| (i) | Pri | inted Pages: 2 Roll No | | | | | | | |
|--|-----------------------|---|--|--|---------------|--|--|--|--|
| (ii) | Qu | estions : 9 | Sul | o. Code : 1 | 7 9 4 9 | | | | |
| | | | Exam | . Code: | 0 0 3 1 | | | | |
| Bachelor of Computer Applications 5th Semester | | | | | | | | | |
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| (2124) | | | | | | | | | |
| JAVA PROGRAMMING | | | | | | | | | |
| Paper : BCA-16-503 | | | | | | | | | |
| Time Allowed: Three Hours] | | | | [Maxi | mum Marks: 65 | | | | |
| Note:—The students are required to attempt one question each from Sections A to D and the compulsory question. | | | | | | | | | |
| SECTION—A | | | | | | | | | |
| 1. | (a) | Discuss char | acteristics | eristics of Java Language in detail. 6 | | | | | |
| | (b) | Define Cons | ne Constructors. What is the purpose of creating it? | | | | | | |
| | | Discuss cons | tructor ove | rloading using | an example. 7 | | | | |
| 2. | Define the following: | | | | | | | | |
| | (a) | Dynamic Me | thod Dispa | tch. | 7 | | | | |
| | (b) | Abstract class | SS. | | 6 | | | | |
| SECTION—B | | | | | | | | | |
| 3. | (a) | Difference be | ce between String and String Buffer class. Discuss | | | | | | |
| | | its various m | ethods. | | 6 | | | | |
| | (b) | (b) What are Packages? Steps to create a User defined Package | | | | | | | |
| | | with an exan | nple. | | 7 | | | | |

| 4. | Disc | Discuss Multiple Inheritance. How to implement it in Java using | | | | | |
|----|------------|--|----------|--|--|--|--|
| | an e | example ? | 13 | | | | |
| | | SECTION—C | | | | | |
| 5. | Wha | What are exceptions? Elaborate Exception handling model is | | | | | |
| | | a. Also discuss user defined exception by taking mple. | an 13 | | | | |
| 6. | (a) | Discuss Life cycle of an Applet with an example. | 6 | | | | |
| | (b) | What is multithreading? Discuss different ways to creat | ıte a | | | | |
| | | thread with examples. | 7 | | | | |
| | 1 | SECTION—D | | | | | |
| 7. | Wh | What do you mean by AWT Controls ? Design a Stude | | | | | |
| | regi | stration form using various AWT controls. | 13 | | | | |
| 8. | (a) | How to handle events in Java? Discuss event delega | tion | | | | |
| | | model with an example. | 7 | | | | |
| | (b) | What are JDBC components? Discuss steps to conne | ct a | | | | |
| | | database in Java. | 6 | | | | |
| | | (Compulsory Question) | | | | | |
| 9. | (a) | Explain JVM and Bytecode. | 2 | | | | |
| | (b) | What do you mean by Streams? | 2 | | | | |
| | (c) | Discuss Scanner class. | 2 | | | | |
| | (d) | Thread Synchronization. | 2 | | | | |
| | (e) | Keyword final. | 2 | | | | |
| | (f) | Garbage Collection. | 3 | | | | |
| | | | | | | | |