

**B.SC. (I. T.) SEM. - IV (2011 COURSE) : SUMMER - 2018**

**SUBJECT : ADVANCED JAVA**

Day : **Friday**

Time : **10.00 am to 12.00 Noon**

Date : **25/05/2018**

**S-2018-0983**

Max. Marks : 40

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**N.B.:**

- 1) Attempt **ANY FIVE** questions.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1 a)** Explain thread life cycle with diagram. **[04]**

**b)** Explain HashMap with example. **[04]**

**Q.2 a)** Explain the various session handling techniques in servlet. **[04]**

**b)** Explain servlet life cycle with example. **[04]**

**Q.3 a)** Differentiate between Expression, Declaration and Scriptlet category of tags in JSP. **[04]**

**b)** Explain Implicit objects in JSP, using code snippet example. **[04]**

**Q.4** What is Layout Manager? Explain three Layout Managers in swing. **[08]**

**Q.5** Design a web page for MSEB electricity bill and print all the information on page. **[08]**

**Q.6** Explain JDBC architecture, with diagram. Enlist and explain the four types of JDBC drivers, along with usage of each type. **[08]**

**Q.7** Write short note on the following: **[08]**

- a)** Byte stream and character stream handling using java.io.classes
- b)** Methods to create thread

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