14/12/19E

## This question paper contains 4 printed pages.

Your Roll No. .....

Sl. No. of Ques. Paper: 8636 J

Unique Paper Code : 62341101

Name of Paper : Computer Fundamentals

Name of Course : B.A. (Prog.) Computer Applications

Semester : I

Duration : 3 hours

Maximum Marks : 75

Attempt all the parts of Question No. 1.

Attempt any five questions from Question No. 2 to Question No. 8. All parts of a question should be answered together.

## SECTION A

## Attempt all the parts.

- 1. (a) Write the full forms of:
  - (i) MICR
  - (ii) FLOPS
  - (iii) EEPROM
  - (iv) OMR

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- (b) Convert the binary number 011011 into the following representations:
  - (i) 1's complement
  - (ii) 2's complement

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(c	) Differentiate between volatile memory and non-volat	ile	)	(ii) Direct access and Sequential access.	
	memory. Give examples of each.	2		(iii) Minicomputer and Supercomputer.	6
(d	) Briefly explain the working of the following registers:		(b)	What are Magnetic tapes? How is the data stored of	n
	(i) PC			them?	4
	(ii) MBR	4 4.	(a)	What do you understand by Timesharing? What are i	ts
(e	) Add (01010) <sub>2</sub> to (10000) <sub>2</sub> .	2		advantages?	4
(f)	Define the following:		(b)	Define operating system. What are its functions?	6
	(i) Multiprogramming.				
	(ii) Cache memory.	4 5.	Wr	ite short notes on :	
(g	) What is application software? Explain giving example.	3	(i)	Cloud computing	
(h)	Arrange the memories in increasing order of the	eir	(ii)	ROM	
	speed:		(iii)	Microcomputers	
Testan	Register, RAM, Hard Disk, Magnetic Tape	2	(iv)	Flash Drive	
-(i)			(v)	Mouse 2:	5
	(i) (1694) <sub>10</sub>	6.	(a)	What are the components of computer hardward	?
	(ii) (135) <sub>8</sub>	2		Describe functions of each component with the help of	a
-	Could Write too Bill Massage			diagram.	6
	SECTION B		(b)	Define a Bus. What are the different types of buses?	4
	Attempt any five questions.	7.	(a)	Subtract the following using complementary method:	
2. (a)	What are Point-and-Draw devices? Explain any two wi	th		(i) $(110111)_2 - (0100100)_2$	
	examples.	6		(ii) $(1100)_2 - (1011)_2$	4
(b)	What is RAM? Briefly describe the two types	of	(b)	What is an optical disk? Explain the working of an optic	al
	RAM.	4		disk.	6
3. (a)	Differentiate between:	8.	(a)	Explain briefly the use of computers in the following	ng
	(i) Dot Matrix and Inkjet Printers			areas:	
8636	2	863	6	3 P.T.	0.

- (i) Advertising
- (ii) Medicine
- (iii) Home.
- (b) What do you understand by base of a number in a number system? Give an example to illustrate the role of base in positional number system.

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