



# Operating systems INT2206-6 Summer 2018-2019

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**Started on** Sunday, 17 March 2019, 8:00 PM

**State** Finished

**Completed on** Sunday, 17 March 2019, 8:15 PM

**Time taken** 15 mins 33 secs

**Marks** 19.00/20.00

**Grade** 9.50 out of 10.00 (95%)

## Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Suppose a system uses SJN (or SJF) CPU scheduling algorithm. The processes information (arrival time, duration) is P1(0,7), P2(2,4), P3(4,1), P4(5,5). Which is the average waiting time of the processes?

Select one:

- ☐ 2
- ☐ 3
- ☐ 5
- ☒ 4 ✓

## Question 2

Correct

Mark 1.00 out of 1.00

Flag question

Suppose a system uses SJN (or SJF) scheduling algorithm. The processes information (arrival time, duration) is P1(0,7), P2(2,4), P3(4,1), P4(5,5). Calculate the turnaround time of P1 ?

Answer: 7 ✓

## Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Suppose a system uses SJN (or SJF) CPU scheduling algorithm. The processes information (arrival time, duration) is P1(0,7), P2(2,4), P3(4,1), P4(5,5). Which is the total waiting time of the processes?


Select one:

- ☒ 16 ✓
- ☐ 17
- ☐ 18
- ☐ 15

**Question 4**

Incorrect

Mark 0.00 out of 1.00

 Flag question


Suppose a system uses SRTF (or preemptive SJF) scheduling algorithm. The processes information (arrival time, duration) is P1(0,24), P2(20,40), P3(30,10), P4(50,15). Show the order (e.g. P1 P3 P1 P4 ...) in which the processes are run?

Answer: P1 P2 P3 P4

**Question 5**

Correct

Mark 1.00 out of 1.00

 Flag question

Which is non-preemptive CPU scheduling algorithm?


Select one:

- ☒ FIFO ✓
- ☐ SRTF
- ☐ None of the above
- ☐ Round robin

**Question 6**

Correct

Mark 1.00 out of 1.00

 Flag question

Which is INCORRECT about Shortest Job First (SJF) CPU scheduling algorithm?


Select one:

- ☐ The shortest process will be selected to be run
- ☒ Shortest remaining time first (SRTF) CPU scheduling algorithm is the same as SJF ✓
- ☐ It is also a priority scheduling algorithm
- ☐ Another name of the algorithm is Shortest Job Next (SJN)

**Question 7**

Correct

Mark 1.00 out of 1.00

 Flag question


Suppose a system uses SJN (or SJF) scheduling algorithm. The processes information (arrival time, duration) is P1(0,7), P2(2,4), P3(4,1), P4(5,5). Calculate the turnaround time of P3 ?

Answer: 4

**Question 8**

Correct

Mark 1.00 out of 1.00

 Flag question

Suppose a system uses Round Robin (RR) CPU scheduling algorithm, the processes information (arrival time, duration) is P1(0,21), P2(30,10), P3(20,40), P4(40,25), and the time quantum is 15. Calculate the total waiting time of the processes?

Answer: 63

**Question 9**

Correct

Which is NOT one of the main tasks of operating systems?

Select one:

Mark 1.00 out of 1.00

Flag question

- ☐ Memory management
- ☐ Protection and security
- ☒ Play audio files ✓
- ☐ Storage management (such as CD, DVD, disks, ...)

### Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Which is INCORRECT about time-sharing system?

Select one:

- ☐ It is also applicable for multiple CPU hardware
- ☐ Utilize resources more effectively
- ☐ Allow several processes to run on a single CPU hardware
- ☒ Only utilize CPU effectively ✓

### Question 11

Correct

Mark 1.00 out of 1.00

Flag question

Suppose a system uses SJN (or SJF) scheduling algorithm. The processes information (arrival time, duration) is P1(0,7), P2(2,4), P3(4,1), P4(5,5). Which is the response time of process P2?

Select one:

- ☒ 6 ✓
- ☐ 10
- ☐ 8
- ☐ 12

### Question 12

Correct

Mark 1.00 out of 1.00

Flag question

Suppose a system uses RR scheduling algorithm. The processes information (arrival time, duration) is P1(0,20), P2(30,10), P3(20,40), P4(40,25), and the time quantum is 15. Which is the total waiting time of the processes?

Select one:

- ☒ 60 ✓
- ☐ 70
- ☐ 50
- ☐ 40

### Question 13

Correct

Mark 1.00 out of 1.00

Flag question

Which is the CORRECT relationship among process, program and application concepts?

Select one:

- ☐ An application may have several programs, a program has only one process
- ☐ An application has only one program, a program has only one process

- ☐ An application may have several processes, a process may have several programs
- ☒ An application may have several programs, a program may have several processes ✓

#### Question 14

Correct

Mark 1.00 out of 1.00

Flag question

Which is the CORRECT statement about a program?

Select one:

- ☐ Is a process
- ☐ Is a library
- ☒ Is a compiled (e.g binary code) application ✓
- ☐ Is a part of the operating system

#### Question 15

Correct

Mark 1.00 out of 1.00

Flag question

Suppose a system uses FCFS scheduling algorithm, the processes information (arrival time, duration) is P1(0,21), P2(30,10),P3(20,40), P4(50,15). Show the order in which the processes are run (e.g. P2 P1 P3 P4)?

Answer: P1 P3 P2 P4 ✓

#### Question 16

Correct

Mark 1.00 out of 1.00

Flag question

Which is INCORRECT about Shortest Remaining Time First (SRTF) scheduling algorithm?

Select one:

- ☒ The shortest process will be run first ✓
- ☐ The shortest remaining time process will be selected to run
- ☐ It is also a priority scheduling algorithm
- ☐ It is the preemptive Shortest Job First (SJF) algorithm

#### Question 17

Correct

Mark 1.00 out of 1.00

Flag question

Suppose a system uses FCFS CPU scheduling algorithm. The duration of the processes is P1(21), P2(10), P3(6) (and this is also the order of the processes in the queue). Calculate the total waiting time of the processes?

Answer: 52 ✓

#### Question 18

Correct

Mark 1.00 out of 1.00

Flag question

Which is CORRECT about a process?

Select one:

- ☒ Is an instance of a program ✓
- ☐ Is a file on hard disk

- ☐ Is a library
- ☐ Is an application

### Question 19

Correct

Mark 1.00 out of 1.00

Flag question

Which is INCORRECT about process control block (PCB)?

Select one:

- ☐ It is a data structure containing information of a process
- ☒ PCBs in all operating systems are the same ✓
- ☐ It contains the state of the process
- ☐ It contains memory management information

### Question 20

Correct

Mark 1.00 out of 1.00

Flag question

Suppose a system uses SJN (or SJF) scheduling algorithm. The processes information (arrival time, duration) is P1(0,7), P2(2,4), P3(4,1), P4(5,5). Calculate the turnaround time of process P4 ?

Answer:  ✓

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