

First Semester B. Sc. (Part - I) Examination

**1 S : COMPUTER SCIENCE / COMPUTER  
APPLICATIONS / INFORMATION  
TECHNOLOGY - I**

( Computer Fundamentals and 'C' Programming )

P. Pages : 7

Time : Three Hours ]

[Max. Marks : 80

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- Note :** (1) All questions are compulsory.  
(2) Assume suitable data wherever necessary.

1. (a) Fill in the blanks :—

(i) The translation of our logic, statement by statement in the programming instructions for any programming language is known as \_\_\_\_\_.

(ii) FAT stands for \_\_\_\_\_.

(iii) \_\_\_\_\_ statement is used to bypass the remainder of the current pass through a loop.

(iv) HTTP stands for \_\_\_\_\_.

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(b) Choose the correct alternatives :—

(i) Which of the following is an external command :

- (a) COPY
- (b) COPYCON
- (c) XCOPY
- (d) CD

(ii) If  $i=8$ ,  $j=15$  and  $k=4$ , what is the value of  $2*((i\%5)*(4+(j-3)/(k+2)))$

- (a) 18
- (b) 26
- (c) 28
- (d) 36

(iii) Which of the following is not a valid identifier :

- (a) larea
- (b) \_area
- (c) ar\_ea
- (d) area\_

(iv) The errors that can be pointed out by the compiler are

- (a) Logical error

**OR**

13. (a) Explain for loop with example. 6

(b) Explain with suitable example :—

(i) getch( ).

(ii) getchar( ).

(iii) gets( ). 6



10. (a) Explain the features of 'C' Language. 6
- (b) Explain the following operators with example :—
- (i) Increment and Decrement operators.
- (ii) Assignment operators.
- (iii) Logical operators. 6

**OR**

11. (a) Explain the following terms :—
- (i) Keywords.
- (ii) Identifiers.
- (iii) Header file. 6
- (b) Explain with example arithmetic operators and state its precedence. 6
12. (a) Explain do ..... while control structure and compare it with while structure. 6
- (b) Write a program in 'C' to calculate the sum of first n even numbers. 6

- (b) Semantic error
- (c) Syntax error
- (d) None of the above. 2
- (c) Answer in one sentence :—
- (i) What is an expression ?
- (ii) What is operating system ?
- (iii) What is constant ?
- (iv) What do you mean by Assembler ? 4

2. (a) What is Computer ? Explain the characteristics of Computer. 6
- (b) What is Memory ? Explain the types of Memories. 6

**OR**

3. (a) Explain the working of following devices :
- (i) Mouse.
- (ii) Scanner. 6
- (b) Explain the concept of primary and secondary memory. 6

4. (a) State the differences between DOS and windows operating system. 6
- (b) Explain the following :—
- (i) AUTOEXEC.BAT.
- (ii) COPYCON. 6

**OR**

5. (a) What is booting ? Explain warm and cold booting. 6
- (b) Convert the following :—
- $(81)_{10} = ( )_2$
- $(401)_8 = ( )_{10}$
- $(270)_{10} = ( )_{16}$  6

6. (a) What is Internet ? State and explain the applications of Internet. 6
- (b) What is protocol ? Explain TCP/IP and FTP protocol. 6

**OR**

7. (a) What is e-mail ? Write procedure for creating e-mail address. 6

- (b) Explain the following terms :—

- (i) Search engines.
- (ii) Netscape navigator. 6

8. (a) State the different programming languages and explain any one of them. 6

- (b) Explain the following terms :

- (i) Program design.
- (ii) Coding.
- (iii) Program testing. 6

**OR**

9. (a) Define flow-chart. Draw a flow-chart to find the roots of a quadratic equation. 6

- (b) Explain the following terms :—

- (i) Compiler.
- (ii) Interpreter.
- (iii) Assembler. 6