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Comp/I/01/09 -- I

2008-09

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group - A

(Compulsory)

Answer all questions:

 $2 \times 10 = 20$

- 1. Select the correct option from the following:
 - (a) UNIVAC is an example of:
 - (i) First Genereation Computer
 - (ii) Second Generation Computer
 - (iii) Third Generation Computer
 - (iv) Fourth Generation Computer

EL - 6/1

(Turn over)

	and the search of the search of the
(h) An imaginary mamary supported	hutha
(b) An imaginary memory supported operating system in conjuction w	
secondary memory :	nui uie
(i) Cache Memory	
(ii) Primary Memory	
(iii) Virtual Momory	
(iv) Secondary Memory	
	orm of O
(c) Which one is not the language of Inte	emet?
(i) Perl	
(ii) HTML	bo1
(iii) XML	
(iv) Java	
(d) Fastest Memory in computer system	ı is :
(i) ROM	
(ii) RAM	
(iii) Cache	
(iv) None of the above	
(e) The spiral shape track formatting is	present
in: 512 0/18	
(i) Floopy Disk	
EL-6/1 (2)	Contd.
/	

(ii) Optical Disk (iii) Hard Disk (iv) Magnetic Tape Real (f) Firmware is: (i) Software embedded in hardware (ii) Liveware embedded in software (iii) Liveware embeded in hardware (iv) None of the above (g) Which of the following best describes 'SOFTWARE'? (i) O/S programs only (ii) Application programs only (iii) Both (i) and (ii) (iv) None of the above (h) I Kbits is: 1000 bits (ii) 512 bits (iii) 1024 bits (iv) None of the above (Turn over) EL - 6/1(3)

	(iii) High Level Language
	(iv) Assembly Language
	(j) The way networks are physically converted together is called :
	(i) Protocol (ii) Hub
	(iii) Linear Bus (iv) Topology
1	Group – B
	Answer any four questions.
	 Define Computer. Also explain the functioning of the computer with its block diagram.
	3. Perform the following conversions: 15 (a) $(0001101)_2 = (?)_{10}$
	(b) $(278)_{10} = (?)_2$
	EL - 6/1 (4) Contd.

The language understood by a computer

without translation is called:

(ii) Machine Language

Command Language

	(c)	$(0.625)_{10} = (?)_2$
	(d)	$(ABC)_{16} = (?)_8$
	(e)	$(1101011.1011)_2 = (?)_2$
4.	Disc	cuss the advantages and disadvantages of
	the	following languages: 15
	(a)	Machine Languages
	(b)	Assembly Languages
	(c)	High Level Languages (HLL)
5.	Distinguish between the followings: 15	
	(a)	Input Devices and Output Devices
	(b)	RAM and ROM
	(c)	BCD and EBCDIC
6.	Explain the following types of operating system	
	in detail:	
	(a)	Batch Processing
	(b)	Time Sharing
	(c)	Multi Tasking
	(d)	Real Time
	(e)	Multi Processing
EL	– 6/ <i>*</i>	1 (5) (Turn over)

- What do you mean by computer network?
 Describe its advantages and disadvantages.
 Also explain various types of networks.
- With the help of diagram, explain various network topologies present in the computer networks.15
- Explain the need of information in our lives. Also describe the essential components of information technology.
- 10. Describe the following networking devices in details:
 - (a) Router
 - (b) Hub
 - (c) Gateway
 - (d) Bridge

