Enrollment No......................................

Faculty of Science
End Sem (Odd) Examination Dec-2018
BC3CO01/CA3CO03 Computer Fundamentals
Programme: B.Sc.(CS) /   Branch/Specialisation: Computer Science /
BCA   Computer Application

Duration: 3 Hrs.   **Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1 i. Which technology was used in second generation computers?   **1**
(a) Transistors (b) Vacuum tubes (c) Microprocessors (d) IC's

ii. What does MICR stand for?   **1**
(a) Magnetic ink character recognition
(b) Magnetic input column reader
(c) Magnetic ink column recognition
(d) Magnetic ink character Reader

iii. ……………….. is an example of an operating system that support only   **1**
single user process and single thread.
(a) UNIX   (b) MS-DOS
(c) OS/2   (d) Windows 2000

iv. What is full form of TCP?   **1**
(a) Transfer control protocol   (b) Transmission control protocol
(c) Transmit control protocol   (d) Transfer communication protocol

v. The worm uses the _____ technique to replicate themself on   **1**
network:
(a) Remote Login   (b) File Transfer
(c) Automated E-mail   (d) All of these

vi. What kind of attempts is made by individuals to obtain confidential   **1**
information from a person to get their identity?
(a) Computer viruses   (b) Spyware scams
(c) Phishing scams   (d) None of these

vii. The term _____ is used to refer a row in relational DBMS.   **1**
(a) Attribute (b) Tuple   (c) Field   (d) Instance

viii. Data about data is normally termed as: **1**
(a) Directory (b) Data bank   (c) Meta data   (d) Manifest

ix. Which of the following is essential concept related to cloud?   **1**
(a) Reliability (b) Productivity   (c) Abstraction   (d) All of these

x. Which of the following is cloud platform by amazon?   **1**
(a) Azure   (b) AWS   (c) Cloudera   (d) All of these

Q.2   Attempt any two:
i. What is the difference between impact printer and a non-impact printer?   **5**
Which is capable of higher speed?
ii. Explain the different types of computer software?   **5**
iii. What is difference between volatile and non-volatile memory? Is RAM a   **5**
volatile or non-volatile memory?

Q.3 i. What is the difference between LAN and WAN?   **4**
ii. What is a web browser? Write a short note on any one of the most   **6**
commonly used web browsers.
OR iii. What is a process state? Explain the various states of a process with help   **6**
of diagram.

Q.4   Attempt any two:
i. Why do people create viruses and malware?   **5**
ii. What is Trojan Horse? Give few examples?   **5**
iii. How does spoofing and phishing differ? Explain.   **5**

Q.5 i. What is data independence?   **3**
ii. Write short note on database management system architecture?   **7**
OR iii. Define the various data models and list the advantages and disadvantages   **7**
of data models.

Q.6   Attempt any two:
i. Explain PaaS and SaaS with example.   **5**
ii. What is cloud computing? Write its advantages and disadvantages.   **5**
iii. Explain community and hybrid cloud in short.   **5**

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<div align="center">Marking Scheme</div>
<div align="center">BC3CO01/CA3CO03 Computer Fundamentals</div>

Q.1   i.   Which technology was used in second generation computers?   **1**
(a) Transistors

ii.   What does MICR stand for?   **1**
(a) Magnetic ink character recognition

iii.   ……………….. is an example of an operating system that support   **1**
only single user process and single thread.
(b) MS-DOS

iv.   What is full form of TCP?   **1**
(b) Transmission control protocol

v.   The worm uses the _____ technique to replicate them self   **1**
on network:
(d) All of these

vi.   What kind of attempts is made by individuals to obtain   **1**
confidential information from a person to get their identity?
(c) Phishing scams

vii.   The term _____ is used to refer a row in relational DBMS.   **1**
(b) Tuple

viii.   Data about data is normally termed as: **1**
(c) Meta data

ix.   Which of the following is essential concept related to cloud?   **1**
(c) Abstraction

x.   Which of the following is cloud platform by amazon?   **1**
(b) AWS

Q.2   Attempt any two:-
i.   Four difference b/w impact printer and a non-impact printer   **5**
1 mark for each   4 marks
Higher speed   1 mark

ii.   Types of computer software   1 mark   **5**
Describing types of software.   4 marks

iii.   Difference between volatile and non-volatile memory   **5**
1 mark for each difference (1 mark * 4)   4 marks
Is RAM a volatile or non-volatile memory   1 mark

Q.3   i.   Difference between LAN and WAN   **4**
1 mark for each difference (1 mark * 4)   4 marks

ii.   Definition web browser   2 marks   **6**
Most commonly used web browsers   4 marks

OR   iii.   Definition of process state   2 marks   **6**
Various states of a process with diagram   4 marks

Attempt any two:-
Q.4   i.   Why do people create viruses and malware?   **5**
2.5 for each   (2.5 marks *2)

ii.   Definition of Trojan Horse   3 marks   **5**
Few examples   2 marks

iii.   How does spoofing and phishing differ? Explain.   **5**
2.5 for each   (2.5 marks *2)

Q.5   i.   Data independence   **3**
ii.   Database management system architecture   **7**
Diagram   2 marks
Description.   5 marks

OR   iii.   Data models.   4 marks   **7**
Advantages & disadvantages.   3 marks

Q.6   Attempt any two:
i.   PaaS and SaaS with example.   **5**
2.5 marks for each.   (2.5 marks * 2)

ii.   Definition of cloud computing   2 marks   **5**
Advantages and disadvantages.   3 marks

iii.   Community and hybrid cloud   **5**
2.5 marks for each   (2.5 marks * 2)

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