

**C. ABDUL HAKEEM COLLEGE (AUTONOMOUS),
MELVISHARAM - 632 509.
SEMESTER EXAMINATIONS, NOVEMBER - 2018**

**B.Sc., COMPUTER SCIENCE / B.C.A.,
U15MCCS502 / U15MCA502 – PROGRAMMING WITH JAVA
SEMESTER V**

Time: Three Hours

Maximum: 75 Marks

SECTION - A (10 X 2 = 20 Marks)

Answer **ALL** Questions.

1. State the features of java.
2. Mention any four primitive data types used in java with its size.
3. Define array with syntax.
4. What is method overriding?
5. What are the uses of package?
6. Draw the life cycle of applet.
7. How do you throw an exception explicitly?
8. Mention any two constructors of thread class.
9. What are the types of streams defined in java?
10. Differentiate between notify() and notifyAll() methods.

SECTION - B (5 X 5 = 25 Marks)

Answer **ALL** Questions.

11. a) Explain if...else statement with an example.
(Or)

b) What is variable? Write the rules in framing the variable names.

12. a) Explain default constructor with an example.
(Or)

b) How do we access the static variables and static methods of a class?

13. a) Comment on interface with an example.

(Or)

b) Write an applet code to draw any three shapes.

14. a) Briefly explain the inner classes in AWT.

(Or)

b) How a resource is shared in a multithread environment? Explain.

15. a) Illustrate the role of BufferedReader class.

(Or)

b) How are firewall and proxy server used for ensuring network safety?

SECTION - C (3 X 10 = 30 Marks)

Answer **ANY THREE** Questions.

16. Explain the object oriented concepts of java in detail.
17. Discuss multilevel inheritance with an example.
18. Describe about action listener using any three AWT components.
19. Illustrate the user defined exception with an example.
20. a) 'Random Accessfile' is the only bidirectional stream in java. Explain.
b) What is object serialization? What useful purpose does it serve?
