

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Fourth Semester)

Branch – INFORMATION TECHNOLOGY

OPERATING SYSTEMS

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 The initial program which initializes all aspect of the system, from CPU registers to device controllers to memory contents is known as _____ program.
(i) Bootstrap (ii) Assembly
(iii) Loader (iv) Machine - level
- 2 _____ method structures the OS by removing all non essential components from the kernel and implementing them as user level programs.
(i) Monolithic (ii) Microkernel
(iii) Hybrid (iv) Tracing
- 3 Cooperating processes require an _____ mechanism that will allow them to exchange data that is send data to and receive data from each other.
(i) IPC (ii) Information sharing
(iii) Shared memory (iv) Interrupt
- 4 The _____ model multiplexes many user- level threads to a smaller or equal number of kernel threads.
(i) 1- to -1 (ii) 1- to - many
(iii) many- to -1 (iv) many- to -many
- 5 With _____, a routine is not loaded until it is called. All routines are kept on disk in a relocatable load format.
(i) Dynamic Loading (ii) Address binding
(iii) Static Loading (iv) Relocatable
- 6 _____ allows a process to select a replacement frame from the set of all frames, even if that frame is currently allocated to some other process.
(i) Global Replacement (ii) Local replacement
(iii) Virtual memory (iv) Non- uniform memory access
- 7 _____ formatting fills the device with a special data structure for each storage location.
(i) Low - level (ii) Logical
(iii) Structural (iv) File
- 8 with _____ allocation , each file is a linked list of storage blocks, the blocks may be scattered any where on the device.
(i) Contiguous (ii) Indexed
(iii) Linked (iv) Indexed- Linked
- 9 In Linux, a new process is run after a call to exec(); but it is created by the _____ system call.
(i) Create () (ii) Process()
(iii) Fork() (iv) init()

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