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322676(22)

B. E. (Sixth Semester) Examination, April-May 2021

(New Scheme)

ADVANCED OPERATION SYSTEM

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : *Attempt all questions. Part (a) of each question is compulsory and caries 2 marks. Attempt any* ***two*** *parts from (b), (c) and (d) which carries 7 marks each.*

Unit-I

1. (a) Define distributed O. S.

   (b) Explain the distributed file service architecture in a distributed file system with an exmple.

(c) Explain Andrew file system.

(d) X.500 directory service is more than a global directory. Comment.

Unit-II

2. (a) Define cryptography.

   (b) Explain RSA algorithm with a suitable example.

   (c) Explain digital signature in detail.

   (d) Explain different issues in distributed algorithm design principles.

Unit-III

3. (a) Define a file.

   (b) Explain briefly I/O process management in UNIX.

   (c) What is SHELL? What are the responsbilities of Shell? Give the general format for unix command system.

   (d) Describe shell programming environment.

Unit-IV

4. (a) Define comamnt interpreter.

   (b) Draw and explain the architecture of WINDOWS OS.

   (c) Explain windows programming environment.

   (d) Explain brielfy memory management of window OS.

Unit-V

5. (a) Define Memory.

   (b) Compare memory management of Windows with Linux.

   (c) Explain system calls of Windows OS.

   (d) Explain system calls of Linux OS.