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## Enrollment No.....

## Faculty of Engineering / Science End Sem (Odd) Examination Dec-2019 BC3CO01/CA3CO03 Computer Fundamentals

Programme: BCA-MCA(Integrated) Branch/Specialisation: Computer Science/ Computer Application /B.Sc.(CS)/BCA

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

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (M

(MCQ	s) shou	ald be written in full instead of	only a, b, c or d	l.	
Q.1	i.	A CPU contains:			1
		(a) A card reader and a printing	ng device		
		(b) An analytical engine and a control unit			
		t			
		(d) An arithmetic logic unit an	nd a card reade	r	
	ii. BIOS stand for:				1
		(a) Basic Input Output System	n		
		(b) Binary Input Output Syste	(b) Binary Input Output System		
		(c) Basic Input Off System			
		(d) None of these			
	iii.	Which of the following are the functions of an operating system?			1
		, ,	(b) Monitors A		
		(c) Manages disks and files	` '		
	iv.	Which of the following device connected?	e broadcasts the	e signal to all the devices	1
		(a) Hub (b) Switch	(c) Gateway	(d) Router	
	v.	v. A program that appears to be useful, but attempts to steal and pa			
		confidential information:			
		(a) Worm	(b) Spyware		
		(c) Trojan Horse	(d) None of the	ese	
	vi.	Network protocol which is us		file:	1
		(a) SMTP (b) SNMP	(c) POP3	(d) FTP	
	vii. A field or a combination of fields that has a unique value is called				1
		(a) Foreign key	(b) Secondary	· ·	
		(c) Primary key	(d) None of the	ese	

	V111.	(a) Attribute (b) Tuple (c) Field (d) Instance	1			
	ix.	describes a cloud service that can only be accessed by a	1			
		limited number of people.	_			
		(a) Data Centre (b) Private Cloud				
		(c) Public Cloud (d) Virtualization				
	х.	Which of these is not a major type of cloud computing usage?	1			
		(a) Hardware as a service (b) Platform as a service				
		(c) Software as a service (d) Infrastructure as a service				
Q.2	i.	Differentiate between system software and application software.	3			
	ii.	Discuss pros and cons of Information technology in detail. What are different types of computers?				
OR	iii.	How central processing unit works in a computer system? What are the	7			
OK	111.	different types of memory?				
		different types of memory.				
Q.3	i.	How World Wide Web works?	3			
	ii.	Write various services of Operating System in detail.	7			
OR	iii.	Define computer network. Differentiate between LAN and WAN.	7			
		•				
Q.4	i.	Differentiate between Trojan and Worm.	3			
	ii.	What are the different types of attacks in any computer system? 7				
		Explain them in detail.				
OR	iii.	What are the different security measures in Firewall? Discuss it in	7			
		detail.				
Q.5	i.	Enlist various roles of DBA.	3			
<b>Q.</b> 5	ii.	Why three level architecture of database system is used? Explain	7			
	111.	with its diagram.	•			
OR	iii.	Define database with its properties. Compare file-based approach &	7			
011		database approach.	•			
		······································				
Q.6	i.	Define cloud. What is cloud computing?	3			
-	ii.	Explain different service delivery models in cloud with details.	7			
OR	iii.	Discuss various advantages and disadvantages of cloud computing in	7			
		detail.				

P.T.O.

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## Marking Scheme BC3CO01/CA3CO03 Computer Fundamentals

Q.1	i.	A CPU contains:		1	
		(c) A control unit and an arithmetic logic unit			
	ii.	BIOS stand for:			
		(a) Basic Input Output System			
	iii.	Which of the following are the functions of an open	rating system?	1	
		(d) All of these			
	iv.	Which of the following device broadcasts the signal to all the devices connected?			
		(a) Hub			
	v.	A program that appears to be useful, but attempts to	o steal and nass	1	
	confidential information:				
		(c) Trojan Horse			
	vi.	Network protocol which is used to transfer a file:		1	
	, 2,	(d) FTP		_	
	vii.	• *			
		(d) None of these			
	viii.	viii. The term is used to refer to a row in relational DBMS.			
		(b) Tuple			
	ix.	describes a cloud service that can only be accessed by a			
		limited number of people.			
		(b) Private Cloud			
	х.	Which of these is not a major type of cloud computing usage?			
		(a) Hardware as a service			
Q.2	i.	Differences b/w system software and application software			
		1 mark for each difference	(1 mark * 3)		
	ii.	Pros and cons of Information technology		7	
		At least five points from pros and cons each	5 marks		
		Types of computers	2 marks		
OR	iii.	Central processing unit works in a computer system	n 5 marks	7	
		Types of memory	2 marks		
Q.3	i.	World Wide Web works		3	
	ii.	Services of Operating System		7	
		Minimum 5 services	5 marks		
		Example	2 marks		

OR	iii.	Computer network Difference b/w LAN and WAN	2 marks	7
		At least 5 points 1 mark for each (1 mark * 5)	5 marks	
Q.4	i.	Difference b/w Trojan and Worm		3
		At least 5 points 1 mark for each	(1 mark * 3)	
	ii.	Types of attacks in any computer system	2 marks	7
		Explanation	5 marks	
OR	iii.	Security measures in Firewall	2 marks	7
		Explanation	5 marks	
Q.5	i.	At least three roles of DBA 1 mark for each	(1 mark * 3)	3
	ii.	Three level architecture of database system is used	5 marks	7
		Its diagram	2 marks	
OR	iii.	Database with its properties	2 marks	7
		Compare file-based approach & database approach		
		At least 5 points 1 mark for each (1 mark * 5)	5 marks	
Q.6	i.	Definition of cloud	1 mark	3
		Cloud computing	2 marks	
	ii.	Service delivery models in cloud		7
		Naming services	1 marks	
		Explanation 2 marks for each services (2 marks*3)	6 marks	
OR	iii.	Advantages of cloud computing (at least 5 points)	3.5 marks	7
		Disadvantages (at least 5 points)	3.5 marks	•

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