

BCA-13
December – Examination 2020
BCA (IIIrd Year) Examination
Operating System-II
Paper : BCA-13

Time : 2 Hours]

[Maximum Marks : 70

Note :- The question paper is divided into two Sections A and B. Write answers as per the given instructions.

Section-A

7×2=14

(Very Short Answer Type Questions)

Note :- Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto **30** words. Each question carries 2 marks.

1. (i) What do you mean by Root Directory ?
- (ii) Give any *two* differences between CUI and GUI.

- (iii) Name the *seven* layers of the OSI Model.
- (iv) Give any *two* differences between hard and soft real time systems.
- (v) Who is a *Superuser* ?
- (vi) What are System Variables ? Give an example.
- (vii) What is Kernel ?

Section-B **4×14=56**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Answer should not exceed **200** words. Each question carries 14 marks.

- 2. Explain the terms (i) superblock (ii) inode (iii) indirect block.
- 3. How to perform real number calculation in shell script and store the result to the third variable, let's say $a=5.66$, $b=8.67$, $c=a+b$?
- 4. Differentiate between Password File and Shadow Password File in Linux System.
- 5. Explain octal notations to illustrate the access permission using *chmod* command with suitable examples.

- 6. What is a Daemon ? Enlist the NFS and NIS daemons with their brief functionality.
- 7. What is a Distributed Operating System ? How is it different from the traditional Operating System ? Explain Distributed File System.
- 8. What is the role of Buffering ? Explain the various buffering schemes used in interprocess communication.
- 9. Write a short note on the lightweight RPC (Remote Procedure Call).