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M3MIT02/CT10

M. Sc. I.T. IIIrd Semester
Examination, 2017-18
JAVA PROGRAMMING
Paper–II

Time : Three Hours

Maximum Marks : 80

PART - A   [Marks : 20

Answer all questions (50 words each).

All questions carry equal marks.

PART - B   [Marks : 40

Answer *five* questions (250 words each).

Selecting *one* from each unit. All questions carry equal marks.

PART - C   [Marks : 20

Answer any *two* questions (300 words each).

All questions carry equal marks.

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PART - A

UNIT - I

1. (i)   What is Garbage collection in Java ?

   (ii)   Define an instance variable in java ?

UNIT - II

   (iii) Differentiate between method overloading and overriding ?

   (iv)   When "this" keyword is used ?

UNIT - III

   (v)   Explain the term synchronization in java ?

   (vi)   How objects are handled that go out of scope in java?

UNIT - IV

   (vii) Draw the AWT class hierarchy ?

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(viii) What is an event listener in Java ?

UNIT - V

(ix) Define Swing ?

(x) Difference between a scrollbar and a scrollpane ?

PART - B

UNIT - I

2. Discuss the following :

(a) Bytecode

(b) Static fields and method

3. Write a program to find GCD of two numbers in java ?

UNIT - II

4. Differences between :

(a) Class and interface

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(b)   Abstract and final

5.   Create a package called "pack", then use the package in your program to perform different functions like addition, subtraction, multiplication and division ?

UNIT - III

6.   Describe the java throwable calss hierarchy and the types of exceptions ?

7.   Write a program to create two threads, one thread will print odd numbers and second thread will print even numbers between 1 to 10 numbers.

UNIT - IV

8.   What are the Applet's Life Cycle methods ? Explain them ?

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9. Write a program using AWT/Layout Managers to draw a human face using an applet ?

UNIT - V

10. Write short notes on :

(a) JPanel

(b) JFrame

11. What are swings in java ? Write a program in java to illustrate the use of one swing control ?

PART - C

UNIT - I

12. Describe the various operators used in Java with their classifications. Explain left shift and right shift operators with suitable examples ?

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UNIT - II

13. What is a package ? Explain, with an example, how name conflicts are resolved during package import ?

UNIT - III

14. Explain multithreading. How java implements its thread model ?

UNIT - IV

15. Explain with an example how events can be handled in java?

UNIT - V

16. Write short notes on :

    (a)   Hierarchy of java swing classes

    (b)   Layout managers

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