### **CB**

# TILAK MAHARASHTRA VIDYAPEETH, PUNE BACHELOR OF COMPUTER APPLICATIONS (B.C.A.) SPECIALIZATION IN CYBER SECURITY (CS)

## EXAMINATION : JUNE - 2022

**SEMESTER - I** 

**Sub:** C Programming (BCA-145/BCA –141-18/BCA-141-20/BCA-CS-141-20)

Date: 21/06/2022 Total Marks: 60 Time: 10.00 am to 12.30 pm

#### Instructions:

- 1. All questions are compulsory unless and otherwise stated.
- 2. Bold figures to the right of every question are the maximum marks for that question.
- 3. Candidates are advised to attempt questions in order.
- 4. Answers written illegibly are likely to be marked zero.
- 5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
- 6. Draw neat and labelled diagrams wherever necessary.

#### Q.1. Fill in the blanks.

**(5)** 

- 1. Which of the following is not a reserved keyword in C
  - a) Auto

b) case

c) default

- d) Main
- 2. An array Index starts with ...
  - a) 0

b) -1

c) 1

- d) 2
- 3. Who is a father of c Language?
  - a) Bjarne Stroustrup

b) James A. Gosling

c) Dennis Ritchie

- d) Dr. E.F. Codd
- 4. Prototype of a function means
  - a) Name of function

b) Input of function

c) output of function

- d) Declaration of function
- 5. What is the correct value operating system returns on successful compilation of program
  - a) 1

b) -1

c) 0

d) Program do not return value

#### Q.2. State True/False.

**(5)** 

- 1. Spaces and commas are allowed in a variable name
- 2. Only integers are allowed in Switch case statement
- 3. #define is known as preprocessor compiler directive
- 4. A file opened for writing already exists its contents would be overwritten
- 5. Structure is collection of dissimilar data types

#### Q.3. Answer the following. (Solve any 5)

(10)

- 1. What is the use of break Statement?
- 2. What is nested if? Give out an example for it.
- 3. What is string in C?
- 4. What is flowchart? How it is different from algorithm?
- 5. What is pointer in C?
- 6. Why do we use header files?

#### Q. 4. Answer the following in detail. (Solve any 6)

(30)

- 1. Write the different file opening modes in C?
- 2. Explain else-if ladder with example.
- 3. What is function? Differentiate between built-in function and user defined function.
- 4. Write a program to generate Fibonacci series.
- 5. What is flowchart? Explain different symbols used for flowchart.
- 6. Define Structure and write the general syntax for declaring and accessing members
- 7. Write short note on symbolic constants.

#### Q. 5. Answer the following in detail. (Solve any 1)

(10)

- 1. Explain the following string handling functions with example:
  - a. strcpy() b. strcmp() c. strcat() d.strlen() e. strncat()
- 2. Write and explain about switch statement.

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