

**PSG COLLEGE OF ARTS & SCIENCE**  
**(AUTONOMOUS)**  
**BSc DEGREE EXAMINATION MAY 2018**  
**(Sixth Semester)**

Branch – **MATHEMATICS**

**ELECTIVE – II INTERNET & JAVA**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer **ALL** questions

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

- 1 What is ISP? Give examples.
- 2 Define : URL.
- 3 What is meant by byte code in java?
- 4 Define: (i) Encapsulation ii) Inheritance.
- 5 What is called constructor?
- 6 What is the different between final, finalize keywords in JAVA?
- 7 Distinguish between string and string buffer class.
- 8 Write about util package in Java.
- 9 Define an applet.
- 10 List out thread properties.

**SECTION - B (25 Marks)**

Answer **ALL** Questions

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

- 11 a Discuss briefly about internet addressing.  
OR  
b Discuss the hardware and software requirements needed to connect to the internet.
- 12 a Discuss about various primitive data types in JAVA.  
OR  
b Discuss about JAVA features.
- 13 a Discuss about interface in JAVA.  
OR  
b Write a small JAVA program to implementing method overriding concept.
- 14 a Write about arithmetic exception and number format exception classes in JAVA.  
OR  
b Discuss about various methods of string class in JAVA with suitable illustrations.
- 15 a Discuss briefly about graphics class in JAVA.  
OR  
b Discuss briefly about AWT in JAVA.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

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

- 16 Write the structure of HTML code and discuss the following HTML tags  
i) Anchor tag ii) Frame tag iii) Img tag iv) Form tag.
- 17 Discuss about various types of operators specified in java.
- 18 What is a package in JAVA? How can you create your own package and add classes in that? Explain with the help of an example.
- 19 Discuss about the life cycle of a thread.
- 20 Discuss about the life cycle of an applet.