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# UG/5th Sem/Comp(H)/T/19

#### 2019

B.Sc. (Honours)

# 5th Semester Examination COMPUTER SCIENCE

Paper - C11T

[Advanced Java]

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

Answer any five questions from the following:

 $5 \times 2 = 10$ 

- 1. (a) What is the difference between pass by value and pass by reference?
  - (b) What is a JAR file in Java?
  - (c) What is the difference between an array and an ArrayList in Java?

[ Turn Over ]

- (d) Between JavaScript and JSP script, which is faster and why?
- (e) What is 'this' keyword in JavaScript?
- (f) What are the differences between class and object?
- (g) What is Java Sever page?
- (h) What are the main role of HTTP?

### Group - B

Answer any four questions:  $5 \times 4 = 20$ 

- 2. (a) Briefly explain different types of loops used in Java Script. 5
  - (b) Write down the steps to connect to the database in Java using JDBC.5
  - (c) What is the problem with Servlet? Briefly explain.
  - (d) What do you understand by the term multiple inheritance? What do you mean by dynamic method dispatch? 2+3

(e) What is the purpose of garbage collection in Java, and when is it used? What are the advantage and disadvantage of Java Socket?

3+2

(f) Define event and event handling. What are the problem with servlets?

#### Group - C

Answer any *one* question.

 $10 \times 1 = 10$ 

- 3. (a) What is the difference between declaring a variable and defining a variable? What are different types of inner class? What is static in Java? What are the advantages to use of object?

  3+3+2+2
  - (b) (i) Briefly explain the error handling process in a JSP page.
    - (ii) What are the tags used in JSP bean development?
    - (iii) Write down a simple JSP code to display your name in the page. 4+3+3