Reg. No. :

Question Paper Code: 34203

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Fourth Semester

Computer Science and Engineering

01UCS403 – JAVA PROGRAMMING

(Common to Information Technology)

(Regulation 2013)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What is Byte code?

2. What is an array?

3. What is package?

4. When do we declare a method or class abstract?

5. What is the thread state?

6. Write the two kinds of exception?

7. Give an example for composite pattern.

8. Mention name of a button component.

9. What is filter?

10. What is an input streams?

PART - B (5 x 16 = 80 Marks)

11. (a) (i) What is the use of THIS keyword? Explain with example. (8)

      (ii) Can constructor be overloaded? Justify. (8)

Or

(b) (i) Discuss about the usage of constructors with an example. (8)

      (ii) Explain any four string operations in java with suitable examples. (8)

12. (a) (i) Write a Java program that implements multiple inheritance using interface. (10)

      (ii) How Java implements run time polymorphism. Explain with example. (6)

Or

(b) What did you mean by polymorphism? Explain how run-time polymorphism is achieved in java with example. (16)

13. (a) With the illustration explain multi threading, thread life cycle and thread properties. (16)

Or

(b) Explain various exception handling mechanisms available in Java with neat example. (16)

14. (a) Construct a Java program to create a calculator with the four basic arithmetic operations(/, *, -, +). (16)

Or

(b) Write java program to illustrate mouse event handling. (16)

15. (a) What is deserialization in java? How to deserialize object in java? Explain with suitable program. (16)

Or

(b) List out the steps to be followed to connect java with database. Explain that with an example. (16)

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2

34203