



BCH-2314 Seat No. _____

M. Sc. (CA & IT) (Sem. IV) Examination

March / April - 2014

404 : Operating Systems & UNIX

Time : 3 Hours]

[Total Marks : 70

- 1** a Write any **three**: **15**
- i Write and explain services of operating system.
 - ii What is process? Explain PCB in brief.
 - iii Explain process scheduling & performance criteria.
 - iv What is deadlock? Explain conditions of occurrence of deadlock.
- b Write any two: **4**
- i Mutual Exclusion
 - ii Semaphore
 - iii Real time Operating system.
- 2** Write any four: **16**
- i Explain dynamic memory allocation Scheme with example.
 - ii Explain paging in brief.
 - iii Explain demand paging in detail.
 - iv What is virtual memory? Explain how it works.

- 3** a Write any three: **15**
- i Explain program controlled I/o in detail.
 - ii Explain Interrupt driven I/o in brief.
 - iii What is file? Explain file continuous allocation method.
 - iv Explain directory services in brief.
- b Write any two : **4**
- i Direct access method
 - ii Interrupt latency
 - iii PIT
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- 4** Write any four : **16**
- i Explain RPC in detail.
 - ii What is shell? Explain type of shell.
 - iii Explain VI Editor in brief.
 - iv Explain proper architecture in detail.
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