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MCA 4th Semester CBCS Scheme  
w.e.f. 2017-18  
Examination – May, 2018

ADVANCED JAVA PROGRAMMING

Paper : 17MCA34C1

*Time : Three Hours ]*

*[ Maximum Marks : 80*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note : There shall be 9 questions. Question Number 1 will be compulsory and in addition to the compulsory question, students have to attempt four more questions selecting one question from each Unit. All questions carry equal marks.*

1. (a) What is MVC ? 8 × 2 = 16  
- (b) What is JavaScript White Space ?  
- (c) What is Entities in XML ?  
- (d) What is DTD ?

- (e) What is J Toggle Button ?
- (f) What is J Tool Tip ?
- (g) What is WORA Java Bean ?
- (h) What is init () method ?

### UNIT - I

- 2. (a) What is XML tag library ? What are XML core tags ? Explain with example. 6
- (b) Write a program to create HTML form with one text box to enter number in it. 6
- (c) What do you know by event handling ? Explain. 4
- 3. (a) How Java script different from Java ? What are various objects in Java scripts ? Explain with example. 6
- (b) What is AWT ? What are basics features ? Explain with example. 6
- (c) How to use DOM ? Explain. 4

## UNIT - II

4. (a) What is window pane in swing ? List out different window pane and give the purpose of them. 6
- (b) List and explain various swing layouts and components with examples. 6
- (c) Write a program to create swing based form for user registration. 4
5. (a) What do mean by Java Bean ? How to use JDK Introspection ? Explain advantages of Java Bean with example. 10
- (b) Explain the following button in swing with example : (I) J Table (II) J Scroll (III) J Tabbed Pains. 6

## UNIT - III

6. (a) Write Servlet program to display "Hello world" on screen. 7
- (b) What is Java Software development Kit ? Explain Testing Tomcat. 5
- (c) Write a Java Client and Server Program to get date time from server on the client request. 4
7. Explain the following with examples :  $4 \times 4 = 16$
- (a) JSP Processing

- (b) Anatomy of a JSP page
- (c) Tomcat Server
- (d) Servlet API

#### UNIT – IV

8. (a) Draw and explain JSP page life cycle. 6
- (b) What are usages of various implicit JSP objects ?  
Explain with example. 6
- (c) Explain usage of JSP Page directive with various attributes of it. 4
9. (a) How to work various methods in error handling and debugging sharing data between JSP pages ?  
Explain with example. 6
- (b) What is RMI ? Explain with example. 6
- (c) What is CGI programming ? Explain with example. 4