

13. (a) Explain conditional operator with suitable example.

6

(b) Explain switch statement with suitable example.

6

AP-404

B.Sc. Part—I (Semester—I) Examination

1S : COMPUTER SCIENCE/COMPUTER APPLICATIONS/ INFORMATION TECHNOLOGY—I

(Computer Fundamentals and 'C' Programming)

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) Assume suitable data wherever necessary.

1. (a) Fill in the blanks :

2

(i) _____ command is used to see the contents of the file.

(ii) ASCII stands for _____.

(iii) _____ statement is used to terminate loops or to exit from a switch.

(iv) DMP stands for _____.

(b) Choose correct alternative :

2

(i) The following operator is used to get remainder after integer division :

(a) & &

(b) /

- (c) ++
- (d) %
- (ii) Which of the following is not an assignment operator ?
- (a) +=
- (b) *=
- (c) %=
- (d) !=
- (iii) Which of the following is a unary operator ?
- (a) ==
- (b) & &
- (c) --
- (d) +=
- (iv) An algorithm is best described as :
- (a) a branch of mathematics
- (b) computer language
- (c) a step by step procedure for solving problem
- (d) none of the above.

- (b) What is computer program ? Explain machine level language with its advantages and disadvantages. 6
10. (a) Explain basic data types in 'C' with suitable example. 6
- (b) Explain the following terms with suitable example :
- (i) Symbolic constant
- (ii) Integer constant
- (iii) String constant. 6

OR

11. (a) Explain typedef statement to create user defined data types with example. 3
- (b) Explain the use of header file in program. 3
- (c) Explain the structure of 'C' program. 6
12. (a) Explain the following functions with example :
- (i) printf ()
- (ii) scanf (). 6
- (b) Write a program in 'C' to generate first n odd numbers. 6

OR

(c) Answer the following in **one** sentence : 4

(i) What is Keyword ?

(ii) What is Interpreter ?

(iii) What do you mean by secondary memory ?

(iv) What is an identifier ?

2. (a) Draw and explain the block diagram of computer. 6

(b) What is memory ? Explain RAM memory and ROM family. 6

OR

3. (a) What is computer ? Explain classification of computers. 6

(b) What is printer ? Explain the working of non-impact printer. 6

4. (a) What is operating system ? Explain the DOS directory structure. 6

(b) Convert the following :

$$(101011)_2 = ()_{10}$$

$$(77)_{10} = ()_8$$

$$(5 AB)_H = ()_{10} \quad 6$$

OR

5. (a) Explain the following :
(i) Batch operating system
(ii) Multiprogramming operating system. 6
(b) Explain windows O.S. in brief and state its features. 6
6. (a) What is Internet ? Explain dial up and direct Internet Connection. 6
(b) What is WWW ? Explain any one web browser. 6

OR

7. (a) Explain the application of Internet. 6
(b) What is protocol ? Explain TCP/IP and domain name system. 6
8. (a) What is structured programming ? Explain the different approaches of structured programming. 6
(b) What is algorithm ? Write an algorithm to test if the given number is even or odd. 6

OR

9. (a) What is flow-chart ? Explain various symbols used in flow-charting. 6