

NBQ-003-027803 Seat No. \_\_\_\_\_ M. Sc. (ECI) (Sem. VIII) (CBCS) Examination April / May - 2017

Paper - 31 : Java Fundamentals & Practice (New Syllabus)

Faculty Code : 003 Subject Code : 027803

Time:  $2\frac{1}{2}$  Hours] [Total Marks: 70]

Instructions: (1) All questions carry equal marks.

- (2) Figures on right hand side indicate marks.
- 1 Answer the following: (Answer any **Seven** out of ten) 14
  - (1) What is the full form of JVM?
  - (2) What is the command to convert Java file to class file?
  - (3) What is the syntax of main () method of java program?
  - (4) What is Java?
  - (5) What is class?
  - (6) What is Applet?
  - (7) What is thread?
  - (8) What is the full form of OOP?
  - (9) Write syntax of enhanced for loop.
  - (10) Write any two graphics functions with syntax.
- 2 Attempt any two out of three:

**14** 

(1) Explain features of java in brief

7

(2) Explain operators in java.

- 7
- (3) What is class and object? Explain structure of class with suitable example.

3	Answer the following:		14
	(1)	What is inheritance? Explain types of inheritance	5
	(2)	What is looping? List out looping facility provided	5
		by java and explain for loop with suitable example.	
	(3)	What is array? Explain 2D array with suitable	4
		example.	
		OR	
3	Ans	swer the following:	<b>14</b>
	(1)	Write a note on Data types in java.	5
	(2)	Which type of conditional statements provided by	5
		java? Explain nested if With suitable example	
	(3)	What is abstract class? Explain with suitable example.	4
		(hint. Use inheritance)	
4	Attempt the following:		14
	(1)	Explain exception handling with example.	5
	(2)	What is package? Explain with example.	5
	(3)	Explain thread life cycle.	4
5	Answer the following: (Any two out of four)		14
	(1)	Explain multiple inheritances with suitable example.	7
	(2)	Write a Java program that take 3 numbers from user	7
		and print the smallest number from it.	
	(3)	Write a java program to make a class STUDENT	7
		having following properties and methods Properties:	
		studRoll, studName, marks of 4 subjects, Methods:	
		constructor (), calculate ( ), display ( ) result for the same	
	(4)	Applet for the following output on 300*300 pixel	7
		canvas.	

