



BBA-003-004301

Seat No. _____

B. C. A. (Sem. III) Examination

July - 2021

CS - 13 : Operating System

(Old Course)

Faculty Code : 003

Subject Code : 004301

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 Attempt following questions : 20
- (1) What is Operating System ?
 - (2) Define system cell.
 - (3) Define system program.
 - (4) What is process ?
 - (5) What is scheduling ?
 - (6) Define thread.
 - (7) What is deadlock ?
 - (8) Define logical address.
 - (9) Define physical address.
 - (10) What is software ?
 - (11) What is swapping ?
 - (12) What is paging ?
 - (13) Define segmentation.
 - (14) Explain term virtual memory.
 - (15) What is demand paging ?
 - (16) What is an algorithm ?
 - (17) What is hardware ?
 - (18) Define disk management.
 - (19) What is storage ?
 - (20) What is process scheduling ?
- 2 (a) Attempt any **three** questions : 6
- (1) Define system structure.
 - (2) Define process control block.
 - (3) What is multi-processor scheduling ?
 - (4) What is real time scheduling ?
 - (5) Define semaphores.
 - (6) How to avoid deadlock.

- (b) Attempt any **three** questions : **9**
- (1) List out types of Operating System.
 - (2) List out function of operating system.
 - (3) List out services of Operating system.
 - (4) List out scheduling algorithms.
 - (5) Explain process scheduling in Linux.
 - (6) Explain page replacement algorithm.
- (c) Attempt any **two** questions : **10**
- (1) What is operating system? Explain type of operating system in brief.
 - (2) Explain function of operating system in brief.
 - (3) What is process? Explain process control block in brief.
 - (4) What is scheduling? Explain types of scheduling.
 - (5) Difference between multi programming Vs multi tasking OS.
- 3** (a) Attempt any **three** questions : **6**
- (1) Define swapping.
 - (2) Explain batch operating system.
 - (3) Explain swap space management.
 - (4) Explain perforation of demand paging.
 - (5) Explain principles of I/O software.
 - (6) Explain multi processing Operating system.
- (b) Attempt any **three** questions : **9**
- (1) Explain online Operating system.
 - (2) Explain file attribute.
 - (3) Explain directory structure.
 - (4) Explain disk reliability.
 - (5) Explain stable storage implementation.
 - (6) Define I/O devices in brief.
- (c) Attempt any **two** questions : **10**
- (1) Explain paging in brief.
 - (2) What is segmentation? Explain in brief.
 - (3) Explain file and director structure of OS.
 - (4) Difference between Logical Vs Physical address.
 - (5) How to handle deadlock in brief.