

B.Sc. (Part—I) Semester—I Examination
1S : COMPUTER APPLICATIONS (Voc.) (Upto Winter-2018)
(Fundamentals of Computer Applications)

Time : Three Hours]

[Maximum Marks : 80

Note :—(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 :

(i) _____ acts as an interface between a user and the hardware.

(ii) Digramatical representation of an algorithm is called as _____.

(iii) 16 Bit = _____ bytes.

(iv) _____ is known as Temporary Memory.

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(B) Choose the correct alternative and rewrite the following :

(i) A digit in the binary number system is known as _____.

(a) Compiler

(b) Byte

(c) Bit

(d) KB

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

(a) TCP

(b) FTP

(c) SMTP

(d) E-mail

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

(a) 16

(b) 10

(c) 8

(d) 2

(iv) _____ is not a keyword in the 'C' language.

(a) sign

(b) if

(c) int

(d) enum

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(C) Answer in **one** sentence each :

(i) What is Operating System ?

(ii) What is Keyword ?

(iii) What is Queue ?

(iv) What is Looping ?

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2. (A) What is Computer ? Explain block diagram of computer.

6

(B) Explain the following terms :

(i) RAM

(ii) ROM

(iii) EPROM.

6

OR

3. (A) Explain following Devices :
- (i) Keyboard
 - (ii) Mouse
 - (iii) Scanner. 6
- (B) Explain the following :
- (i) VDV
 - (ii) LCD
 - (iii) TFT. 6
4. (A) Explain the following Number System with example :
- (i) Binary
 - (ii) Octal
 - (iii) Decimal. 6
- (B) Perform the following conversions :
- (i) $(120)_{10} = (?)_8$
 - (ii) $(CA)_{16} = (?)_2$
 - (iii) $(010101)_2 = (?)_{10}$. 6

OR

5. (A) Explain File and Process Management. 6
- (B) (i) Explain the Booting Process of Computer.
- (ii) How to customise the Desktop ? Explain it. 6
6. (A) What is Internet ? Explain dial up and direct access internet connection. 6
- (B) What is web browser ? Explain Opera browser. 6

OR

7. (A) Explain the following terms :
- (i) URL
 - (ii) Domain
 - (iii) Search Engine. 6
- (B) Explain the following :
- (i) FTP
 - (ii) IPV6
 - (iii) Wi-Fi. 6
8. (A) What is an algorithm ? Write an algorithm to find the greatest number among given three numbers. 6
- (B) Explain the following :
- (i) Compiler
 - (ii) Programme design
 - (iii) Programme coding. 6

OR

9. (A) What is Flowchart ? Explain with different notation used to draw a flowchart. 6
(B) Explain the following terms with example :
(i) Stack
(ii) Queue. 6
10. (A) Explain the structure of 'C' program. 6
(B) Explain the identifiers, constants and variables with example. 6

OR

11. (A) Explain the following operators :
(i) Arithmetic
(ii) Relational
(iii) Logical. 6
(B) Explain increment and decrement operators and symbolic constant with suitable example. 6
12. (A) Explain the following statements with syntax and example :
(i) printf ()
(ii) scanf (). 6
(B) What is Looping ? Explain Do-While statement with syntax and example. 6

OR

13. (A) Write a program to calculate the given equation :

$$Z = \frac{b^2 - \sqrt{b^2 - 4ac}}{2a}$$

6

- (B) Explain switch case statement with suitable example. 6

