

7. Explain the following example :
- (a) Tomcat server : *testing tomcat* [6]
- (b) Steps to inst *he Java software* development. [5]
- (c) Anatomy of a J *ge* [5]

**Uni**

8. Why use JSP? Wh *e steps to compile* and executes the J *pplications ? What* are JSP elemer  *Explain with* example. [16]

9. Discuss the followin
- (a) JDBC [5]
- (b) Database Prog *ing* [6]
- (c) Generating dy *content* [5]

<https://www.ndupapers.com>

Roll No. ....

**67171**

**M.C.A. 4th Sem.  
(with New notes - M.M. 80.)**

**Examination-May, 2016**

**Advanced Java Programming (New)**

**Paper-MCA-401**

**Time : 3 hours**

**Max. 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 the examination.

**Note :** There shall be nine questions. Question No. One will be **compulsory** and in addition to the compulsory question, students have to attempt **four** more questions selecting **one** from each unit. All questions shall carry equal marks.

[8×2=16]

1. (a) What is Javafx.sql.\*?

(b) What is MVC ?

- (c) What are Cookies
- (d) What is customiz
- (e) What is bean info
- (f) What is session o ?
- (g) What is applet ta
- (h) What is war file ?

**Unit-**

2. (a) How and why use Java script language? When is this language complete? What are the basic features of Java scripts? Explain how to make dynamic HTML with Java using example. [12]
- (b) What is SAX and ? Explain. [4]
3. (a) What is AWT programming? What are the various components of AWT? Explain. [9]

- (b) What is role of XML in data transfer? How to present XML ? [7]

**Unit-II**

4. Why Swing component is better than AWT components? How to develop a light weight application using swing? Explain with writing codes of any five swing components. [16]
5. (a) How to use Java Bean? What is role of Java Bean in an application? Explain the Java Bean properties using example. [10]
- (b) What is Java Beans API? Explain. [6]

**Unit-III**

6. Why Servlet is important in client-server based application? Explain all the components used in server-side programming architecture. [16]