

Reg. No. :

5050

**Q.P. Code : [11 SC 01/11 CA 01/
11 IT 01/11 CTG 01/
11 SS 01/11 MM 01/
19 HSN 01/20 BSA 01]**

(For the candidates admitted from 2011 onwards)

B.Sc. DEGREE EXAMINATION, MARCH 2021.

First Semester

**Part III — Computer Science/Computer Science and
Application/Information Technology/Computer
Technology/Software System/Multimedia and Web
Technology/Hardware system and Networking/
Computer Science and Applications**

**COMPUTING FUNDAMENTALS AND C
PROGRAMMING**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. The devices that used to give single or multiple colored images and drawings are _____.
(a) Monitors (b) Printers
(c) Plotters (d) VDU

2. Which of the following is used in main memory?
(a) SRAM (b) DRAM
(c) PRAM (d) DDR
3. When double is converted to float, then the value is _____.
(a) Truncated
(b) Rounded
(c) Depends on the compiler
(d) Depends on the standard
4. Which of the following operator has the highest precedence in the following?
(a) () (b) sizeof
(c) * (d) +
5. Which keyword is used to come out of a loop only for that iteration?
(a) Break (b) continue
(c) exit (d) return
6. The library function used to find the last occurrence of a character in a string is _____.
(a) stchar() (b) strrchr()
(c) strchr() (d) char()

7. The keyword used to transfer control from a function back to the calling function is ———.
- (a) Switch (b) Goto
(c) Go back (d) Return
8. How will you free the allocated memory?
- (a) remove(var-name);
(b) free(var-name);
(c) delete(var-name);
(d) dalloc(var-name);
9. What is (void*)0?
- (a) Representation of null pointer
(b) Representation of void pointer
(c) Error
(d) None of the above
10. “&” is called as ——— in pointer concept.
- (a) Logical operator
(b) Address operator
(c) Conditional operator
(d) Bit wise operator

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Briefly explain about classification of computers.

Or

- (b) Differentiate RAM and ROM.

12. (a) Explain about various categories of constants.

Or

- (b) What are keywords? Give an example.

13. (a) Write down the importance of Switch statement.

Or

- (b) Write a C program to find the area and circumference of a circle with radius r .

14. (a) Discuss on the concept of Recursion with suitable example.

Or

- (b) What is the difference between user defined function and library function.

15. (a) What is function returning pointer?

Or

- (b) What are pointers? When and why they are used?

SECTION C — ($5 \times 8 = 40$ marks)

Answer ALL questions.

16. (a) Explain about the Generations of computers in briefly.

Or

- (b) Describe about the various language translation and explain their functions.

17. (a) What do you mean by variables? How to declare variables in C?

Or

- (b) Explain about the precedence of arithmetic operators in briefly.

18. (a) With an example, Briefly explain if and if---else statements.

Or

- (b) Compare and contrast between while and do-while loops in C.

19. (a) Explain about the different categories of functions.

Or

- (b) What is structure? Differentiate between Structures and Unions.

20. (a) How to access a variable through its pointer? Explain.

Or

- (b) How to pass pointers to a function in C with an example.
