Seat	
No.	

[5668]-186

S.E. (Computer Engineering) (Sem. I) EXAMINATION, 2019 OPERATING SYSTEM AND ADMINISTRATION (2012 PATTERN)

Time: Two Hours Maximum Marks: 50

- N.B. :— (i) Attempt Q. No. 1 or Q. No. 2, Q. No. 3 or Q. No. 4, Q. No. 5 or Q. No. 6 and Q. No. 7 or Q. No. 8.
 - (ii) Neat diagrams must be drawn wherever necessary.
 - (iii) Figures to the right indicate full marks.
 - (iv) Assume suitable data, if necessary.
- 1. (a) What is the Operating System? Explain the operating system services. [6]
 - (b) What is the use of kernel? Draw and explain the block diagram of system kernel. [6]

Or

- 2. (a) What do you mean by user perspective? Explain the file system structure with the help of diagram. [6]
 - (b) Explain the architecture of the UNIX operating system. [6]
- **3.** (a) How to mount file system? Explain unmount command with options. [6]
 - (b) What is bootstrapping? Explain steps in boot process. [6]

P.T.O.

4.	(a)	What is GRUB? Explain GRUB boot process in detail. [6]
	(<i>b</i>)	Define File. Explain the organization of the file trees. [6]
5.	(a)	What is Shell? Explain different types of shell. [6]
	(<i>b</i>)	Differentiate between program and process. Explain with neat
		diagram contents of a UNIX process image. [7]
		Or
6.	(<i>a</i>)	What do you mean by nice and renice value? What is dynamic
		monitoring with top ? [6]
	(<i>b</i>)	How to deal with runaway processes? How kill and signal
		can be used to deal with runaway processes? [7]
7.	(a)	What is the Storage Hardware ? Explain the Hierarchy of
		storage with diagram. [6]
	(<i>b</i>)	What is the LVM ? Explain the implementation of
	(0)	the LVM. [7]
		Or
0	()	
8.	(<i>a</i>)	Explain with the help of diagram the different levers of the
		RAID model. [6]
	<i>(b)</i>	What are the different steps of the disk partitioning? What
		are the advantages and disadvantages of the multiple
		partitions ?