

AT – 280

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

(New)

**COMPUTER SCIENCE / COMPUTER APPL. /**

**I. T. – I**

(1S : Fundamentals of Information Technology and  
C–Programming)

P. Pages : 7

Time : Three Hours ]

[ Max. Marks : 80

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1. (A) Fill in the blanks :—

(i) RAM is ——— type of memory.

(ii) Scanf ( ) is ——— input statement.

(iii) While is also called as ——— loop  
statement.

(iv) WWW stands for ——— . 2

(B) Choose the correct alternative :—

(i) 1 GB = —

(a) 1024 Bytes

AT–280

P.T.O.

- (b) 1204 bits
  - (c) 1024 MB
  - (d) 1024 KB.
- (ii) do\_while loop is called —
- (a) Entry control loop
  - (b) Exit control loop
  - (c) Both (a) and (b)
  - (d) None of these.
- (iii) Vacuum tubes used in — generations.
- (a) First
  - (b) Second
  - (c) Third
  - (d) Fourth.
- (iv) GOTO is — statement
- (a) Looping
  - (b) Branching

(c) Jumping

(d) None of these. 2

(C) Answer the following in **One** sentence :—

(i) What is Assembler ?

(ii) What is LAN ?

(iii) What is the use of break statement ?

(iv) Which are relational operators in C ? 4

2. (A) Explain the block diagram of computer with its functional units. 6

(B) Explain the types of computer memories. 6

**OR**

3. (A) What are peripheral devices ? Describe any two devices. 6

(B) Explain the classification of computers. 6

4. (A) Describe the term Operating System with differences between single user and multi – user operating system. 6
- (B) Explain the different file types with file attributes. 6

**OR**

5. (A) Explain the need of an Operating System with its various functions. 6
- (B) Explain the terms :--
- (i) Windows
- (ii) Unix. 6
6. (A) Explain the terms :--
- (i) LAN
- (ii) WAN
- (iii) MAN 6
- (B) What is DOMAIN and URL ? Explain. 6

**OR**

7. (A) How to search the data on Internet ? Explain. 6
- (B) What is Topology ? Explain Bus and STAR topology. 6
8. (A) What is an Algorithm ? Why is it required in programming process ? Explain with an example. 6
- (B) Explain the following terms :—
- (i) Keywords.
- (ii) Identifiers. 6

**OR**

9. (A) What is High Level Language ? Explain the differences of it with Low level languages. 6
- (B) Explain the terms :—
- (i) Coding.
- (ii) Debugging. 6

10. (A) What is operator precedence ? Explain with an arithmetic expression. 6
- (B) Explain the primary and derived data types used in programming. 6

**OR**

11. (A) Explain how to define a variable in C. What are the rules for naming variables ? 6
- (B) Explain the storage classes of C :—
- (i) auto
  - (ii) register
  - (iii) static. 6
12. (A) Explain the unformatted I/O statements of C. 6
- (B) Write a program to convert the temperature from Farenheit to Celsius and vice versa using formula  
Celsius = (Farenheit - 32) / 1.8 6

**OR**

13. (A) Explain the while and do – while loops used in C with suitable example. 6

(B) Write a program in C to find the sum of N natural numbers :—

$$y = 1 + 2 + 3 + 4 + \dots + N. \quad 6$$



