

4008-3

Printed Pages : 4

Degree (Part-II) ( Vocational )  
Examination, 2020

( Honours )

BCA

[ PPU-D II(V) (H)-BCA-3 ]

Time : Three Hours]

[Maximum Marks : 75

Note : Candidates are requested to give their answers in their own words as far as practicable. The figure in the margin indicate full marks. Answer any five questions in all. All the questions are of equal value. Question No. 1 is compulsory

Write short notes on the following terms/keywords :

(a) Packet Switching

(b) Domain Name

(c) De' Morgan Theorem

(d) melloc( )

(e) Pre-processor

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( 1 )

[P.T.O.]

2

(a)

Discuss Mesh topology, Star topology, Bus topology, and Ring topology with diagrams.

(b)

What are the responsibilities of the Data link layer and Network layer in the OSI model ?

3

(a)

What is Wireless (unguided) transmission media ? What are the three major types of Wireless transmission media, describe each in detail.

(b)

What are the differences between a Circuit-switched network and a Packet-switched network ? <https://www.ppuonline.com>

(a)

What are the differences between Internet and Intranet ?

(b)

Describe Dial-up, Leased line, and VSAT techniques.

5

(a)

What is Boolean algebra ? Describe the basic rules and theorems.

(b)

How K-Map is used to minimize a Boolean algebra ? Describe with an example.

6

(a)

What does Array name signify ? How are Single and Double dimensioned Arrays initialized ?

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- (b) Differentiate between Call by value and Call by reference with a suitable example.
7. (a) Explain size of() operator with example.
- (b) Write your own function for the following operations, without using library functions :
- (i) Copy string
- (ii) Compare two strings
8. (a) What is the difference between Structure and Union in C language ? Explain by giving a suitable example.
- (b) Write a function (using pointer) that compares two integer arrays to see whether they are identical or not.
9. (a) Define a structure type "employee" that would contain employee name, joining\_date (structure within structure) and salary. Joining\_date is also a structure type that contains day, month and year. Using the employee structure, write a

program to read all the information for 10 employees from the keyboard and print the same on the screen.

(b) What do you understand by Looping ? Explain different types of Loop in C language.

(a) Write a C program using while loop to reverse the digits of a given number.

(b) Write output of the following code :

```
#include <stdio.h>
```

```
main()
```

```
int val = 3;
```

```
int *pval = &val;
```

```
printf ("%d%d%d", val, *ptr++, val++);
```

```
}
```

```
----- x -----
```