[2]

- 5. a) What is an 'array'? How can it be declared? How can it be initialised? Discuss with examples.
 - b) Write program to sort a set of numbers (use Bubble sort algorithm). 3+2
- 6. What is user-defined function? How does it differ from the main function? Write a function to generate and print first 10 (ten) Fibonacci numbers. Discuss recurssive function.
- 7. What is 'storege class'? Discuss different storage class available in C language.

Ex/Comp.Sc/II/14/2019(Old)

FIRST B. Sc. Examination, 2019

(3rd Semester)

COMPUTER SCIENCE

PAPER - UNIT -2

Time: Two hours Full Marks: 50

Answer any five questions

- 1. a) What is an 'algorithm'? Write three characteristics of an algorithm.
 - b) Write a C program to find the value of 'e' using its series representation. 4+6
- 2. a) What is the difference between the H structure and loop structure? Discuss with appropriate example.
 - b) Write a program to generate and print the following pattern. 5+5

1 2 3 4 5 6 7 8 9 10

- 3. a) What are 'break' and 'continue' statements? Discuss with examples.
 - b) Write a programe to print first 25 prime numbers. 4+6
- 4. What is 'Switch case' structure? Explain the structure with the help of a program. How does it work?

 10

 Turn over

Ex/Int/Comp.Se./7/29/19(Old)

INTER B. Sc. Examination, 2019

(2nd year, 1st Semester)

UNIT - 7 (COMPUTER SCIENCE)

Lime: Two hours Full Marks: 50

Answer any five questions

- What is translator? Why do we need translator? Write the different types of translator. Discuss in brief the functions of different phases of compiler.
- 2. What is 'three address code'? What are the types of different 'three address code'? Discuss in brief. 10
- 3. Define 'operating system'. Explain the following types of operating systems –
- i) Multiprogrammed Batched Systems
- ii) Time-Sharing systems
- iii) Parallel Systems.
- 4. Write the systems components of operating system. Discuss their functions in brief.
- 5. What is process? What is process control block? Write the informations associated with process control block. Explain in brief.

[Turn over

[7]

6. Discuss in brief different disk scheduling methods.

- 7. What is virtual memory in connection with memory management system. How can it be achieved with the help of 'Demand Paged Memory Allocation System' Explain with
- figure.

10