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Total No. of Questions: 18

B.Tech.(CSE)/(IT) (2012 to 2017) (Sem.-4)

OPERATING SYSTEMS Subject Code : BTCS-401 M.Code : 56604

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly:

- Explain the need of an Operating System.
- 2. Explain the term PCB in brief.
- Define the term deadlock with an example.
- Define the term thrashing. What is the cause of thrashing? Explain.
- Differentiate between Paging and Segmentation scheme of Memory Management.
- What is meant by Disk Scheduling? Why Disk Scheduling is necessary?
- What is the need of VO traffic controller? Discuss.
- 8. Explain in brief about the Physical File system.
- Differentiate between Protection and Security.
- Write two advantages of Windows based Operating System.

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SECTION-B

- Explain in brief about the functions of Kernel and shell.
- Write a detailed note on Process Synchronization.
- Write a brief note on Segmentation scheme of memory management.
- Write a brief note on Logical File System.
- Write a brief note on Windows based Operating Systems.

SECTION-C

- Write a detailed note on operating system structures.
- a) Explain in detail about device management policies.
 - b) Write a detailed note on I/O system in reference to device management.
- 18. a) Write a brief note on Layered Architecture in relation to file management
 - b) Explain in detail the following CPU scheduling algorithms:
 - (i) Shortest Job First
 - (ii) Multilevel feedback Queue scheduling

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.

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