## Total No. of printed pages = 6

#### **END SEMESTER EXAMINATION -- 2022**

Semester : 3rd (New)

Branch : Common

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 up the blanks :  $1 \times 10 = 10$ 
  - (a) Types of RAM are SRAM and
  - (b) Speed of \_\_\_\_\_ memory is almost similar to CPU.

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(c) Conversion specification for long int is

(d) The escape sequence\r is used for \_\_\_\_\_

(e) Name of the software application by which we can search internet document is \_\_\_\_\_.

- (f) Name of the software application by which we can visualise a web page is \_\_\_\_\_.
- (g) Compiler translates a \_\_\_\_\_ program into machine language.
- (h) number system has radix 8.
- (i) Using \_\_\_\_\_ command of MSDOS we can display content of a file.
- (j) The assignment operator is denoted by symbol.

2. Write true or false :  $1 \times 10 = 10$ 

- (a) C language is not case sensitive.
- (b) Computer can understand machine language as well as assembly language.

13/CO-301/CA&P(N) (2)

(c)	In Gray code two successive values differ in
	only one bit.

- (d) Gray code is also known as reflected binary code.
- (e) Pointer is a basic data types in C language.
- (f) RD command is used to rename a directory.
- (g) Vacuum tubes and valves were introduced during first generation of computer.
- (h) FTP stands for File Transfer Protocol.
- (i) MS-Office is an operating system.
- (j) EDIT is an external command of MS-DOS.
- 3. Choose the correct answers :  $1 \times 5 = 5$ 
  - (i) Which of the following is a single user Operating System ?
    - (a) UNIX (b) LINUX
    - (c) WINDOWS (d) None of these

(3)

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	*=		Series and Series
CENTRAL US	The MSDOS change the ty	comn ype of	nand which is used to a file is
il i l	(a) REN		(b) CD
TRAIL PERSON	(c) ATTRIB		(d) TYPE
(iii)	In a ring topo	ology	
na an taon Tha tao 1969	(a) Ring is for a linear t	ormed l opolog	by joining two ends of y
an dissident	(b) There exist	sts a co	entralized server
	(c) Each nod other nod	le is co es	onnected with all the
	(d) None of t	he abo	ve
(iv)	If $a = 5$ then $v$ b = + + a?	vhat wi	ll be the value of b if
005	(a) 6	estigad Professione	(b) 4
	(c) 5		(d) None of these
(v)	getch () belon	igs to a	the header file
	(a) stdio.		(b) conio.h
	(c) string.h		(d) None of these.
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## PART – B

# Marks – 45

ð –		
4.	(a)	Draw the computer block diagram and describe the main components of it. 5
	(b)	Describe the assembly and high level language. 4
5.	(a)	Convert the following numbers as directed :
		(i) 1101110.1011 <sub>(2)</sub> to decimal
		(ii) 231.45 <sub>(10)</sub> to binary
1		(iii) $347_{(8)}$ to binary. $2 \times 3 = 6$
	(b)	Find sum of $11011111_{(2)}$ and $101010111_{(2)}$ 2
	(c)	What is the 2's complement of $11010110_{(2)}$ ? 1
6.	(a)	Write a C language program to read age of 40 students in an array. Find how many of them have voting right ? 5
	(b)	Write a C program to display all the numbers between 1 and 500 which are divisible by both 3 and 7. 4
13	/CO-30	01/CA&P(N) (5) [Turn over

	(1.)	a dana a sa	-2=4			
	(b)	Describe the different types of com network based on coverage area.	puter 3			
	(c)	What do you mean by internal and ext commands of MS-DOS ?	ternal 2			
8.	(a)	Define the network devices – NIC and Sv	witch. 4			
	(b)	What is a protocol?	1			
	(c)	Describe the following terms in bries	f : <4=4			
a		(i) ISP, (ii) URL, (iii) WWW, (iv) H	ITTP.			
9.	Write short notes on any <i>three</i> : $3 \times 3 = 9$					
	(a)	Bus topology.				
	(b)	Unix operating system.				
	(c)	Relational operators in C.				
	(d)	Negative number representation.				
	(u)					
		301/CA&P (N) (6) 47	00(W			