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**(21218)**  
**BCA- V Sem.**

**Roll No. ....**

**18022**

**B. C. A. Examination, Dec. 2018**

**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)**

Answer all the *five* questions. Each question carries 3 marks. Very short answer is required.  $3 \times 5 = 15$

1. Java is platform independent. Justify. 3

(2)

2. What is final variable ? Give example also. 3
3. Explain the main component of JSP. 3
4. What are the different types of drivers used in Java database connectivity ? 3
5. What is Applet viewer ? Explain. 3

**Section-B**

**(Short Answer Questions)**

Answer any *two* questions out of the following three questions. Each question carries  $7\frac{1}{2}$  marks. Short answer is required.  $7\frac{1}{2} \times 2 = 15$

6. Explain the following :
  - (a) Super and Final 3½
  - (b) Exception. 4
7. Define Cascading style sheet. Explain it with a supportive example. 7½

8. What are packages ? How packages are created in Java ? Explain and give example also. 7½

**Section-C**

**(Detailed Answer Questions)**

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

9. What is inheritance in Java ? Explain its types. If we need to extend more than one class, how it work ? Give the code also. 15
10. What is JSP ? Explain the advantage of JSP and main component also. How is it differ from Servlet ? Give an example to support your answer. 15
11. (a) Explain Applet life cycle. Write the all methods used to create applet with example. 8
- (b) Explain socket. How many types of socket can be created in Java ? Give example also. 7

12. (a) Define Multithreading. Explain the way to create the thread with suitable example. 8
- (b) Explain Servlet life cycle. 7
13. (a) Explain exception handling in Java. What is the method of handling exception in Java ? 7
- (b) What is AWT ? Explain about the various AWT controls available in Java with an example also. 8