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(Printed Pages 4)

Roll No. _____

19/192

B.C.A. Examination, 2019

Fifth Semester

Second Paper

(Java Programming and Dynamic Webpage Design)

Time : Three Hours

Maximum Marks : 75

Note: Attempt any **five** questions. **All** questions carry equal marks.

Note: The answers to short questions should not exceed 200 words and the answers to long questions should not exceed 500 words.

1. Answer briefly with examples: $3 \times 5 = 15$
- (a) Difference between class and object
 - (b) Difference between constructor and destructor.

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19/192

- (c) Difference between JVM and Bytecode
 - (d) Difference between unit and start method
 - (e) Difference between applet class and HTML
2. (a) Write a program in JAVA to swap two integers without using third variable.
http://www.mgkvponline.com $10 + 5 = 15$
- (b) What is meant by copy constructor? Explain the use of copy constructor with suitable example.
3. (i) Explain JAVA class structure. Discuss the concept of polymorphism in JAVA.
 $7 + 8 = 15$
- (ii) Write the main features of the JAVA AWT package.
4. (i) Define Applet in JAVA $3 + 2 + 10 = 15$
- (ii) What is the role of AWT in Applet Execution.

19/192

- (iii) Describe the life cycle of an applet with the help of an appropriate flowchart.
5. (a) Write the attributes of an applet. Illustrate it with an example. $5+7+3=15$
- (b) Write the HTML format and tags required for creating an Applet. Give an example for it by writing an applet which performs an active function.
- (c) What are the limitations of an Applet?
6. (a) With the help of schematic diagram, illustrate the structure of a JAVA servlet. 5
- (b) Illustrate the servlet life cycle and list the steps involved. 5
- (c) How is session tracking carried out? explain. 5

19/192

7. Explain the following: $7\frac{1}{2} \times 2 = 15$
- (a) Generation of dynamic content using JSP.
- (b) Use of standard library in JSP
8. Write explanatory note on: $7\frac{1}{2} \times 2 = 15$
- (a) Event Handling in JAVA
- (b) JDBC

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