AS–1358

B.Sc. (Part-I) Semester—I Examination

COMPUTER SCI. / COMPUTER APPLI. / INFORMATION TECH.–I

(Computer Fundamentals and C Programming)

Time : Three Hours]   [Maximum Marks :80

N.B. :— (1) **ALL** questions carry equal marks.

(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) FAT stands for _____.

   (ii) The keyword _____ used to explicitly define new names for data types.

   (iii) TCP / IP means _____.

   (iv) _____ is the mandatory function of any C programs.   2

   (B) (i) _____ is not the integer type constant in C.

       (a) Decimal   (b) Binary

       (c) Octal   (d) Hexadecimal

   (ii) The program written in high level language is known as _____.

       (a) Object code   (b) Binary code

       (c) Source code   (d) ASCII code

   (iii) _____ is not an assignment operator.

       (a) +=   (b) %=

       (c) = =   (d) /=

(iv) If a = 13 and b = 3 then the statement c = (a <= (b*3)) ? a%b : a/b; will assign _____ value to c.

(a) 1 (b) 3

(c) 4 (d) 9 2

(C) Answer the following in **one** sentence :
(i) What is booting ?
(ii) What is operator ?
(iii) What is an identifier ?
(iv) What is keyword in C ? 4

2. (A) Explain the classification of computer. 6
(B) Explain the working of the following devices :
(i) Mouse (ii) Scanner. 6

OR

3. (A) What is computer memory ? Explain RAM and ROM. 6
(B) Explain the following :
(i) Inkjet printer (ii) Dot matrix printer 6

4. (A) Explain the Directory structure and FAT in DOS. 6
(B) What is number system ? Explain binary, octal and hexadecimal number system. 6

OR

5. (A) What do you mean by Windows Explorer ? Explain it. 6
(B) Explain the following :
(i) Auto exec.Bat (ii) Config.sys (iii) XCOPY 6

6. (A) What is Internet Protocol ? Explain HTTP protocol. 6
(B) What is web browser ? Explain Internet Explorer. 6

OR

7. (A) What do you mean by domain name and e-mail address ? Explain the process of sending e-mail. 6
(B) Explain the following :
(i) Netscape Navigator (ii) Search engin 6

8. (A) What is algorithm ? Write an algorithm to find the sum of first n odd numbers. 6

   (B) Distinguish the following :

   (i) Compiler and Interpreter.

   (ii) Testing and Debugging. 6

OR

9. (A) What is flow-chart ? Draw a flow-chart to calculate the roots of the quadratic equation ax^2+bx+c. 6

   (B) What is low level language ? Compare it with high level language. 6

10. (A) What is constant ? Explain floating constant, char constant and string constant. 6

    (B) Explain the structure of C program. 6

OR

11. (A) Explain arithmetic, increment and decrement operators with suitable example. 6

    (B) Explain the following :

    (i) Char (ii) Float (iii) Double 6

12. (A) Write a program to find the smallest number among the given three numbers using nested if structure. 6

    (B) Explain switch statement with syntax and example. 6

OR

13. (A) What is looping ? Explain the execution of for loop with suitable example. 6

    (B) Explain the following statements with example :

    (i) Break

    (ii) Continue

    (iii) Go to 6