DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Regular Semester Examination – Summer 2022

Course: B. Tech.

Branch: First Year(Group A)

Semester: II

Subject Code & Name: BTES204 & Computer Programing in C

Max Marks: 60

Date: 26-08-2022

Duration: 3.45 Hrs.

Instructions to the Students:

- All the questions are compulsory.
- 2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in () in front of the question.
- Assume suitable data wherever necessary and mention it clearly.

(Level)

Marks.

Q. 1 Solve any two from the following

A) Define Error? Enlist and Explain various types of error in C Programming

(Understand) 6

B) Define operator? What is Criteria for operator classification? Explain ternary operator with suitable example.

(Understand)

C) Define flowchart? draw a flowchart for following algorithm

Synthesis)

1. Start

- 2. Read the values for B(base) & H (height)
- 3. Calculate area = 1/2 *B*H
- 4. Display area
- 5. Stop

Q.2 Solve any two from the following

What will be output of the following program segment in C and choose the correct option:

(Application)

```
int a = -1, b = 1, c, d = 2;
c = a + + + + + + + + - - d;
printf("a=\%db=\%dc=\%dd=\%d", c,a,b,d);
```

a)
$$a=0$$
 $b=1$ $c=1$ $d=1$ b) $a=-1$ $b=0$ $c=1$ $d=1$ c) $a=0$ $b=0$ $c=2$ $d=1$ d) $a=0$ $b=2$ $c=0$ $d=1$

int main()

```
char x='X';
char a = ++x + 1;
printf("%d",a);
```

(b) 90 Z (c) error

#include <stdio.h>

```
int a=-2;
                  printf("Hi this is CPC");
                  else
                  printf("C is Programming language");
      a) Hi this is CPC' b) error c) C is Programming language d) None
                                                                          (Understand)
     Define variable? Define constant? Give the difference between
      variable & constant with suitable example.
                                                                         Synthesis)
     Write a Program to a read a number & display its reverse using
      while loop.
Q. 3 Solve any two from the following
                                                                         Synthesis)
 A) write a program to accept two numbers & compute quotient and
     remainder display the same.
 B) Define function? explain function signature with suitable example.
                                                                          Understand)
       Hint: function signature is also called as function prototype)
                                                                         (Understand) 6
     Explain the following with proper example
      i) extern variable ii) Static variable
                                            iii) size qualifier
Q.4 Solve any two from the following
                                                                         (Synthesis)
 A) Define string? Write a program to copy first 16 characters from
     "Cpc is very easy programming language" into string abc.
       Hint: consider "Cpc is very easy programming language" as a
     string with valid name}
 B) Define Array? Define one subscripted variable? explain Dynamic
                                                                         Analysis)
     initialization of one subscripted variable with suitable program
      Hint: one subscripted variable is also known as I dimensional
     attay }
     why one should use goto statement in a c programming?
                                                                           Synthesis)
     Explain with suitable program.
Q.5 Solve any two from the following
 A) Define Structure? Explain how one should access structure fields
                                                                        (Understand)
     explain with suitable program.
     write a program to display following pattern
                                                                        (Application)
      * * * *
     Define union? How memory is allocated for union and structure
                                                                         Analysis
     in C Programming with suitable example.
```

int main()

*** End ***