

K18P 0069

Reg. No. :

Name :

Third Semester M.C.A. Degree (Regular/Supplementary/Improvement)
Examination, January 2018
MCA3C14 : PROGRAMMING IN JAVA
(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION - A

Answer any ten questions, each question carries three marks.

1. Mention the uses of JVM.
2. How Applets are different from Application Program ?
3. What are the frequently used API packages of JAVA ?
4. How to declare objects in JAVA ?
5. Mention the uses of This Keyword.
6. List out the properties of Abstract classes.
7. What are the features of constructors ?
8. List out various limitations of static method.
9. Define synchronization of threads.
10. What are the significant features of component in AWT ?
11. List out the features of container.
12. How to establish the database connectivity using JDBC ?

(10×3=30)

P.T.O.



SECTION - B

Answer **all** questions, **each** question carries **ten** marks.

13. a) List out various operators and control statements of Java. Explain each one with suitable examples. 10
OR
- b) Write a Java Applet Program to display a message in a rectangle box as "WELCOME TO JAVA APPLET". 10
14. a) i) Discuss the different levels of access protection available in Java. 5
ii) Compare and contrast overloading and overriding methods of Java. 5
OR
- b) Write a Java program, which will read a text and count all occurrences of a particular word. 10
15. a) Discuss multithreading in Java, explain how it is achieved with suitable examples. 10
OR
- b) Explain how exceptions are used for program debugging with a suitable examples. 10
16. a) List out various AWT classes, explain briefly importance of each method. 10
OR
- b) What are the properties and merits of the following ? 10
i) FRAME
ii) PANEL
iii) MENU
iv) WINDOW.
17. a) Explain the following with proper features and merits. 10
i) Action Event
ii) Focus Event
iii) Text Event.
OR
- b) i) With neat diagram explain the architecture of JDBC. 5
ii) Mention the various methods and their uses of adapter classes. 5