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Total No. of Pages : 02

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B.Tech.(CSE)/(IT) (2012 to 2017) (Sem.-4) **OPERATING SYSTEMS** Subject Code : BTCS-401 M.Code: 56604

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students 3. have to attempt any TWO questions.

SECTION-A

Write briefly :

- Write at least two functions of Operating System 1) anter
- Write a brief note on Shell. 2)
- 3) Explain the term PCB.
- Explain in brief about process synchronization. 4)
- Differentiate between External and Internal Fragmentation. 5)
- Write at least two differences between Paging and Segmentation scheme of memory 6) management.
- 7) Why is disk scheduling important?
- 8) Differentiate between protection and security.
- Define the term file. List various attributes of a file. 9)
- 10) Write at least two characteristics of Windows based Operating Systems.



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SECTION-B

- 11) Explain the following terms in brief:
 - a) Multiprogramming Systems
 - b) Time Sharing Systems
- 12) Define the term deadlock. Explain the deadlock prevention in detail.
- 13) Explain with an example the concept of shared segments in detail.
- 14) Write a brief note on File System Architecture.
- 15) Differentiate between LINUX and Windows based operating systems.

SECTION-C

- 16) What is disk scheduling? Explain in detail the various algorithms of Disk scheduling with examples.
- 17) a) Explain any five LINUX Operating System commands with example.
 - b) Explain in detail the layered structure of an operating System.
- 18) Write a detailed note on Multiprocessor and distributed operating systems.

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.