**ANNUAL EXAMINATION 2020**

**(Only for Regular Students)**

***Centre No. 135 Centre Name- Disha College, Raipur (C.G.)***

**Class-BCA-II Subject- Operating System With Linux**

**Paper No- BCA 205 Paper Name- Operating System With Linux**

**Time- 3 hrs. Max. Marks-80 Min. Marks: 27**

**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**

1. (a) Explain PCB (Process Control Block).

(b) Write short notes on:

1. Scheduling Queue ii. Context Switch

(c) Explain multilevel queue scheduling and multilevel feedback queue scheduling.

**Unit 3**

1. (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:

1. LRU
2. FIFO
3. Optimal Replacement

**Unit 4**

1. (a) Explain vi editor and their modes.

(b) What is link? Explain types of link.

(c) Explain the following commands with suitable examples:

1. grep ii. lex and yacc iii. grep

**Unit 5**

1. (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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