

322676(22)

B. E. (Sixth Semester) Examination, April-May 2020
(New Scheme)

ADVANCED OPERATING SYSTEM

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each question is compulsory and carries 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 architectural in a distributed file system with an example.

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- (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 signatures 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 a SHELL? What are the responsibilities of Shell? Give the general format for unix command system.
- (d) Describe shell programming environment.

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Unit-IV

- 4. (a) Define command interpreter.
- (b) Draw and explain the architecture of WINDOWS OS.
- (c) Explain windows programming environment.
- (d) Explain briefly memory management of windows 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.