

**2021/TDC/CBCS/ODD/  
BVOCGE-102T/444**

**TDC (CBCS) Odd Semester Exam., 2021  
held in March, 2022**

**B.Voc (Information Technology)**

**( 1st Semester )**

**Course No. : BVOCGE-102T**

**( Fundamentals of Computer )**

Full Marks : 70

Pass Marks : 28

**Time : 3 hours**

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

**Answer four questions, selecting one from each Unit**

**UNIT—I**

1. (a) Explain briefly about data, information, information technology (IT) and information communication technology (ICT). Why is it regarded as ubiquitous technology in 21st century? Briefly mention few application areas. 4+4+1=9
- (b) Define computer in terms of functional block diagram of a computer system and explain about processor and primary memory functional block. 3+6=9

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2. Explain briefly the following :  $8+2+8=18$ 

- (a) Input devices and output devices with example
- (b) RAM is considered as volatile memory
- (c) Contribution of Alan M. Turing in reference to history of computing

## UNIT—II

3. (a) What is storage device? 1

(b) Write short notes on the following :  
 $2+3+2+2+2+2+3=16$

- (i) Floppy drive
- (ii) Hard disk
- (iii) Optical media
- (iv) CD-ROM
- (v) CD-RW
- (vi) DVD-ROM
- (vii) Recordable DVD

4. Define software. Explain briefly about application software and system software. Why do we need 'custom-made software'?  
 $2+12+3=17$

( 3 )

## UNIT—III

5. (a) What is data processing? How is data transformed into information?  $2+8=10$

- (b) Write short notes on the following :  $4+4=8$
- (i) Microprocessor
  - (ii) Extending the processor's power to other devices

6. (a) How do we represent a data in a computer? How many types of number system representation are there in computer? Mention all the types Explain only one-number system representation.  $1+1+2+6=10$

(b) Convert the given binary numbers into decimal :  $2+2=4$

- (i) 11100
- (ii) 10101

(c) Convert the given decimal numbers into binary :  $2+2=4$

- (i) 329
- (ii) 124

UNIT-IV

7. (a) What do you mean by World Wide Web (WWW)? What are the purposes of using WWW? 2+5=7
- (b) What is electronic mail (e-mail)? Write the advantages and disadvantages of e-mail. 2+8=10
8. (a) What are the differences between flowchart and algorithm? 7
- (b) Write an algorithm and draw the flowchart to find out the largest of three numbers. 10

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