

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

UNIT

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

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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. 6
- (c) What do you know by event handling ? Explain. 4
- 3. (a) How Java script differ from Java ? What are various objects in JavaScript ? Explain with example. 6
- (b) What is AWT ? What are its 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