

Roll No.

Total No. of Sections : 3

Total No. of Printed Pages : 5

Annual Online Examination 2021
Code No. : A.B.C-295

B.C.A. Part II
OPERATING SYSTEM WITH LINUX
BCA-205
Paper I

[Operating System With Linux]

Time : Three Hours]

[Maximum Marks : 80

Note : Section 'A' containing 10 very short answer type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

Section 'A'

Answer the following Very Short Answer Type Questions in one or two sentences. 1×10=10

1. Define O.S.
2. What is multiprocessing system ?
3. Explain process state.
4. What is multilevel queues ?

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5. What is fragmentation ?
6. Define virtual memory.
7. Full form of KDE is ?
8. What is shell programming ?
9. Define Vi-Editor.
10. What is shell variables ?

Section 'B'

Answer the following Short Answer Type Questions in about 150-200 words : 4×5=20

1. Explain history and evolution of operating system.

Or

Explain real time system functions.

2. Explain state transition diagram with example.

Or

Explain CPU scheduling algorithms with example.

3. Explain preliminaries of memory management.

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Or

Explain with example :

(i) LRU,

(ii) FIFO.

4. Explain feature and versions of Unix.

Or

Explain Vi-Editor command structure with example.

5. Explain standard error redirection with example.

Or

What is command line arguments ? Explain with example.

Section 'C'

Answer the following Long Answer Type Questions in about 300-350 words : **5×10=50**

1. Explain batch processing and spooling with example.

Or

Explain real time system functions and goals of operating system.

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2. Explain process concept and process control block with diagram and example.

Or

Describe queuing diagram and multilevel queues, feedback queues with example.

3. Explain contiguous memory and non-contiguous memory allocation with example.

Or

Explain the following with example :

(i) Demand paging,

(ii) Segmentation.

4. Explain the following commands with syntax and example :

(i) head,

(ii) chmod,

(iii) GREP,

(iv) sort,

(v) awk.

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Or

What is command macro ? How to create and use macro in Vi-editor ?

5. What is shell ? Explain different feature of shell and explain why use more shell.

Or

Explain with example :

- (i) String comparison,
- (ii) Numerical comparison.

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