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Roll No.....

ED-2866

B.C.A. (Part-II)

EXAMINATION, 2021

OPERATING SYSTEMS WITH LINUX

Paper Fifth

Time : Three hours

Maximum Marks : 80

Note : Attempt any two parts from each question. All questions carry equal marks.

- 1.(a) What is operating system ? Explain the batch processing.
- (b) Explain multiprogramming and multiprocessor system.
- (c) Write short note on :
 - (1) Operating system as resource manager
 - (2) Time sharing operating system.
- 2.(a) What is process ? Explain process state.
- (b) What is scheduler ? Explain types of scheduler.
- (c) Explain first come first serve (FCFS) scheduling algorithm with example.

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- 3.(a) Explain internal and external fragmentation with example.
- (b) Explain the paging system.
- (c) Explain list recently used (LRU) algorithm with example.
- 4.(a) What is Kernel ? Explain function of Kernel.
- (b) Define Vi Editor and discuss any five Vi features.
- (c) Explain the following command with suitable example :
 - (i) grep
 - (ii) awk
 - (iii) head
 - (iv) sort
 - (v) who.
- 5.(a) Explain different types of shell and any three features of each shell.
- (b) Write a shell program to check even or odd number.
- (c) Explain for loop with suitable example.