ANNUAL EXAMINATION 2020

(Only for Regular Students)

Note: Attempt any two questions from Each Unit. All questions carry equal marks.

Unit 1

1. (a) Describe batch processing and explain different advantages and disadvantages of batch processing system.
   (b) What is Operating System? Explain each function of operating system.
   (c) Explain multiprogramming and multiprocessing and its advantages and disadvantages.

Unit 2

2. (a) Explain PCB (Process Control Block).
   (b) Write short notes on:
      i.   Scheduling Queue   ii. Context Switch
   (c) Explain multilevel queue scheduling and multilevel feedback queue scheduling.

Unit 3

3. (a) What do you mean by fragmentation? What are its various types?
   (b) What is paging and how it is different from segmentation?
   (c) Consider the following page reference string:

   1,2,3,4,2,1,5,6,2,1,2,3,7,6,3,2,1,2,3,6

   How many page fault occur for the following page replacement algorithm for 3 frame initial empty:
      i. LRU
      ii. FIFO
      iii. Optimal Replacement

Unit 4

4. (a) Explain vi editor and their modes.
   (b) What is link? Explain types of link.
   (c) Explain the following commands with suitable examples:
      i.   grep   ii. lex and yacc   iii. grep

Unit 5

5. (a) Describe wildcard character in brief.
   (b) What is error Redirection?
   (c) Write a shell script to calculate the sum of digits of entered number.

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