NTK/KW/15/5950

Bachelor of Computer Applications (B.C.A.) Semester–I Examination COMPUTER FUNDAMENTALS

Naper—I

Time—Three Hours]

[Maximum Marks—50

N.B.— All questions are compulsory carry equal.

EITHER

- 1. (A) Explain Primary Memory in detail. 5
 - (B) Perform the following using 2's complement method:

(i)
$$48 - (-23)$$

(ii)
$$28 - 17$$
.

5

OR

(C) Convert the following as per instruction :

(i)
$$(0.687)_{10} = (?)_{8}$$

(ii)
$$(6327.4051)_8 = (?)_{10}$$

(iii)
$$(11101)_2 = (?)_8$$

(iv)
$$(A72E)_{16} = (?)_8$$

(v)
$$(2F9A)_{16} = (?)_2$$

- (D) Write notes on the following:
 - (i) Interpreter

5

5

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Contd.

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	EITH	HER		OR	
2.	(A)	Differentiate Static and Dynamic Memory.	5	(C)	Write application of wi-fi network in detail. 5
	(B) OR	Explain different types of Primary Memory.	5	(D)	What are different network protocols? Discuss in detail.
	(C) Explain how data is stored and accessed in optical		iaal	5. Solve (Any Ten):	
		disk.	5	(i)	What is Instruction Format ?
	(D)	Write note on :		(ii)	What is sequential access storage device?
	, ,	(i) Blue ray		(iii)	Define Latency.
		(ii) Pen Drive.	5	(iv)	What is Seek Time ?
	EITH			(v)	How storage capacity of hard disk is calculated?
3.	(A)	Discuss in detail working of Laser Printer with help of suitable diagram.	the 5	wi)	Write the names of sequential and random storage devices.
		•		(vii)	Why WAN is called as Long Haul network?
	` '	Explain the laser beam technology used in bar c reader.	5		Define Topology.
	OR	reader.		(ix)	
		Write application of Light Pen, Touch Screen, Vo	viaa COIII	(x)	What is IP Address ?
		Input in different Commercial areas.	550	(xi)	Write one difference to differentiate Compiler and
		Write notes on :		,	Interpreter. $1 \times 10 = 10$
	. ,	(i) MICR			
		(ii) OCR.	5		
	EITH	HER			
4.	(A) What are different types of network? Explain use		use		
		of each type of network.	5		
	(B)	Explain Linear and Tree topology.	5		
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