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END SEMESTER EXAMINATION – 2021

Semester : 3rd

Subject Code : CO-301

**COMPUTER APPLICATION AND
PROGRAMMING**

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Instructions :

1. All questions of PART – A are compulsory.
2. Answer any five questions from PART – B.

PART – A

Marks – 25

1. Fill in the blanks : 1×5=5
 - (a) VLSI Technology had become base of _____
Generation Computer.
 - (b) _____ allocates memory and other resources
in a computer.

[Turn over



- (c) BCD stands for _____.
- (d) HTTP is one of the network _____.
- (e) In programming, repeating some statements is usually called _____.

2. Write down whether the following statements are true/false : 1×5=5

- (a) Pen Drive can be used both as input as well as output device.
- (b) ASCII codes are 16-bit.
- (c) Googlechrome is a search engine.
- (d) Trojan is one of the system softwares.
- (e) Stdio.h is a pre-processor directive.

3. Choose the correct option for the blank spaces : 1×5=5

- (i) A computer can't 'boot' if it does not have the _____ .
 - (a) Compiler
 - (b) Loader
 - (c) Operating System
 - (d) Assembler

(ii) Which of the following is not a computer language ?

(a) High-level language

(b) Machine language

(c) Low-level language

(d) Medium language

(iii) _____ MS-DOS Command is used to copy files from one location into another selectively.

(a) Copy

(b) Move

(c) Xcopy

(d) diskcopy

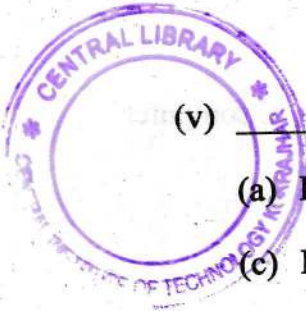
(iv) _____ is required for the Internet connection.

(a) Joystick

(b) Processor

(c) CD Drive

(d) NIC



(v) _____ topology has the highest reliability.

- (a) Ring
- (b) Mesh
- (c) Hybrid
- (d) Bus

4. Answer the following in one word/sentence each :
1×10=10

- (i) What are the components of a CPU ?
- (ii) What is i3 in a computer system ?
- (iii) Binary equivalent of 35_8 is _____.
- (iv) Name any secondary storage device.
- (v) Why a new hard disk is necessary to be formatted ?
- (vi) Find 2's compliment of 110101.
- (vii) Who is the father of modern computers ?
- (viii) What is the name of the main page/front page of a web site ?
- (ix) Name the function without which a C program cannot be compiled or executed ?
- (x) What is meant by library function ?

PART - B
Marks - 45



1. Differentiate between *any three* :

- (i) 1st Generation and 3rd Generation of Computers.
- (ii) System software and Application software.
- (iii) Browser and Search engine.
- (iv) Network Topology and Network Protocol.

2. Answer the following : 2+5+2=9

- (a) What do you mean by an Operating System ?
Give an example.
- (b) What are the major operations performed by an operating system ?
- (c) What would be the problem in a PC without any operating system ?

3. What is a Computer System ? Explain the different units of a computer system, drawing its neat and clean block diagram. 1+8=9

4. Perform the following : $4\frac{1}{2} \times 2 = 9$

(i) Add -13 and -9 using 1's compliment.

(ii) Subtract -17 from 27 using 2's compliment.

5. Write a C program to display the elements of an integer array of size N both in forward and backward order inputting any 10 integers first.

9

6. What do you mean by term Computer Network ? Compare different types of existing computer networks.

$2+7=9$

7. Write short notes on the following : (any three)

$3 \times 3 = 9$

(a) Computer Memory

(b) MS-DOS

(c) Pre-processor Directives

(d) Internet.

