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Total No. of Pages : 02

Total No. of Questions : 09

**M.Sc.(Computer Science) (2015 & Onwards) (Sem.-2)****ADVANCED JAVA PROGRAMMING****Subject Code : MSC-201****Paper ID : [A2570]****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTION TO CANDIDATES :**

1. **SECTIONS-A, B, C & D** contains **TWO** questions each carrying **TEN** marks each and students has to attempt any **ONE** question from each **SECTION**.
2. **SECTION-E** is **COMPULSORY** consisting of **TEN** questions carrying **TWENTY** marks in all.

**SECTION-A**

Q1) What do you mean by Servlet &amp; Servlet chaining? Explain it using suitable example?

Q2) What is session management &amp; explain how it can be implemented using JDBC in Servlets?

**SECTION-B**

Q3) Discuss Java Beans API in detail using suitable example.

Q4) What are Application building tools discuss them in detail?

**SECTION-C**

Q5) Explain EJB with its architecture and requirements.

Q6) a) Explain the Design &amp; implementation of EJB.

b) Write short note on pushing data from RMI Servlet.

**SECTION-D**

Q7) What do you mean by JSP? Explain JSP scripting elements and directives.

Q8) Describe the use of java beans in JSP for working with Java Mail.

### SECTION-E

**Q9) Answer briefly :**

- a) Explain Java web server
- b) Write short note on Applet.
- c) What are Stubs?
- d) Explain RMI Client.
- e) What are remote objects?
- f) Write short note on J2EE.
- g) Explain MVC and JSP.
- h) Explain Servlet communication.
- i) Discuss persistence customizers.
- j) Discuss RMI Servlet.