



**DDA-003-2011010**

Seat No. \_\_\_\_\_

**B. Sc. (Sem. I) Examination**

**August - 2022**

**CA-101 : Programming Fundamentals &  
Programming in C  
(New Course)**

**Faculty Code : 003**

**Subject Code : 2011010**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : **70**

- 1 (a) Answer the following questions : **4**
- (1)  $445_{(8)} = \underline{\hspace{2cm}}$   $_{(16)}$
  - (2) What is full form of ASCII ?
  - (3) RAM is  $\underline{\hspace{2cm}}$  memory.
  - (4)  $91_{(10)} = \underline{\hspace{2cm}}$   $_{(2)}$
- (b) Answer the following questions : (any **one**) **2**
- (1)  $775_{(8)} = \underline{\hspace{2cm}}$   $_{(16)}$
  - (2) List out types of numbering system with their base.
- (c) Answer the following questions : (any **one**) **3**
- (1) Discuss classification of computer by processing capabilities.
  - (2) List out types of codes.
- (d) Answer the following questions : (any **one**) **5**
- (1) Explain all characteristics of computer.
  - (2) Write a short note on generations of computer.
- 2 (a) Answer the following questions : **4**
- (1) CDMA stands for  $\underline{\hspace{2cm}}$ .
  - (2) Bluetooth can connect upto “eight devices” simultaneously. True or False ?
  - (3) What is drive ?
  - (4) IaaS stands for  $\underline{\hspace{2cm}}$ .

- (b) Answer the following questions : (any **one**) **2**
- (1) Differentiate Menu and Popup Menu.
  - (2) Define Virus.
- (c) Answer the following questions : (any **one**) **3**
- (1) Define any three computer peripheral speed measurements.
  - (2) Differentiate Compiler and Interpreter.
- (d) Answer the following questions : (any **one**) **5**
- (1) Write a short note on GIS.
  - (2) Write a short note on Backup and Restore.
- 3** (a) Answer the following questions : **4**
- (1) Integer data type occupies \_\_\_\_\_ bytes.
  - (2) What is NULL ?
  - (3) Which format specifier is used to long int data type?
  - (4) C language is low level language. True or False ?
- (b) Answer the following questions : (any **one**) **2**
- (1) What is Keyboard ?
  - (2) Explain different ways to write comments.
- (c) Answer the following questions : (any **one**) **3**
- (1) What is flowchart ? List out symbols with their use.
  - (2) Explain low level languages.
- (d) Answer the following questions : (any **one**) **5**
- (1) Write a short note on programming languages.
  - (2) Explain all data types available in C with its storage and range.

- 4 (a) Answer the following questions : 4
- (1) isuper() library function is defined in string.h file. True or False ?
  - (2) \_\_\_\_\_ keyboard is used to terminate the loop.
  - (3) for and \_\_\_\_\_ both are entry control loop.
  - (4) break is used in \_\_\_\_\_ decision making statement.
- (b) Answer the following questions : (any **one**) 2
- (1) Explain sqrt().
  - (2) What is loop ? Explain nested loop.
- (c) Answer the following questions : (any **one**) 3
- (1) Explain any three library functions of ctype.h.
  - (2) Write a program to display sum of digits of the given number.
- (d) Answer the following questions : (any **one**) 5
- (1) Write a program to display all numbers other than multiples of 5 inue.
  - (2) Write a short note on loops.
- 5 (a) Answer the following questions : 4
- (1) Any type of pointer occupies 4 bytes of memory. True or False ?
  - (2) Subscript for array starts with \_\_\_\_\_.
  - (3) UDF stands for \_\_\_\_\_.
  - (4) `int a[10] = {7, 8, 9, 10, 11, 12, 13, 14, 15, 16};` - is a valid declaration. True or False ?
- (b) Answer the following questions : (any **one**) 2
- (1) Explain use of structure.
  - (2) What is two dimensional array ?

(c) Answer the following questions : (any **one**) **3**

- (1) Write a program to generate factorial value of the given using recursion.
- (2) Explain different methods for declaring and initializing array.

(d) Answer the following questions : (any **one**) **5**

- (1) Write a short note on structure.
  - (2) Write a short note on pointer.
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