2019

COMPUTER FUNDAMENTAL AND APPLICATION

PAPER -1101

Full Marks: 70

Time: 3 hours

The figures in the right-hand margin indicate marks

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

Illustrate the answers wherever necessary

GROUP - A

Answer Q.No. 1 and any two from the rest

- 1. (a) What are the advantages of multiprogramming?
 - (b) What are the disadvantages of machine-level language?

(c) Calculate using 2's complement method:	3
$(10101)_2 - (1001)_2$.	

- (d) What do you mean by floating point representation of a number? Explain with a suitable example. 2 + 2
- (a) Explain 2nd and 3rd generation of computers 3 + 3along their characteristics.
 - (b) What are the differences between compiler
 - and interpreter? 3 (c) Evaluate $(5BAC)_{14} = (?)_{10}$
- (a) Simplify the expression

•
$$AB + \overline{AC} + A\overline{B}C(AB + C)$$
.
(b) What do you mean by BCD code? Give an

- (b) What do you mean by BCD code? Give an example.
- Implement X-NOR with the help of NAND gates only.

3

Contract of the second	the advantages of laserjet printer matrix printer?	. 3
(a) What are tape stora	the primary application of magnetic ge?	2
X /	es magnetic ink character reader ecognize the magnetic character?	
(c) What is fl	owchart? What are its limitation?	
(d) Write a fl integer.	owchart to find the reverse of an	+ 2 1 3
(e) What is the	ne use of virtual memory?	2
(a) State the	postulate of Boolean algebra.	4
(b) Determine tautology	ne if the following expression is or not:	s 4
()	$p \to q) \lor (q \to p)$	

GROUP - B

(c) Convert $(76.25)_8$ into binary.

Answer Q.No. 6 and any two from the rest

5.

6.	(a)	What are the functions of an operating system?	3
	(b)	What are the advantages of using cache memory?	2
	(c)	Differentiate between RAM and ROM.	3
	(<i>d</i>)	Explain the term EEPROM.	3
7.	(a)	What are the differences between MAN and WAN?	3
	(b)	Describe MESH topology.	3
	(c)	Write down the responsibilities of session and transport layers in ISO/OSI reference model.	
8.	(a)	What is computer Network? Why we use Network?	1958
	(b)	What are the types of modes available in Network? Explain any two. $1+2+$	- 2
	(c)	What is the basic difference between Internet and Intranet.	2

10	(d)	What is web browser?	1
9.	(a)	Write the utilities of the following DC commands:)S 5
	*	(i) CD (ii) DIR (iii) TREE (iv) REN (v) CLS.	
	(b)	Explain the term router and gateway.	2 + 2
	(c)	What do you mean by remote login.	3
10.	(i) (ii) (iii)	Bluetooth SMTP HTML	4 × 3
		Time Division Multiplexing(TDM)	
	(v)	WWW.	