 1 is compulsory.

(2) Attempt any four questions out of the remaining Q. 2 to Q. 7

1. Attempt any four:-

- a) Wrapper Classes 20
- b) JSP Architecture
- c) Cascading style sheets
- d) Abstract class
- e) Object Serialization and Deserialization

2. a) What is Inheritance? Explain hybrid inheritance with suitable example. 8
- b) Write a program to sort following city names in ascending order - Kolkata, Delhi, Pune, Mumbai, Surat, Indore, Bengaluru, Hyderabad. 7

3. a) What is Object Oriented Programming? Explain OOP's Concepts in java with suitable examples. 8
- b) What are differences between Generic Servlet and Http Servlet. 7

4. a) Describe java program steps in order to get connectivity to database along with example. 8
- b) Explain Request Dispatching in Servlet. What are differences between Request Dispatching and send redirecting? 7

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5. a) Explain Event Delegation Model in java with Suitable example. 8
- b) What is Exception? Explain Handling process for any two java's unchecked runtime exception subclasses. 7

6. a) What is Data Race Condition? Explain how you will eliminate data race condition in multithreaded application in java. Give an Example? 8
- b) What is EJB? Explain different types of EJB. 7

7. a) What is JSP? Explain JSP Life cycle with suitable example. 8
- b) What is struct? Explain features of structs. 7

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