



**WEST BENGAL STATE UNIVERSITY**  
B.A./B.Sc. Honours 1st Semester Examination, 2020, held in 2021

**CMAACOR01T-COMPUTER APPLICATION (CC1)**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.  
All symbols are of usual significance.*

**Answer Question No. 1 and any *four* questions from the rest**

1. Answer any *four* questions from the following: 2×4 = 8
- What do you mean by Dangling Pointer Variable in C Programming?
  - Differentiate between Actual Parameters and Formal Parameters.
  - What is Preprocessor Directive?
  - Differentiate between getch() and getche().
  - What do you mean by Memory Leak?
  - What is spaghetti programming?
  - What are enumerated types?
  - What is gets() function?
2. (a) Explain Local Static Variables, mentioning their use. 4
- (b) What is the difference between declaring a header file with < > and “ ” ? 4
3. (a) Which statement is efficient and why?  $x = x + 1;$  or  $x++;$  ? 4
- (b) Consider the following segment of code: 4
- ```
i = 5;
printf(“%d %d %d”, ++i, i, i++);
```
- Properly explain what will be the output.
4. (a) Write a program to swap two numbers without using the third variable. 5
- (b) How can you print a string with the symbol % in it? For example, to print “Shyam has secured 90% in mathematics”. 3

5. (a) What are the limitations of scanf() and how can it be avoided? 4  
(b) Differentiate between the macros and the functions. 4

6. (a) Differentiate Source Codes from Object Codes. 4  
(b) What are logical errors and how does it differ from syntax errors? 4

7. (a) Write a C Program to print Pascal's triangle. 6

```
          1
        1  1
       1  2  1
      1  3  3  1
```

(Number of lines  $n$  is fed by the user)

- (b) What does the format %10.2 mean when included in a printf statement? 2
8. (a) What is output redirection? 4  
(b) With an example differentiate between functions abs() and fabs(). 4

**N.B. :** *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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