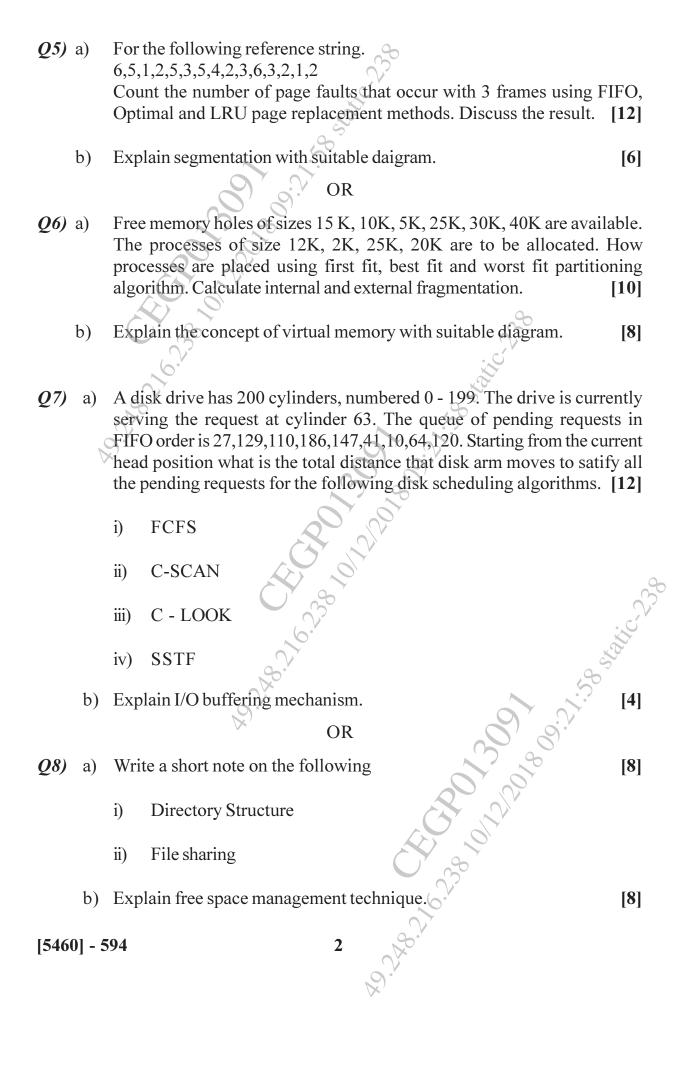
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(2015 Patte	ern) (Semester - I)
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Time: 2½ Hours] [Max. Marks:70 Instructions to the candidates: 1) Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10. Neat diagrams must be drawn wherever necessary. 2) Figures to the right indicate full marks. 3) Assume suitable data if necessary. 4) Elaborate the functions of operating system. **Q1)** a) [5] Specify the role of schedulers in operating system. b) [5] OR State command line arguments in shell with example. **Q2)** a) Differentiate between user - level and kernel - level threads. b) Describe in brief different IPC mechanisms. **Q3**) a) [5] Explain following terms: b) i) Critical Section. Race Condition. ii) OR Write a semaphore solution for readers - writers problem. *Q4*) a) [5] Explain with an appropriate example, how resource allocation graph b)

determines a deadlock. [5]

P.T.O.



Q9)	a)	Explain in detail Linux Booting process.
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[8]

b) List and explain different inter - process communication mechanisms in Linux operating system. [8]

OR

Q10) Write short note on following:

[16]

- a) Memory Management in Linux
- b) Linux File system.
- c) Kernel Modules
- d) Process Scheduling in Linux.

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