

**PC- 482**  
**(514) M.A./M.Sc. MATHAEMATICS (FOURTH SEMESTER)**  
**Semester Examination June-2020**  
**Compulsory/Optional**  
**Group -**  
**Paper -.....**

**Name/Title of Paper – Programming in ‘C’ with ANSI Features -II**

Time : Three Hours]

[Maximum Marks : 80  
[Minimum Passing Marks : ...

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note : Answer from both the section as directed. The figures in the right-hand margin indicate marks.

**SECTION-A**

**1. Answer the following:**

**2×10 = 20**

- (a) Any name given to any variable function are also a .....
- (b) Which concept/keyword can be used to implement the loop with using and loop statement ?
- (c) What does the malloc function return and why ?
- (d) Why we include stdio.h header file ?
- (e) What is the similarity between array and pointer ?
- (f) What is the default values of static variable ?
- (g) When we should use # define directories.
- (h) When we should use macro instead of function ?
- (i) Which is the base class for streaming ?
- (j) What the file open( ) function return ?

**SECTION-B**

- 2.** Write a simple program to calculate and display the same of two matrix ( $M \times N$ ) and stored at in another matrix of  $M \times N$  size using only one 3-dimensional array.

**OR**

What is the need of extern storage class ? Write a simple program that can access extern variable declared ? Define in other file or program.

- 3.** Write a simple program to demonstrate the use of passing pointer as an argument into a function.

**OR**

Write a simple program that can take N number from keyword band then display these number in descending order.

- 4.** Write a simple program to demonstrate the use of calloc & realloc in a single program.

**OR**

What do you understand by enum ? When we should use it ? Write a simple program to demonstrate its use.

- 5.** What do you understand by conditioned completion? Write a simple program to demonstrate its use.

**OR**

Write a simple program to demonstrate the difference between structure and union.

- 6.** Write a simple program that can read input from keyboard and store it in a file named "sample.txt".

**OR**

Write a simple program to demonstrate the use of different I/P or O/P functions in a single program.