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10CS/IS753

**Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020**

**JAVA and J2EE**

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting at least TWO questions from each part.**

**PART – A**

- 1 a. List and explain JAVA buzzwords. (10 Marks)  
b. Explain any five Boolean logical operators with an example program. (05 Marks)  
c. Explain the following:  
(i) For-each version of the for loop.  
(ii) Using break as a form of Goto. (05 Marks)
- 2 a. What is instance variable hiding? How to overcome it? (05 Marks)  
b. What is an Applet? Explain the skeleton of an applet. (05 Marks)  
c. Explain the following with an example program:  
(i) super  
(ii) final  
(iii) Inner class. (10 Marks)
- 3 a. What are threads? Explain the two ways of creating threads with an example program. (10 Marks)  
b. What is synchronization in Java? How to achieve synchronization in Java? (05 Marks)  
c. What is an event? Explain the delegation event model. (05 Marks)
- 4 a. What is swing? List the main swing features. Explain the different types of panes of swing containers. (06 Marks)  
b. Create a swing application having two button named alpha and beta, when either of the buttons pressed, it should display “alpha is pressed” and “beta is pressed” respectively. (06 Marks)  
c. List the different types of swing buttons. Write a program to create four types of buttons on JApplet. Use suitable event to how actions on the buttons and use JLabel to display the action invoked. (08 Marks)

**PART – B**

- 5 a. Explain the four types of JDBC drivers. (04 Marks)  
b. Describe the steps of JDBC process with suitable exception handling blocks. (08 Marks)  
c. Briefly explain the callable statement object. Write a program to call stored procedure using callable statement. (08 Marks)
- 6 a. Explain the servlet life cycle with an example. (04 Marks)  
b. Write a short notes on:  
(i) Session tracking.  
(ii) Cookies. (08 Marks)  
c. Write a JAVA servlet to read name from client page and say “Hello to the name as response”. (08 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

- 7 a. What is JSP? Explain the different types of JSP tags. (06 Marks)  
b. What is RMI? Describe the code snippet RMI at client side. (10 Marks)  
c. Write the differences between JSP and servlets. (04 Marks)
- 8 a. What is deployment descriptor? List the deployment descriptor for EJB1.1. (06 Marks)  
b. With a skeleton, explain entity Java bean. (06 Marks)  
c. Explain (02 Marks)  
(i) JAR file (03 Marks)  
(ii) Stateless bean (03 Marks)  
(iii) Stateful bean (03 Marks)

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