Reg. No. : | | | | | | | | | | | | |

**Question Paper Code : 52890**

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Seventh Semester

Electronics and Communication Engineering

EC 6008 – WEB TECHNOLOGY

(Regulation 2013)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write a Java program to read two numbers, find the greatest and display the result.
2. What is an applet?
3. List the various application layer protocols.
4. What is HTTP and list the various HTTP methods to perform operation.
5. Define a parse tree.
6. What is document type definition? Give example.
7. Define a Java bean.
8. What are cookies?
9. Write the features of Java Server faces.
10. Define a persistent object.

PART B — (5 × 13 = 65 marks)

11. (a) What is a data type? Outline the data types in Java with relevant examples. (13)

Or

(b) Outline the steps in creating a sequential-access file in Java with an example and code snippets. (13)

12. (a) Explain the working of simple mail transfer protocol with an example.(13)

Or

(b) Explain remote method invocation in Java with an example and code snippets. (13)

13. (a) (i) Explain XML schema with an example. (7)

(ii) Outline the document object model with an example. (6)

Or

(b) Write a note on the AJAX framework and outline the steps to develop Web applications with AJAX. (13)

14. (a) What is a servlet? Explain the life cycle of a servlet with a diagram. (13)

Or

(b) Outline the Enterprise Java Bean architecture with a diagram. (13)

15. (a) Explain in detail about model view controller architecture with an example. (13)

Or

(b) Highlight the features of Struts, Hibernate and Spring frameworks. (13)

PART C — (1 × 15 = 15 marks)

16. (a) Write a Java program to implement communication between a client and a server using TCP sockets. (15)

Or

(b) Consider the following relations :

EMPLOYEE (EMPNO, NAME, DATE_OF_BIRTH, GENDER,

DATE_OF_JOINING_DESIGNATION_PAY_DEPARTMENT_CODE)

DEPARTMENT (DEPARTMENT CODE, DEPARTMENT_NAME)

The primary keys are underlined. The attribute DEPARTMENT_CODE in relation EMPLOYEE is a foreign key referencing attribute DEPARTMENT_CODE in relation DEPARTMENT. Create the above relations in a relational database of your choice. Develop a Java application using JDBC to insert records into the DEPARTMENT relation and EMPLOYEE relation, update the value of BASIC_PAY in EMPLOYEE relation and display records from the EMPLOYEE relation. (15)

---