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Subject Code:- AMCABC0101

Roll. No:

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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

MCA

SEM: I - THEORY EXAMINATION (2022 - 2023)

Subject: Computers Concepts & Emerging Technologies

Time: 2 Hours

Max. Marks: 50

General Instructions:

IMP: Verify that you have received the question paper with the correct course, code, branch etc.

1. This Question paper comprises of **three Sections -A, B, & C.** It consists of Multiple Choice Questions (MCQ's) & Subjective type questions.
2. Maximum marks for each question are indicated on right -hand side of each question.
3. Illustrate your answers with neat sketches wherever necessary.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.
6. No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

SECTION A

15

1. Attempt all parts:-

- 1-a. _____ is responsible for converting the data received from the user into a computer understandable format. (CO1) 1
- (a) Output Unit
(b) Input Unit
(c) Memory Unit
(d) Arithmetic & Logic Unit
- 1-b. The arrangement where all data pass through a central computer is known as. (CO2) 1
- (a) Ring Topology
(b) Star Topology
(c) Bus Topology
(d) Mesh Topology
- 1-c. A program that is used to view websites is called (CO3) 1
- (a) Web viewer

- (b) Browser
 - (c) Spreadsheet
 - (d) Word processso
- 1-d. Data that is copied from an application is stored in the (CO4) 1
- (a) Driver
 - (b) Terminal
 - (c) Prompt
 - (d) Clipboard
- 1-e. What is Artificial Intelligence? (CO5) 1
- (a) Artificial Intelligence is a field that aims to make humans more intelligent
 - (b) Artificial Intelligence is a field that aims to improve the security
 - (c) Artificial Intelligence is a field that aims to develop intelligent machines
 - (d) Artificial Intelligence is a field that aims to mine the data

2. Attempt all parts:-

- 2.a. Differentiate between RAM and ROM. (CO1) 2
- 2.b. Explain advantage of Multiprogramming. (CO2) 2
- 2.c. Explain Smoke Sensor. (CO3) 2
- 2.d. Discuss the role of formula in MS Excel. (CO4) 2
- 2.e. Mention the benefits of Emerging Technologies? (CO5) 2

SECTION B

15

3. Answer any three of the following:-

- 3-a. Write an algorithm to print factorial of a given numbers. (CO1) 5
- 3-b. Discuss the three main purposes of an operating system. (CO2) 5
- 3.c. Why is Internet called Network of Networks. (CO3) 5
- 3.d. Write the steps for creating a new presentation. (CO4) 5
- 3.e. Explain Cloud Computing and applications of Cloud Computing. (CO5) 5

SECTION C

20

4. Answer any one of the following:-

- 4-a. Difference between Analog and Digital Computer. (CO1) 4
- 4-b. Explain any six input and output devices with their use. (CO1) 4

5. Answer any one of the following:-

- 5-a. Explain various types of Data representation. (CO2) 4

5-b. Explain Network Topologies. Also discuss various Network Topologies with suitable diagram. (CO2) 4

6. Answer any one of the following:-

6-a. Explain IoT and characteristics of IoT. (CO3) 4

6-b. Compare Search Engine and Web browser. (CO3) 4

7. Answer any one of the following:-

7-a. Describe the alignment. Explain the various alignment supported by MS word. (CO4) 4

7-b. Explain about the slide layout available in powerpoint. (CO4) 4

8. Answer any one of the following:-

8-a. Discuss the important issues related to Big Data. (CO5) 4

8-b. Define Virtual Reality with examples. (CO5) 4