



Bangladesh Army University of Engineering & Technology

Qadirabad Cantonment Natore-6431

Class Test Script

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Class Test

02

Invigilator's Signature & Date

Course Title: Operating System

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Class Test

(Please answer questions from here)

1. Ans: Operating system: A program that acts as an intermediary between a user of a computer and the computer hardware.

Main purposes of Operating Systems

i. Execute user programs and make solving user problems easier.

ii. Make the computer system convenient to use.

iii. Use the computer hardware in an efficient manner.

2. Ans: The ~~character~~ circumstances would a user be better off using a timesharing system than a PC on a single user workstation:

i. Response time should be < 1 second.

ii. Each user has at least one program executing in memory
→ process.

iii. If several jobs ready to run at the same time → CPU Scheduling.

iv. If process don't ~~fit~~ fit in memory, swapping moves them in and out to run.

v. Virtual memory allows execution of processes not completely in memory.

3. Ans: The difference between symmetric and asymmetric multiprocessing:

Symmetric	Asymmetric
i. Each processor is assigned a specific task	i. Each processor performs all tasks.
ii. In symmetric multiprocessing, the process is taken from the ready queue.	ii. In asymmetric multiprocessing process are master-slave
iii. Symmetric multiprocessing systems are costlier.	iii. Asymmetric multiprocessing is cheaper.
iv. Complex to design.	iv. Easier to design.

Three advantages of ~~multiprocessing~~
multiprocessor systems:

- i. Increased throughput.
- ii. Economy of scale.
- iii. Increased reliability.

Disadvantages of multiprocessor
Systems:

- i. More memory required and
as well as expensive too.

4. Ans: Advantages and disadvantages of
Open-source Operating Systems.

Advantages:

- i. The user open-source OS software free of charge, along with an active community of volunteer developers who help maintain it.
- ii. Open source operating system considered safer.
- iii. By making their OS software ~~company~~ companies can benefit from increased usages and customer feedback.

Disadvantage:

- i. Companies are likely to lose their money from lack of sales and lack of responses.

ii. Some open source OS software communities are underserved, leaving and the software dilapidated.

Those ~~poor~~ people has less money to afford Paid ~~software~~ Operating System. They can easily use Open source Operating System Software and benefited. In Open source Software less feature included and some security issues also ~~happened~~ ^{time to time.} happen. So, it is really a big disadvantage for those people who use open source operating system. In Open source Operating System have some repair and update issue, which trouble their customer much.

So, In open source operating system software have some good advantages and some disadvantages for their users.

