

**3C7131**

Roll No. \_\_\_\_\_

Total No of Pages: **3**

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**MCA III - Sem. (Main / Back) Exam., Dec. 2019**

**MCA-301A Java Technologies**

**Time: 3 Hours**

**Maximum Marks: 80**  
**Min. Passing Marks: 32**

*Instructions to Candidates:*

*Attempt all question. Marks of question are indicated against each question.*

*Use of following supporting material is permitted during examination.  
(Mentioned in form No. 205)*

1. NIL

2. NIL

**Q.1 Answer each question in one line –**

**[10×1=10]**

- (a) What is RMI?
- (b) What is JavaFx?
- (c) Differentiate between Generic Servlet and Http Servlet.
- (d) What is the difference between ServletConfig and ServletContext?
- (e) What is connection pooling?
- (f) Define JDBC.
- (g) What is the use of web.xml?
- (h) What is Spring?
- (i) Define MVC.
- (j) What is the role of JDBC Driver Manager class?

Q.2 Answer each question in not more than 50 words:

[5×3=15]

- (a) Explain the architecture of Servlet.
- (b) What are the differences between Statement and Prepared Statement interface?
- (c) What is the role of Dispatcher Servlet in spring?
- (d) What are the life cycle methods of JSP?
- (e) What do you understand by cookies?

Q.3 Answer each question in not more than 150 words:

[5×4=20]

- (a) What are different implicit objects in JSP? Explain with the help of example.
- (b) What are the advantages of Spring Framework?
- (c) What do you understand by EJB? Explain different types of EJB's with the help of example.
- (d) What is the difference scope values of <jsp:useBean> tag?
- (e) What is the difference between forward () and sendRedirect (). Explain with the help of example.

Q.4 (a) What do you understand by multitier architecture? Explain. [10]

(b) What are different types of session tracking techniques? Explain with the help of example. [10]

Q.5 Write a program using JSP and JDBC that takes the name of the city from the user and displays the details of all the Cafe Coffee Day outlets available in that city along with their contact details and their address using Cafe\_Info table. Create the table 'Cafe\_Info' with necessary validations. [15]

OR

- (a) Write a program using servlet that accepts a number from the user and displays whether the number is prime or not. [5]
- (b) What are the steps to connect to the database in Java? Explain with the help of example. [10]

14  
15  
16  
17  
18  
19

JSP  
JSP translator  
Servlet, Java  
file

Buffer  
Dynamic content