

B.Sc. (Part-I) Semester—I Examination
COMPUTER APPLICATIONS (Vocational)
(Fundamentals of Computer Applications)

Time : Three Hours]

[Maximum Marks :80

N.B. :— (1) **ALL** questions are compulsory.

(2) Question No. 1 carries 8 marks and all other questions carry 12 marks each.

(3) Assume suitable data wherever necessary.

1. (A) Fill in the blanks :

2

(i) 2 Byte = _____ Bit.

(ii) _____ is act as an interface between a user and the hardware.

(iii) _____ is known as temporary memory.

(iv) URL stands for _____.

(B) Choose correct alternative and rewrite the following :

2

(i) A digit in the Binary Number System is known as _____.

(a) Compiler (b) Byte (c) Bit (d) MB

(ii) A protocol that is used for upload the data is _____.

(a) TCP (b) FTP (c) SMTP (d) E-mail

(iii) _____ is the base of octal number system.

(a) 16 (b) 2 (c) 8 (d) 10

(iv) _____ is a valid keyword in the 'C' Language.

(a) sign (b) begin (c) for (d) opera

- (C) Answer the following in one sentence : 4
- (i) What is STACK ?
 - (ii) What is booting ?
 - (iii) What is computer memory ?
 - (iv) What is an identifier ?
2. (A) Explain the following terms : 6
- (i) ROM (ii) EPROM (iii)EEPROM
- (B) Explain Mini and Super Computer with its characteristic. 6
- OR**
3. (A) Explain impact and non-impact printers with examples. 6
- (B) Explain the following terms:
- (i) Cache Memory (ii) Modem 6
4. (A) Perform the following conversion : 6
- (i) $(120)_{10} = (?)_8$ (ii) $(CA)_H = (?)_2$ (iii) $(010101)_2 = (?)_{10}$
- (B) Explain Decimal and Binary Number System with examples. 6
- OR**
5. (A) What is operating system ? Explain its types and functions. 6
- (B) Explain in Windows XP, DESKTOP and ICONS. 6
6. (A) What is internet ? Explain broadband internet connection. 6
- (B) What is web browser ? Explain Internet explorer browser. 6
- OR**
7. (A) What is e-mail ? Explain the process of sending an e-mail. 6
- (B) Explain the following terms :
- (i) IPV 4 protocol (ii) Wi-Fi. 6

8. (A) What is algorithm ? Write an algorithm for finding the sum of first n numbers. 6
(B) Explain the following terms :
(i) Program design (ii) Program testing (iii) Coding. 6

OR

9. (A) What is flow-chart ? Draw a flow-chart to find the greatest number among the three numbers. 6
(B) What is Sorting ? Explain bubble sort. 6
10. (A) Explain the history of C. 6
(B) Explain arithmetic and assignment operators with example. 6

OR

11. (A) Explain the structure of 'C' Program. 6
(B) Explain the following terms :
(i) Symbolic constant (ii) Typedef (iii) Type conversion. 6
12. (A) Explain the following with syntax and example :
(i) Scanf () (ii) Printf () 6
(B) What is looping ? Explain while loop, and compare it with do-while loop. 6

OR

13. (A) Explain Break and Continue statement with example. 6
(B) Write a programme to print given pattern using nested loop : 6

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

