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Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (Software Development) (Sem.-1)

OPERATING SYSTEM (OS)

Subject Code : 5.GV.04

M.Code : 77048

Time : 3 Hrs.

Max. Marks : 30

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **ONE** mark each.
2. **SECTION-B** contains **FIVE** questions carrying **2¹/₂** (Two and Half) marks each and students has to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **FIVE** marks each and students have to attempt any **TWO** questions.

SECTION-A

1. State whether True/False and give brief explanation for your choice :

- a. Multiprogramming (having more programs in RAM simultaneously) decreases total CPU efficiency
- b. Unlike time sharing systems, the principal objective of batch processing systems is to minimize response time.
- c. A forked process shares its parent's data space at all times.
- d. A forked process may share code space with its parent.
- e. While DMA (Direct Memory Access) is taking place, processor is free to do other things.
- f. If there is no mutual exclusion condition for any resource in the system, then there is no possibility for deadlock.
- g. If we constrain the resource requests in such a way that no cycle can occur in the process- resource graph, then deadlock can be prevented permanently.
- h. If a running program chooses to ignore interrupts sent via keyboard (e.g. Cntl-C), it can do so.
- i. Logical partition can have physical files
- j. PCB resides in secondary memory.

SECTION-B

2. What is the relationship between operating systems and computer hardware?
3. How Buffering can improve the performance of a Computer system?
4. What are the primary differences between Network Operating System and Distributed Operating System?
5. What is the Difference between a Job and a Process?
6. What are the advantages of multiprogramming?

SECTION-C

7. What is a virus? What are their different types? How does it affect the system?
8. Explain various features of a compiler.
9. What are the various directory structures? Explain with example.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.