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UG/2nd Sem/Comp/H/19

2019

B.Sc.

2nd Semester Examination

COMPUTER SCIENCE (Honours)

Paper - C3T

Full Marks : 40

Time : 2 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

1. Answer any *five* questions : 5×2
- (a) What is polymorphism ?
 - (b) What is an abstract class ?
 - (c) What is Java virtual machine ?
 - (d) What is package ? What is the use of packages in Java ?
 - (e) What do you mean by Destructor ?

[Turn Over]

- (f) What is an interface ?
- (g) What is meta class ?
- (h) What is multi-threading ?

Group - B

2. Answer any *four* questions : 4×5

- (a) What is object-oriented programming ? Discuss the basic characteristics of object-oriented programming ?
- (b) How do you define a class in Java ? How do you create its instances and refer to them ?
- (c) What are constructors ? Write down its various features and different types.
- (d) What are various techniques to handle Exceptions in Java ? Explain with example.
- (e) Explain the Applet life cycle in brief with suitable diagram. 5
- (f) Write a Java program to reverse a string read from keyboard. 5
- (g) How many constructors can a class definition have ? Why Java does not support multiple inheritance ? 2+3

Group - C

3. Answer any *one* questions : 1×10

(a) (i) Explain the user defined exception and system defined exception with appropriate example.

(ii) How does constructor overloading differ from method overloading ? 6+4

(b) (i) Can a super class object refer a sub class object ? Explain in brief.

(ii) What is the difference between abstract class and interface ?

(iii) Write a Java program to display the number and its sum of digits that are divisible by 4 and lie between 100 and 200. 3+2+5
