# STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI –600 086 (For candidates admitted from the academic year 2010 – 11)

**SUBJECT CODE: BI/PE/LX23** 

## M. Sc. DEGREE EXAMINATION, APRIL 2011 BIOINFORMATICS SECOND SEMESTER

CC	UR	SE	:	ELECTI	VE					
PA	PEI	R	:	INTROD	UCTI	ON TO O	PERA	TING SYST	EM: LI	NUX
TI	ME		:	3 HOUR	RS					MAX.MARKS: 60
						S	ECTI	ON - A		
				he questio	ns:					
				olanks						$(15 \times 1 = 15)$
				ds for		·				
2.				er.lst						
								t the number of		
								extension		
5.	. ls –l chap chap01 chap02 chap03 chap04 chapx chapy chapz									
				_		-	_			racters
								of a comman		
7.				Symbol	is use	d to appen	d the	output of echo	commar	nd to a file. If file
	doe	s no	ot a	already exi	st, it is	created.				
8. 7	The .			con	struct e	expands ar	nd eval	uates an arith	metic exp	pression
9					_is an	Open Soui	rce gra	phical deskto	p enviro	nment for UNIX
		W	or	kstations.						
10				Co	mmand	l is used to	displ	ay the number	r of files	in the current
10.				ctory.	iiiiiaiic	i is used to	dispi	ay the number	or mes	in the current
11	The			•	n of th	e cut comi	mand i	s used to spec	rify a fiel	d senarator
										in shell scripts.
				as first dev				comman	ia is asca	in shen scripts.
					-	•		the command	is	
							•	do shell prog		
15.				15 a text	cuitoi,	WIIICII 13 (	uscu ic	do silen prog	31 0111111111	<b>5</b> ·
II (	Cho	ose	th	e best ans	wer					$(15 \times 1 = 15)$
16.	Wh	en (	cre	ating a file	with c	at, you ca	n term	inate input by	pressing	5
	a)	<c< th=""><td>trl-</td><td>·s&gt; b) <c< td=""><td>trl-q&gt;</td><td>c) <ctr< td=""><td>l-d&gt;</td><td>d) none of the</td><td>hese</td><td></td></ctr<></td></c<></td></c<>	trl-	·s> b) <c< td=""><td>trl-q&gt;</td><td>c) <ctr< td=""><td>l-d&gt;</td><td>d) none of the</td><td>hese</td><td></td></ctr<></td></c<>	trl-q>	c) <ctr< td=""><td>l-d&gt;</td><td>d) none of the</td><td>hese</td><td></td></ctr<>	l-d>	d) none of the	hese	
17					-	,		<i>'</i>		nder the root directory
11.								-		d) Both a & b

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18.			combines the contents of file 't1' and 't2' into another file 't1t2'								
	a)	cat t1 t2 t3	b) ca	t t1 t2>t1t2	c) cat	>t1t2	d) cat>	t1 t2			
19.	Wł	nat commai	nd is used to so	ort the lines of	data in a	file in alph	abetical ord	er?			
	a)	sort - r	b) st		c) sh	d)	sort				
20.	Wł	nat commai	nd is used with	vi editor to sa	ave file a	nd remain ii	n the editing	g mode?			
	a)	X	b) q!	c):w	d) :q						
21.			shell's wild-ca	rd is used to n	natch any	number of	characters i	ncluding none?			
			b) ?								
22.	22 displays the current working directory?										
	a)	path	b) pwd	c) dir		d) shell					
23.			changes the	ownership of	one or n	nore files to	newowner				
	a)	chmod	b) chgrp	c) chown	d) non	ne of the abo	ove				
24.	The command is to dump data on a disk.										
	a)	dd	b) mformat	c) fdformat	d) mk	bootdisk					
25.	Th	e file transf	ers with	is used	d frequen	tly for upda	ting files ac	ross a network			
	a)	Rsh	b) Encryption	c) rs	ync	d) rshd					
26.	A	variable tha	t one can nam	e and assign a	value to	is called a _		variable.			
	a)	Positional	parameter	b) Shell vari	able	c) static va	ariable	d) both a & b			
27.	In	Linux, to e	cho a string an	d keep the cur	sor on th	e same line,	use				
	a)	–e option	b) the	escape seque	nce \c	c) both a &	b d) none	e of these			
28.	Th	e top-most	directory in ev	ery file syster	n which	has no parer	nt, is indicat	ed by /			
	a)	root	b) sub- direct	ory c) pa	rent-chil	d d)	leaf				
29.		nat does kil									
	a)	Kills proce	esses spawned	by user	b) kill	s all backgr	ound proces	sses			
	b)	kills the m	ost recent bac	kground proce	ess d)kill	s the oldest	background	l process			
30.		i	s the creator of	of a file having	g complet	e authority	of determin	ing its contents			
	and permissions										
	a)	Owner	b) use	er c) gr	oup	d) both a &	k b				
TTT	Sar	y true or fa	deo					$(5 \times 1 = 5)$			
				nformation				$(3 \times 1 - 3)$			
	<ul><li>. "who am i" shows the user information.</li><li>. A UNIX variable does not require \$ for evaluation.</li></ul>										
	. Is –I command, changes the access time of the file.										
	Filter command uses standard input and standard output.										
35.			racter used by	the shell to ma	atch a gro	oup of filena	mes with si	ngle			
	expression is wild card.										

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## IV Match the following

 $(5 \times 1 = 5)$ 

- 36. chmod a) &
- 37. Background job b) file permissions
- 38. Home c) regular file
- 39. Ordinary file d) | symbol
- 40. Std i/p & o/p e) login

#### **SECTION - B**

### Answer any two of the following

 $(2 \times 10 = 20)$ 

- 41. a) Discuss on Linux GUI, Properties of Linux
  - b) Explain the Linux file system
- 42. a) What are the wildcards used for filename matching?
  - b) Write a short note on I/O redirection
- 43. Briefly explain fundamental backup techniques.
- 44. Write the output and correct the errors in the following program:
  - a) echo "enter file name /c"

read file

lines='cat file | wc'

if [ \$lines < 10 ]

echo '\$file is a small file "

fi

if [ lines < 20 ]

then

echo '\$file is a big file'

else

echo '\$file is a very big file'

b) echo "enter department /c "

read \$dept

if [\$dept eq mktg && \$dept eq admn && \$dept eq finance]

echo "Valid dept"

else

echo '\$dept is not valid dept'

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