

**Pre. Ph.D. Course Work (2017 Course) : (Computer Application) :
SUMMER - 2019**

SUBJECT : PAPER – II : RECENT ADVANCES IN COMPUTER APPLICATION

Day : Wednesday
Date : 24/04/2019

Time : 10.00 AM TO 1.00 PM
Max. Marks : 100

S-2019-5359

N.B.

- 1) Attempt **ANY FIVE** questions from Section – I and **ANY FIVE** questions from Section – II.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – I

- Q.1** Discuss the concept of “Space Complexity of an Algorithm” in detail. **(10)**
- Q.2** List and briefly discuss various applications of “Big Data”. **(10)**
- Q.3** What is “Cloud Computing” and which are the benefits associated with it? **(10)**
- Q.4** Explain “Depth-First-Search” (DFS) algorithm in detail. **(10)**
- Q.5** List and briefly discuss various privacy issues involved with “Web Mining”. **(10)**
- Q.6** Write short notes on **ANY TWO** of the following: **(10)**
 - a) Public Cloud
 - b) Clustering Methods
 - c) Statistical Inference

SECTION – II

- Q.7** Write an algorithm to find **MAXIMUM** and **MINIMUM** amongst 8 integers. Also trace your algorithm for some sample input. **(10)**
- Q.8** What is “Fuzzy Logic”? List different scenarios suitable for its application. **(10)**
- Q.9** Explain in detail the concept of “Infrastructure-as-a-Service” (IaaS). **(10)**
- Q.10** What is “Big Data”? Also discuss in brief the “Variety” characteristic with respect to “Big Data”. **(10)**
- Q.11** Explain “Brute Force” algorithm design strategy along with an appropriate example. **(10)**
- Q.12** List and briefly discuss the applications of “Web Mining”. **(10)**

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