



MBP-003-027803

Seat No. _____

M. Sc. (E. C. I.) (Sem. VIII) (CBCS) Examination
April / May - 2018

Paper - 31 : JAVA : Fundamentals & Practice

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 Java?
- (2) What is Array?
- (3) What is class?
- (4) What is inheritance?
- (5) List out bitwise operators in java.
- (6) _____ is an extension of class file in java.
- (7) To compile java program we use _____ command.
- (8) _____ stores inputs temporary in memory.
- (9) <= is _____ type of operator.
- (10) _____ is group of objects.

2 Attempt any **two** out of three : **14**

- (1) Explain features of java.
- (2) Explain conditional statement in java.
- (3) What is interface? Explain with suitable example.

3 Answer the following :

- (1) Explain types of variable in Java with suitable example. **5**
- (2) Explain structure of java program in brief. **5**
- (3) Write short note on java tokens. **4**

OR

3 Answer the following :

- (1) What is applet? Explain with suitable example. **5**
- (2) What is exception handling? Explain with example. **5**
- (3) What is thread? Explain thread life cycle with diagram. **4**

- 4 Answer the following :
- (1) Explain types of inheritance with diagram. 5
 - (2) Explain looping structure in java with example. 5
 - (3) Explain any five graphic functions with example. 4

- 5 Answer the following : (any **two** out of four) 14

- (1) Write a program to print following pyramid using loop :

```
1
2 3
4 5 6
7 8 9 10
```

- (2) Write a program to make a class product and enter and display product. item, qty, price

- (3) Write a java program to create employee pay slip base on following condition

```
DA      120% (add)
HRA     15% (add)
PF      12.5% (sub)
PT      <=10000 Rs. 150/-
        >10000  Rs. 200/-
```

- (4) Write program to draw following layout (use applet)

