

Enrollment No.....



Faculty of Science
End Sem (Odd) Examination Dec-2017
BC3CO01/CA3CO03 Computer Fundamentals
 Programme: B.Sc.(CS) Branch/Specialisation: Computer Science /
 / BCA Computer Application

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

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. Microsoft word is an example of **1**
 (a) An operating system (b) An input device
 (c) An application software (d) A system software
- ii. _____ Keys are present on the top row of the keyboard. **1**
 (a) Function (b) Type writer (c) Numeric (d) None of these
- iii. Which is not the state of the process? **1**
 (a) Blocked (b) Running (c) Ready (d) Privileged
- iv. Protocols are set of rules to govern **1**
 (a) Communication (b) Standards
 (c) Metropolitan communication (d) None of these
- v. Which network protocol is used to send e-mail? **1**
 (a) FTP (b) SSH (c) POP3 (d) SMTP
- vi. A program that appears to be useful, but attempts to steal and pass confidential information: **1**
 (a) Worm (b) Spyware
 (c) Trojan Horse (d) None of these
- vii. A _____ is used to define the overall design of the database **1**
 (a) Schema (b) Application Program
 (c) Code (d) Data Definition language
- viii. Which database level is closest to the user? **1**
 (a) External (b) Internal (c) Physical (d) Conceptual
- ix. _____ is a feature of cloud computing that allows the service to change in size or volume in order to meet a user's needs **1**
 (a) Scalability (b) Virtualization (c) Security (d) Cost-saving

- x. _____ describes distribution model in which applications are hosted by a service provider & made available to users **1**
 (a) Infrastructure-as-a-service (IaaS)
 (b) Platform-as-a-service (PaaS)
 (c) Software-as-a-service (SaaS)
 (d) Cloud Service

- Q.2 i. Define form data and information. **2**
 ii. What is system and application software? **3**
 iii. Explain cache memory in detail. **5**
 OR iv. Describe storage device and its type in detail. **5**
- Q.3 i. Define the term WWW in short. **2**
 ii. What is OS? What are the basic functions of OS? **8**
 OR iii. Explain different Network topologies in detail. **8**
- Q.4 i. Differentiate between spyware and anti-spyware software. **3**
 ii. What is computer virus and types of virus? **7**
 OR iii. What is ethical hacking? List out some of the common tools used by ethical hackers. **7**
- Q.5 i. Discuss entity integrity and referential integrity constraints. Why each is considered important? **4**
 ii. Compare network, hierarchical and relation model of database by giving suitable example. **6**
 OR iii. Describe the generalized architecture of database system. **6**
- Q.6 Attempt any two:
 i. What is cloud computing? Write down advantages and disadvantages of cloud computing. **5**
 ii. Explain different types of cloud. **5**
 iii. What is platform-as-a-service (PaaS)? **5**

P.T.O.

BC3CO01/CA3CO03 Computer Fundamentals
Marking Scheme

Q.1	i. Microsoft word is an example of Ans- (c) Application software	1	Ans: 2-marks for storage device 3-marks for its type description		
	ii. _____Keys are present on the top row of the keyboard. Ans- (a) Function	1			
	iii. Which is not the state of the process? Ans- (d) Privileged	1			
	iv. Protocols are set of rules to govern Ans- (a) Communication	1			
	v. Which network protocol is used to send e-mail? Ans- (d)SMTP	1			
	vi. A program that appears to be useful, but attempts to steal and pass confidential information: Ans- (b) Spyware	1			
	vii. A _____ is used to define the overall design of the database Ans- (a)Schema	1			
	viii. Which database level is closest to the user? Ans- (a)External	1			
	ix. _____ is a feature of cloud computing that allows the service to change in size or volume in order to meet a user's needs Ans- (a) Scalability	1			
	x. _____ describes distribution model in which applications are hosted by a service provider & made available to users Ans- (c)Software-as-a-service(SaaS)	1			
Q.2	i. Define form data and information. Ans: 1-mark for data 1-mark for information	2			
	ii. What is system and application software? Ans: 1.5-marks for system software 1.5-marks for application software	3			
	iii. Explain cache memory in detail with diagram. Ans: 1-mark for diagram 4-marks for description	5			
OR	iv. Describe storage device and its type in detail.	5			
				Q.3	
				i. Define the term WWW in short. Ans: 2-marks for defining WWW.	2
				ii. What is OS?What are the basic functions of OS. Ans: 3-marks for os description 5-marks for functions.	8
				OR	8
				iii. Explain different Network topologies in detail. Ans: 3-marks for diagram for all topologies 5-marks for description of all topologies	8
				Q.4	3
				i. Differentiate between spyware and anti-spyware software. Ans: 1.5-marks for spyware 1.5-marks for anti-spyware	3
				ii. What is computer virus and types of virus. Ans: 2-marks for virus definition. 5-types for types of virus.	7
				OR	7
				iii. Explain what is ethical hacking? List out some of the common tools used by ethical hackers. Ans: 5-marks for ethical hacking definition. 2-marks name of tools.	7
				Q.5	4
				i. Discuss entity integrity and referential integrity constraints. Why each is considered important. Ans: 2-marks for entity integrity 2-marks for referential integrity	4
				ii. Compare network, hierarchical and relation model of database by giving suitable example. Ans: 2-2-marks for describing each type of model.	6
				OR	6
				iii. Describe the generalized architecture of database system. Ans: 2-marks for labelled diagram 4-marks for description	6

Q.6

Attempt any two:

- i. What is cloud computing? Write down advantages and disadvantages of cloud computing. **5**

Ans: 2-marks for defining cloud computing.

1.5-marks for advantages

1.5-marks for disadvantages

- ii. Explain different types of cloud. **5**

Ans: 1-marks for writing type name

4-marks for describing types of cloud

- iii. What is platform-as-a-service (PaaS)? **5**

Ans: 5-marks for describing PaaS.