

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BVoc DEGREE EXAMINATION DECEMBER 2019
(First Semester)

Branch - NETWORKING & MOBILE APPLICATIONS

OPERATING SYSTEM CONCEPTS

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10x1 = 10)

- 1 Multiprocessor system have advantage of
(i) Increased Throughput (ii) Expensive hardware
(iii) Operating system (iv) both (i) and (ii)
- 2 Deadlock involves reusable
(i) Resources (ii) Users
(iii) Time (iv) Cost
- 3 An unsafe state is of course a state that is not
(i) Require (ii) Safe
(iii) Run / (iv) Control
- 4 All deadlocks involve conflicting needs for
(i) Resources (ii) Users
(iii) Computers (iv) Programs
- 5 File which contains list of other file names is known as
(i) path file (ii) batched file
(iii) directory (iv) pathname
- 6 Process of creating copy of stored data onto another disc is termed as
creating
(i) locked files (ii) backup files
(iii) modified file (iv) destroyed file
- 7 When a thread needs to wait for an event it will
(i) Block (ii) Execute
(iii) Terminate (iv) Update
- 8 Secondary memory of computer system is also called
(i) nonvolatile (ii) volatile
(iii) reserved (iv) small
- 9 To start an I/O, operation device driver loads appropriate register into?
(i) memory (ii) Secondary storage
(iii) Device controller (iv) Arrays
- 10 Scheduling of threads are done by
(i) input (ii) output
(iii) operating system (iv) memory

Cont...

SECTION - B (25 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 5 = 25)

11 a Write a short notes on Operating Systems.

~ OR

b Explain : Process states

12 a Explain the principles of Dead lock.

OR

b Discuss Dead lock Prevention.

13 a Explain Paging.

OR

b Illustrate Security issues.

14 a Explain Disk Scheduling.

OR

b Illustrate I/O Management.

15 a Elaborate the concepts of B-Tree.

/

OR

b Write short notes on file system security.

SECTION -C (40 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 8 = 40)

16 a Explicate the evolution of Operating System.

OR ,

b Explain in detail about process control.

17 a Write in detail about Deadlock avoidance and Deadlock Detection.

OR

b Write a note on Integrated Deadlock strategy

18 a Describe Segmentation

OR

b Write in detail about Memory Partitioning.

19 a Explain RAID.

OR

b Expound organisation of the I/O functions

20 a Explain in detail about, the concepts of file sharing.

OR

b Write in detail about secondary storage management.