

**N (Printed Pages 4)**

**(201217) Roll No. ....**

**BCA - V Sem.**

**18022**

**B.C.A. Examination, Dec.- 2017**

**Java Programming and Dynamic Webpage**

**Design**

**(BCA-502)**

**(New Course)**

**Time : Three Hours ] [Maximum Marks : 75**

**Note : Attempt questions from all sections as per instructions.**

**Section-A**

**(Very Short Answer Questions)**

**Note : Attempt all five questions. Each question carries 3 marks. Very short answer is required. 3×5=15**

- 1. Why java is called machine independent language? 3

**P.T.O.**

- 2. How will you create hyperlinks in web document? Write the code also. 3
- 3. Define the following with sample code- 3
  - (i) Encapsulation
  - (ii) Abstraction.
- 4. Define Servlet life cycle. 3
- 5. Write down the various components of JSP.3

**Section-B**

**(Short Answer Questions)**

**Note : Answer any two questions out of the following three questions. Each question carries 7½ marks. Short answer is required. 7½×2=15**

- 6. What are cascading style sheets and how they are coded? Explain them with an example. https://www.ccsustudy.com 7½
- 7. Define Socket () & Server Socket () class in java networking. Write down their methods with an example. 7½
- 8. Differentiate between the following:
  - (i) Constructor and finalizer 3×2½=7½
  - (ii) Method overloading and method overriding
  - (iii) Super and final keyword

**18022\2**

**Section-C**

**(Long Answer Questions)**

**Note :** Answer any **three** questions out of the following **five** questions. Each question carries 15 marks. Answer is required in detail. 15×3=45

- 9. (a) Java supports single inheritance. If there is a need to extend more than one class, how can this be achieved? Explain with sample code. 7
- (b) Define multithreading in java. What are the two ways to create a thread in java? Write down the code also. 8
- 10. (a) What is a string buffer? How does it differ from a string? Give three ways to create a string object. 8
- (b) What is the life cycle of an Applet? Illustrate common methods to create the applet. 7

- 11. (a) What is JDBC? Write different types of Java driver available for database connectivity? What are the steps of database connectivity in Java? 8
- (b) How will you define Socket? How many different types of socket you can create in java? Define also the methods & class of these different sockets. 7
- 12. (a) Define the following tags in HTML 8
  - (i) <META> (ii) <form>
  - (iii) <FRAMESET>

Also design a simple form that will accept user entry and display it.
- (b) What is an exception? What are the methods of handling exception in java? 7
- 13. (a) What is Servlet? Explain the life cycle of Servlet. Write a login page using servlet. 8
- (b) What is JSP? Write the difference between JSP & Servlet. Also some advantages of JSP. 7