

SUPPLEMENTARY EXAMINATION: JULY 2017

JAVA PROGRAMMING

Time :3 Hrs

Maximum Marks :70

Note: Attempt questions from all sections as directed.

Section - A : Attempt any Five questions out of Six . Each question carries 6 marks.

[30 Marks]

- Q1. (a) What is Byte code, Java Virtual Machine and Java Runtime Environment? (3)
(b) What is a constructor? Explain its types. Also justify the reason for why constructor can not be overridden (3)
- Q2. What are Command-line arguments? How are they useful? Write a program to find whether entered number is Armstrong number or not using command line arguments.
- Q3. Write the differences between
(a) Applet and an Application
(b) Nested Interface and Extended Interface.
(c) Suspend() and wait()
- Q4. Explain the Delegation Model for event handling with the help of suitable example.
- Q5. Develop a thread based program using Runnable interface to demonstrate the concept of Multithreading.
- Q6. What is Exception handling mechanism? Explain with the help of suitable example. What is the difference between checked and unchecked exception

Section - B : Attempt any two questions out of three. Each question carries 10 marks.[20 Marks]

- Q7. Write a program to implement fixed and dynamic stacks using interfaces.
- Q8. (a) What are the Layout Managers? Explain any two with example. (6)
(b) Explain the life cycle of an applet. (4)
- Q9. (a) Write a program to implement String tokenizer class. (5)
(b) Discuss various methods within the Thread class? How do we set priorities for thread? Give Example. (5)

Section - C : Compulsory question.

[20 Marks]

Q10. (a) Implement the application:

(10)

Create a class Employee. Derive three classes from this class namely Programmer Analyst & Project Leader. Take attributes and operations on your own.

(b) What is an Event and what are Event listeners? Explain Mouse and the Keyboard Events with examples. (5)

(c) Write an applet to draw national flag with colors. (5)
