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III Semester B.A./B.Sc./B.Com./B.B.A./ B.B.A. T.T.M./B.B.M./B.C.A./ B.S.W./B.A. Afsal-UI-Ulama Degree (CCSS – Reg./Supple./Improve.) Examination, November 2012 3B07 BCA : COMPUTER ORGANIZATION (BCA Core Course)

ime : 3 Hours

Max. Weightage: 21

Note: 1) Answer all Sections.
2) Answer for a question, irrespective of Section shall be awarded grade A (4), B(3), C(2), D(1) or E (0).

SECTION - A

Answer all questions. Weightage for a bunch of four questions is 1.

I. 1) Computer Memory

a) Performs all calculations

- c) Is extremely limited
- b) Receives input data
- d) Is better than human memory

2) ROM is composed of :

- a) Magnetic cores b) Microprocessors
- c) Photoelectric cells d) Floppy disks
- 3) In virtual storage, program segments stored on disk during processing are called :
 - a) Sections b) Partitions c) Pages d) Sectors
- 4) It loses its stored information in a very short span of time though computer is under working.
 - a) PROM b) SRAM c) DRAM d) EPROM P.T.O.

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II. 5)	XGA Monitor (Exter	nded Graphics Array)	pixels range is	-		
	a) 640×480	b) 640×800	c) 1024 × 768	d) 768 × 64		
6)	6) 1 Tera Byte (1 TB) is equivalent to					
9.9.8	a) 2 ³⁰	b) 2 ³⁵	c) 2 ⁴⁰	d) 2 ⁴⁵		
7)) Equivalent Hexadecimal fraction is of decimal equivalent (A9.328) ₁₆ = (?) ₁₀					
	a) 162.1972	b) 165.1972	c) 167.1972	d) 169.1972		
8)	(101100.1011111)2	to hexadecimal is				
	a) (2A.BE) ₁₆	b) (2B.BE) ₁₆	c) (2C.BE) ₁₆	d) (2D.BE) ₁ (2 ×		

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SECTION - B

Answer any 5 questions. Weightage 1 each :

- 9) What are the significant features 2's compliment ?
- 10) Define an instruction. What are different instruction formats?
- 11) What are the functions of DMA?
- 12) Compare and contrast RISC and CISC.
- 13) List out the properties of virtual memory.
- 14) Distinguish between Associate Memory and Auxiliary Memory.
- 15) What is meant by Cache Memory ?
- 16) What are the modes of transfer?

SECTION-C

Answer any 5 questions. Weightage 2 each :

- 17) What is BCD ? Discuss the 8421 code and invalid codes.
- 18) Explain with suitable example fixed point representation.
- 19) How do you handle multiple interrupts?

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A management		-3-	Ma	2277	
	What are the problems facing, when implementing pipelining ? Briefly explain.				
68 × 640	Mention properties of peripher	ral devices.			
45	Explain the key characteristics of Memory Systems.				
	How I/O Bus and interface mo	odules are connected ?			
$_{;}=(?)_{10}$	Discuss the different types of	micro instructions.	(5×2	=10)	
69.1972		OFOTION D			

SECTION - D

2D.BE)₁₆ swer any one question. Weightage 4:

- (2×1) With neat diagram discuss the properties, functions and uses of components of Digital Computer.
 -) With suitable example explain Various Addressing Modes of 8086. (1×4=4)

(5×1:

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