

**PSG COLLEGE OF ARTS & SCIENCE**  
**(AUTONOMOUS)**  
**BCom DEGREE EXAMINATION DECEMBER 2017**  
**(Fifth Semester)**  
**Branch - e-COMMERCE**

**FUNDAMENTALS OF JAVA PROGRAMMING**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks!**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks (10 x 2 = 20)

- 1 Explain why java is called a platform independent language.
- 2 What is JDK?.
- 3 How are arrays declared in Java?
- 4 State the use of instance of operator in Java.
- 5 Define method overloading.
- 6 What are static members?.
- 7 What is package? Write any two system packages in Java.
- 8 Write any 2 thread methods.
- 9 Explain paint () method in an applet.
- 10 Write any four methods in the Graphics class.

**SECTION - B (25 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Write the differences between C++ and Java.  
OR  
b Explain the relationship between Java and Internet.
- 12 a Discuss the various operators in Java.  
OR  
b Explain the conditional statements in Java.
- 13 a Write a Java program using class and object.  
OR  
b Explain method overriding with example.
- 14 a Explain stopping and blocking a thread in Java.  
OR  
b What is an error? Explain the types of errors in Java.
- 15 a Explain passing parameters to Applet with an example.  
OR  
b Write an applet program using drawing methods.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Explain the various of Java features.
- 17 Write in detail about the looping statements in Java.
- 18 Explain the following: (i) Final Classes  
(ii) Abstract methods and classes. (5 +5)
- 19 Discuss thread priority with an example.
- 20 Write in detail about the Applet life cycle.