all the steps involved in adding a new user without	Explain	(b)	
bootstrapping? Explain boot process steps in [6]	What is detail.	2. (a)	
Or			
[6]	file.		
difference between system call, libraries and header	State	(<i>b</i>)	
it. [6]	Environment		
Explain the characteristics of Unix file system as well as Processing		1. (a)	
suitable data, if necessary.	(iv) Assume		
to the right indicate full marks.	(iii) Figures		
diagrams must be drawn wherever necessary.	(ii) Neat di		
5 or Q. No. 6 and Q. No. 7 or Q. No. 8.	Q. No.		
Attempt Q. No. 1 or Q. No. 2, Q. No. 3 or Q. No. 4,	(i)	N.B. :-	
Maximum Marks: 50	Two Hours	Time:	
(2012 PATTERN)			
OPERATING SYSTEM AND ADMINISTRATION	OPERATIN		
Engineering) (First Sem.) EXAMINATION, 2015	(Computer En	S.E. (
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- i) Direct Block Pointers
- (ii) Indirect Block Pointers
- (iii) Double Indirect Block Pointers
- (iv) Triple Indirect Block Pointers.
- (b) What is process? Explain process transition diagram.

 State different reason of process swap out while in running state.

Or

- 4. (a) Explain the term context switch with respect to Kernel process is non-preemptive. [6]
- (b) Write short notes on:

[6]

- (i) Bash Scripting
- (ii) Perl Scripting
- (iii) Python Scripting.
- (a) Explain final outcome of the commands given below (use suitable example) :

OT

- (i) umask a-x
- (ii) ps -elf|grep chrome>abc.txt
- (iii) fdisk-1
- (b) Explain Modern access control Vs. Real word access control. [7]

[6]

using adduser command.

ů.	(a)	\mathbf{b}_{\bullet} (a) Explain the analogues related to process given below : [6]
		(i) Orphan
		(ii) Zombie
		(iii) Daemon.
	(9)	(b) What is Sticky a Bit? Explain importance of a sticky bit
		using appropriate symbolic example. How to check if a folder
		is not with Chilton Dit on not 9

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of a sticky	check if a folder	
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Bit? Explain	example.	not ?
田	lic	or
٥.	poor	Bit
Bit	sym	
Q	re	Sticky
Sticky a	priate symbolic	
Sti	orop	with
3	apl	
What is 5	using a	set
W	usi	S
(9)		

	[4]
	PATA.
	and
	SATA
	between
following	difference
the	State
Answer	(i) St
7	

[5] (ii) With neatly labelled diagram explain RAID.

(iii) Write a short note on Crontab scheduling.

. [4]

Or

Answer the following:

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Explain all the attributes of /etc/group file. (1)

[4]

- [2] (ii) Compare and contrast the Ext2, Ext3, Ext4 family.
- [4] (iii) What are different partitions in UNIX ? Explain.