Reg. No. : ....

Name : ....

I Semester M.C.A. Degree (CBSS – Reg./Supple./Imp.) Examination, November 2021
(2020 Admission Onwards)
MCA1C02 : SYSTEM SOFTWARE AND OPERATING SYSTEMS

Time : 3 Hours

Max. Marks : 60

SECTION – A

Answer **all** questions, **each** question carries two marks.

1. What is assembler ?

2. Define macro.

3. What is self relocating program ?

4. What are the roles of lexical analyzer ?

5. What are the functions of the operating system ?

6. What is process synchronisation ?

7. What is swapping ?

8. What are the common attributes of a file ?

9. What is I/O hardware ?

10. What is RAID ?

SECTION – B

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

11. a) What are the basic elements of Assembly Language Programming ?

    OR

    b) What is macro preprocessor ? Explain the design of macro preprocessor.

P.T.O.

12. a) What is linker ? Explain linking and relocation concept.

   OR

   b) What is compiler and discuss the different phases of compiler ?

13. a) Briefly discuss different types of operating system.

   OR

   b) What is thread ? Explain different types of thread.

14. a) Explain the concept of segmentation with paging.

   OR

   b) Explain various directory structures used in a system.

15. a) Briefly discuss Kernel I/O subsystem.

   OR

   b) Explain various disk-scheduling algorithms.

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