NEW

2015

BCA

1st Semester Examination COMPUTER FUNDAMENTALS AND APPLICATION SOFTWARE

PAPER-1101

Full Marks: 70

Time: 3 Hours

The figures in the margin indicate full marks.

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

Illustrate the answers wherever necessary.

Group - A

Attempt O. No. 1 and any two from the rest.

l.	(a)	Define virtual memory.	2
	(b)	Write down the difference between assembly land high level language.	inguage 4
	(c)	What is ALU and why it is used?	4
	(d)	What is Main Frame Computer 2	1

(Turn Over)

			555
2.	(a)	What is Algorithm and why it is used?	4
	(b)	Convert the following number:	15
		$(362.14)_8 = (?)_{10}$ and $(7ACD)_{16} = (?)_{10}$	4
	(c)	Define De-Morgans Law.	2
	(d)	What is Hardware of a Computer System?	2
3.	(a)	Write the difference between optical mouse a mechanical mouse.	ınd 3
	(b)	Explain the printing mechanism of laser printer	. 4
	(c)	What is the storage capacity of an unformatted 5 inch optical dirk having 330000 sectors each of 23 bytes?	
	(d)	Define bus. What is bus width?	2
4.	(a)	Explain now an output is displayed using C monitor with the help of a neat diagram.	RT 6
	(b)	Explain the main functions performed of the syst software of a computer system.	em 3
	(c)	Write a short note on 'Digitizer'.	3
5.	(a)	What is Flow chart and write down the elements Flow chart.	of +3

(b) Write some advantage of Flow chart.

3

	(c)	Draw a Flowchart for Greatest Common divisior (GC of two numbers.	D) 3		
	(d)	What is CPU of a computer system?	2		
		Group — B			
9	Attempt Q. No. 6 and any two from the rest.				
5.	(a)	Write the read-write operation of a memory unit.	4		
	(b)	Write the difference between bit rate and baud ra	te. 2		
	(c)	What is an optical fiber? How is it used for da communications? What are its advantages?	ita 5		
7.	(a)	What is LAN?	2		
	(b)	Write down the difference between LAN and WAN.	4		
	(c)	Explain FTP with its Benefit.	4		
	(d)	Write down benefit of E-mail.	2		
3.	(a)	Explain ISO/OSI Reference Model with suitable Blo diagram.	ck 7		
	(b)	Write down the differences between primary a secondary memory.	nd 3		
	(c)	What is HTML?	2		

9.	(a)	What is Cache memory? Explain the benefit of memory.	of Cache 5
	(b)	Explain Frequency Division Multiplexing.	4
	(c)	What is E-Commerce?	2
	(d)	What is Modem?	. 1
10.	Wr	ite short note on any three:	3×4
	(i)	FTP;	
	(ii)	www ;	e:
	(iii)	Magnetic Tape ;	
	(iv)	WAN;	

(v) Network Topology.