Reg. No. : ....

Name : ....

I Semester M.C.A. Degree (CBSS – Regular) Examination, November 2020
(2020 Admission)

MCA1C02 : SYSTEM SOFTWARE AND OPERATING SYSTEMS

Time : 3 Hours　　　　　　　　　　　　　　　　　　　　　　　Max. Marks : 60

SECTION – A

Answer **all** questions. **Each** carries **two** marks.

1. What is Assembly Language Programming ?

2. What is Macro Pre-processor ?

3. What is Linker ?

4. What are the specification of tokens ?

5. Compare Batch Processing Systems and Real Time Systems.

6. What is Semaphores ?

7. What is Segmentation ?

8. What is Contiguous Allocation ?

9. What is Kernel I/O subsystem ?

10. What is Swap Space Management ?

SECTION – B

Answer **all** questions. **Each** question carries **eight** marks.

11. a) What is Assembler ? Briefly discuss the design of two pass Assembler.

　　　　　　　OR

　　b) What is Preprocessor ? Explain Macro Preprocessor.

12. a) What is Loader ? Explain the functions of loaders.

OR

b) What is Lexical ? Analysis and discuss the role of the lexical analyzer.

13. a) Explain the structure of an Operating System with a diagram.

OR

b) Explain Deadlock with an example. What are the conditions that results in a deadlock ?

14. a) What is Paging ? Explain paging with the help of a neat diagram.

OR

b) What are the file allocation methods used in systems ?

15. a) Briefly discuss RAID structure.

OR

b) Compare FCFS, SSTF, SCAN and CSCAN Disk scheduling algorithms.

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