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**MCAS 305**

**Third Semester M.C.A. Degree Examination, December 2018**  
**ADVANCED JAVA PROGRAMMING**

Time : 3 Hours

Max. Marks : 70

**Note :** Answer **any five** questions. **All** questions carry **equal** marks.

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|--|-------------------------|----|
| 1. a) Explain evolution of J2EE.   | 7                       |    |
| b) Explain J2EE architecture.  | 7                       |    |
| 2. a) Explain the various steps of JDBC with code snippets.                              | 8                       |    |
| b) Explain the JDBC driver types.  | 6                       |    |
| 3. a) Explain : (i) Prepared statement (ii) Callable statement.                          | 8                       |    |
| b) Write a note on Database metadata object method and Resultset metadata object method. | 6                       |    |
| 4. a) Define URL. Explain URL Connection class.  | 6                       |    |
| b) Define Datagrams. Briefly explain Datagrams using proper methods.                     | 8                       |    |
| 5. a) Define introspection. Briefly explain introspection.                               | 8                       |    |
| b) Define java beans. What are the advantages of java beans ?                            | 6                       |    |
| 6. a) What are servlets ? Explain life cycle of a servlet.                               | 6                       |    |
| b) Explain the steps involved in creating and testing a simple servlet.                  | 8                       |    |
| 7. a) Explain different types of JSP tags with an example.                               | 7                       |    |
| b) Briefly explain session object in JSP.  | 7                       |    |
| 8. a) Write a short note on :  |                         |    |
| i) JAR files   | ii) Message driven bean | 10 |
| b) Define : (i) Hibernate  | ii) ORM                 | 4  |
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