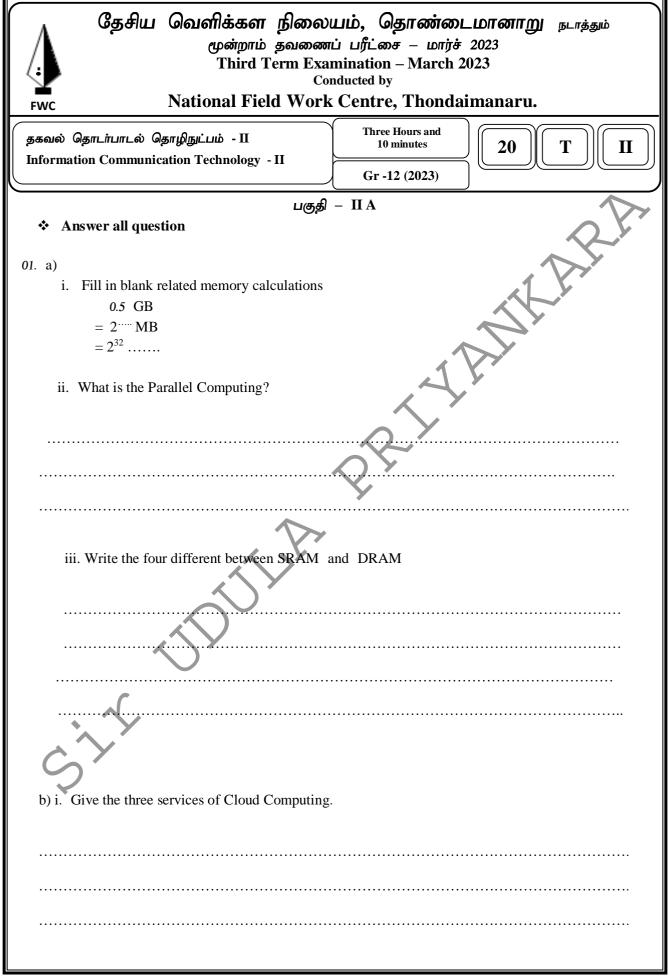


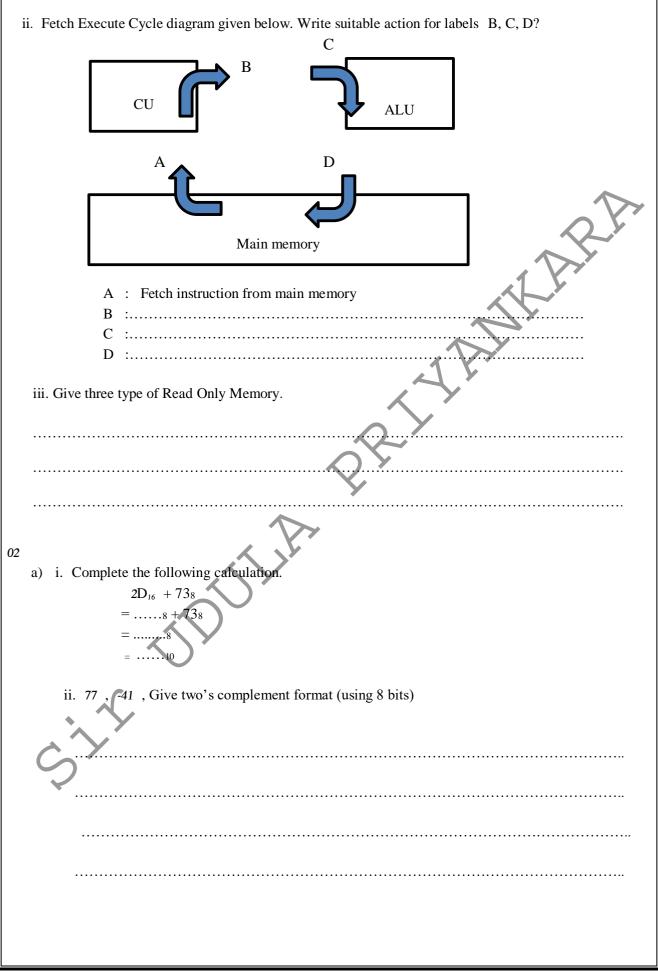
1) AND 2) NOT 3) OR 4) XOR 5) XNOR 13) Which is/are ture of following statement $A - 125_{10} = 178_8$ $B - A6_{16} = 1010110_2$ $C - 25_{10} + 47_8 = 1100_8$				
$A - 125_{10} = 178_8$ B - A6_{16} = 1010110_2				
$A - 125_{10} = 178_8$ B - A6_{16} = 1010110_2				
$B - A6_{16} = 1010110_2$				
$C = 25_{10} \pm 47_0 = 1100_0$				
1) A only2) A and B only3) A and C only				
4) B and C only 5) A, B, C all				
14) Equal Hexadecimal number of octal number 65. 48?				
1) 41.8_{16} 2) 35.8_{16} 3) 35.4_{16} 4) 53.5_{16} 5) 53.8_{16}				
15) Which is/are equivalent Boolean expression of $(\overline{\overline{A} + B\overline{C}})$ in following statements?				
$A - A\overline{B} + AC$				
$B - \overline{A} \overline{B} + BC$				
$C - A\overline{BC}$				
1) A onle 2) B only 3) A, B only				
4) A, C only 5) A, B, C all				
16) Which is equivalent to the abstract form of Boolean expression obtained by following K-map?				
1) $A + \overline{B}$ AB				
2) $A\overline{B}$ 00 01 11 10				
3) $B + \overline{C}$				
4) $BC + \overline{B}\overline{C}$ C 0 1 1 1 1				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
17) Consider the following statements.				
A – Only normal additions (Single bit) can be made				
B - It has three input and two outputs				
C - Using Carry bit				
Which of the following is/are wrong statement(s) regarding half adder?				
1) A only2) B only3) C only				
4) A, C only 5) B, C only				
18) Which of the following allows automatic installation when installing new hardware device to				
Computer				
Description2) Add remove hardware3) Add Hardware utility				
4) Fetch and store5) Plug and play				
10) Which of the following is a suitable excepting suctor for towns and in suctors?				
19) Which of the following is a suitable operating system for tsunamni warning system?1) Single user single task operating systems (OS)				
2) Single user multi task OS				
3) Multi user multi task OS				
4) Real time OS				
5) Multi-processing OS				
27 Huiti Processing Ob				

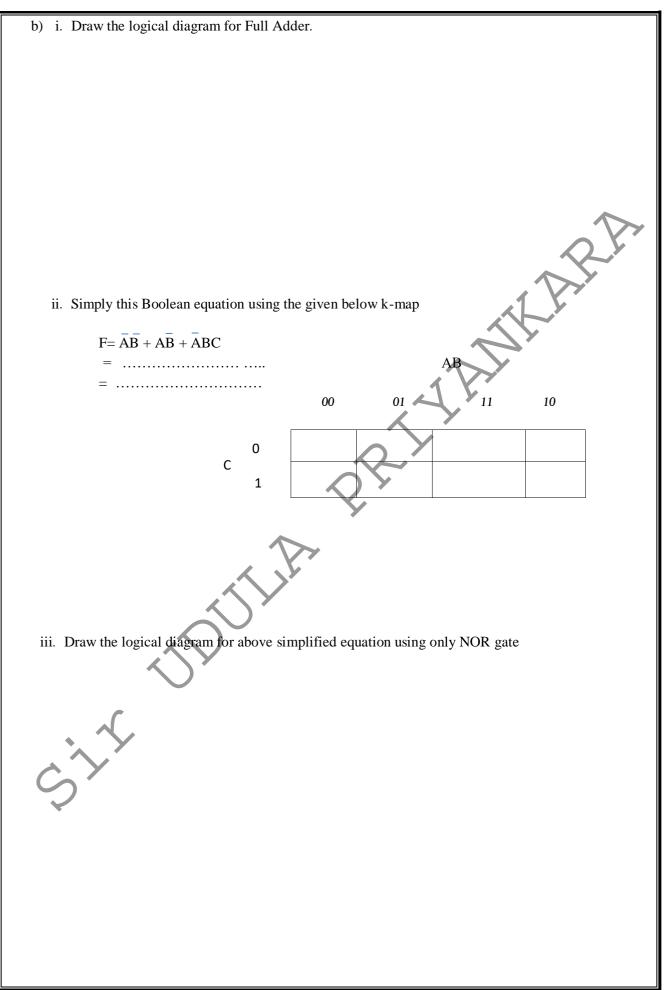
20) Which of the follo	wing statemer	nts is correct regarding	g software?		
(1) Utility softwar	e is usually st	ore in ROM.	-		
	(2) Embedded in devices are utility software.				
	(3) System software is used to inter communication between external devices.				
(4) Utility softwar					
(5) Firmware is m	anage the dev	vices.			
21) Advantages having	g more than or	ne partition on a hard	drive		
	-	n program file and op	erating system	\sim	
(2) Ability to reco		-			
(3) Easy to create				Q.Y	
(4) Getting multi(5) Easy to backup		y to done			
(5) Easy to backuj	þ				
22) Which of the follw	ving is/are me	asured by same unit?			
A- Amplitude and	d Wave length	l	~	$\mathcal{P}_{\mathbf{x}}$	
B- Amplitude and					
C- Frequency Bar					
D- Wave length a	nd Band widt		AY		
1) A only		2) A, C only 3) A, C, D only			
4) B, C only		5) A,B,D only			
23) The number system	n and number	of bits used to presen	t MAC address		
1) Hexa, 48		2) Hexa, 64	3) Hexa	, 32	
4) Binary, 48		5) Binary, 32		, ,	
24) Which of the follo	-	nt(s) is/are incorrect re	garding star topolog	gy?	
A- Centralize con		$\langle \rangle_{r}$			
B- Host comports					
C- Each host are		h nearest host			
D- Here used is H	lub/Switch.	$(\mathbf{A}) \mathbf{D} \mathbf{C}$ and (\mathbf{A})			
1) A, B only $(A \cap B)$	Υ Y	2) B, C only 5) B, D only	3) C, D	only	
4) A, D only	\bigcirc	5) B, D only			
25) IP address of a co	omputer in a c	computer network is	150.200.45.7/23.	Maximum number of Host	
connected in this r	network?	_			
1) 64	2) 126	3) 1022	4) 510	5) 254	
C Y					
26) Which of the follo	-				
1) 255.255.255.24	8	2) 255.255.255.245	3) 255.2	55.128.0	
4) 255.255.0.0		5) 255.192.0.0			
27) Which of the follo	wing is a com	mand used by differen	t computer user in co	omputer network to confirm	
the connectivity of	-		1		
•	Ipconfig	3) telnet	4) ping	5) IP tool	
. ,	- 0	,		·	

	•	in two different network respectively
$P \rightarrow 192.168.16.63, 255.23$	55.255.192	
$Q \rightarrow 192.168.16.200, 255.$	255.255.192.	
A - P, Q are same network		
B - Both are different netw		
C - IP address of P is not v		
D - IP address of Q is not	valid.	
Which is/are true above sta	tement(s)?	
(1) A only	2) B only	3) A, C only
4) C, D only	5) B, C only	
1) C, D Olly	5, 2 , c only	
20) Which of the following is	hange by the frequency me	dulation tachnique
29) Which of the following is a		duration technique
(1) Amplitude and frequer		
(2) Amplitude, frequency	-	
(3) Amplitude and phase of	only	
(4) Frequency only		Y
(5) Amplitude only		
30) Which of the following pro	otocol used to download the	software from internet?
(1) POP3 (2) HTTP	(3) FTP (4) SI	MTP (5) Telnet
31) A router is used to connec	t the different networks to f	orm a wider network. More than this, it is use
one	K	2
(1) Find the suitable path		
(1) That the suitable path(2) Create the frame	\sim	
(3) Blocks the malware		
(4) Performs encryption		
(5) Follow the TCP and U	DP	
32) Integration testing comes s	econd step of system testing	sequence. Which of the step comes acceptance
testing?		
1) 1 st Step	2) 3 rd Step	3) 1^{st} or 3^{rd} Step
4) 1^{st} or 2^{nd} Step	$5) 4^{\text{th}} \text{Step}$	c) i i i i i i f
4)1 012 Step	5) + Step	
22) Which of the following ref	and to non functional require	-mont(a)
33) Which of the following ref	•	
1 .	nd balance amount in ATM	
	ne card before received the c	cash inATM machine
C – The system should ful	fill 99%	
1) A only	2) A, B only	3) B, C only
4) A, C only	5) A, B, C all	•
	<i>c) i i</i> , <i>b</i> , <i>c u i</i>	
24) It's a good axample of alos	ad sustan when it is areata	notumilly
34) It's a good example of close	•	naturally
1) Human blood circulati	•	
2) Human respiratory sys		
3) Photosynthesis System		
4) Human digestive syste	m	
5) ATM machine		
- ,		

1) Spiral	2) Proto typing	3) Water full
4) Agile	5) None of the above	
36) Consider the following	phases of system implementation	
A – Direct	B – Phase	C - Parallel
What is/are the method	(s) that allow time for user to under	stand the system better?
1) A only	2) B only	3) C only
4) A, B only	5) A, B, C all	
37) Which of the following	characteristics is the diagram create	ed during the system design phase
•	view of system performance	
-	of data between the main component	nts of the system
-	with the Context Diagram	
1) Document flow dia	e	
2) Level 1 data flow d	-	
3) Logical data model	-	
4) Low level data flow	v diagram	A F
5) Level 2 data flow d	iagram	
38) Consider the following	statements regarding software pack	ages that can be purchased in market
_	o meet the needs of world common	
	mized software, not all user always	
-	less expensive than customized soft	
Which of the following	-	
1) A only	2) B only	3) C only
4) B, C only	5) A, B, C all	
<i>39</i>) The following system a	re always based on artificial intellig	ence
A – Expert System		-
B – Enterprise resource	planning system	
C – Multi agent system		
D- Geographical inform	nation system	
1) A, B only	2) A,C only	3) A, D only
4) B, D only	5) C, D only	
	have content of Process Control Bl	ock (PCB)?
	ension, Program counter	
2) File extension, Proc		
 3) File size, Registers, 4) Process ID Memory 	•	
 4) Process ID, Memor 5) File size, File exten 	y limit, Process state	
<i>5)</i> File size, file exten	51011, F10CESS ID	

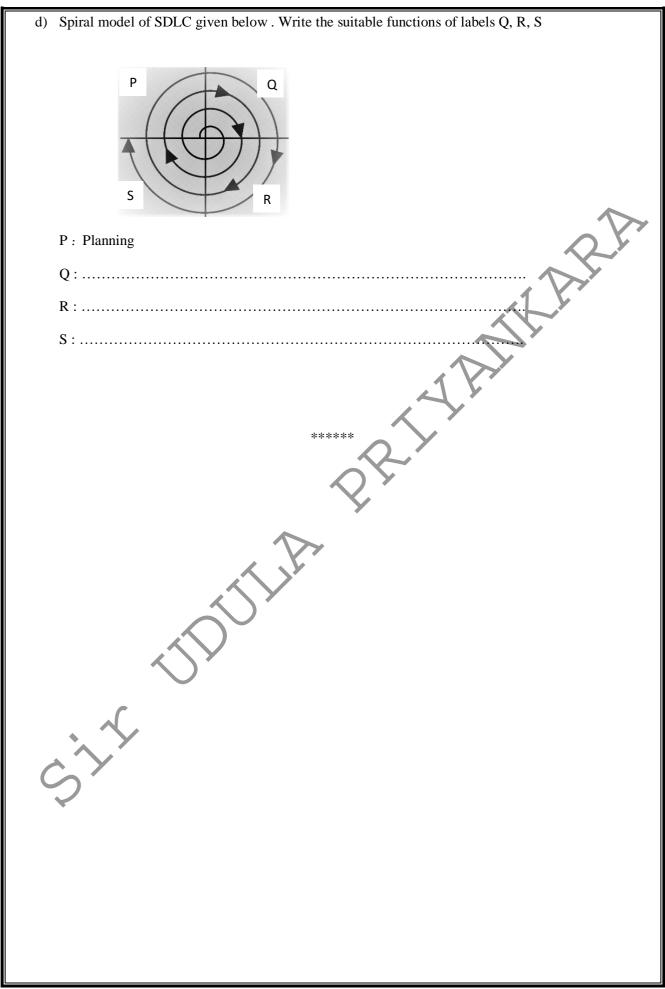


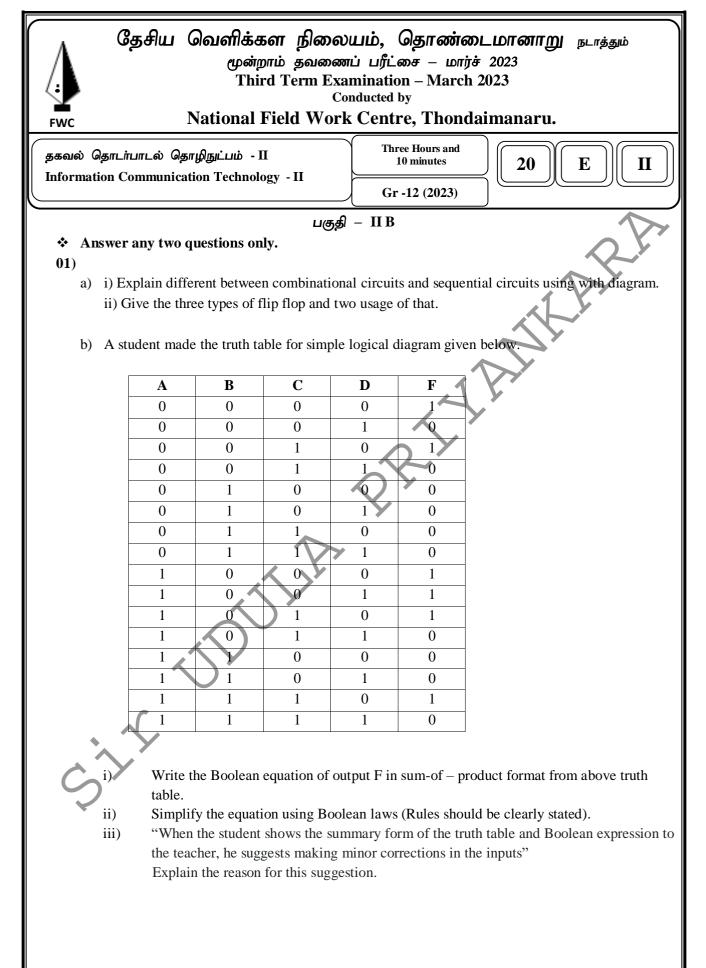




03. a) i. What is the Process?
ii. Give the three type of scheduler and brief function of that
iii. Cive two educateges of Virtuel Memory
iii. Give two advantages of Virtual Memory
b) i. What you mean about Index Allocation?
ii. Give an advantage of Index Allocation.
 c) In a certain computer, physical memory has a total capacity 4GB. The size of memory frame is 4 KB. Compute the total number of the frame in the physical memory.
Compute the total number of the frame in the physical memory,

a) 1	. Write the two advantages of mesh topology.				
i					
	i. Give the two different between hub and switch.				
b)	Write the suitable term get from bracket in blanks of following table {DNS server, DHCP server, Web server, Proxy server, FTP server}	TH. P.P.			
	Definition	Servers			
	Provide the internet facility to all use in network				
	Convert to URL to IP address				
	Provide the IP address to all host in a network as automatic				
	Use for communicate the Large size file				
	c) i. Write the two advantages of public switch telephone network (PSTN)				
	ii. Give the one uses of Telnet Protocol?				





02)

a) i. Give the four functions of Transport layer in OSI model ii. Give the two types of Encryption methods for data security

b) You have been appointed as the manager of a computer network development project of a department of education. Instructions and device details provided there are as follows

Instructions

- Internet facility should be provided to all users.
- Provide protection again virus spread and cyber thieves.
- All devices mentioned in the device pro file should be included in the network
- The network will be controlled by the ICT unit.
- The building for the sports unit is 350 m apart and the other units are on different floors of the same building.

Device's Details

r		
Units	Computer	Other devise
Admin	12	1 Network Printer
Accounting	32	5 Printers
Sports	5	1 Network Printer
ICT	20	3 Printers

- i. Provide all required to complete this network
- ii. Draw a suitable diagram for this network
- iii. If you have been given IP packet 192.168.100.0 then copy and complete the following table in your answer sheet.

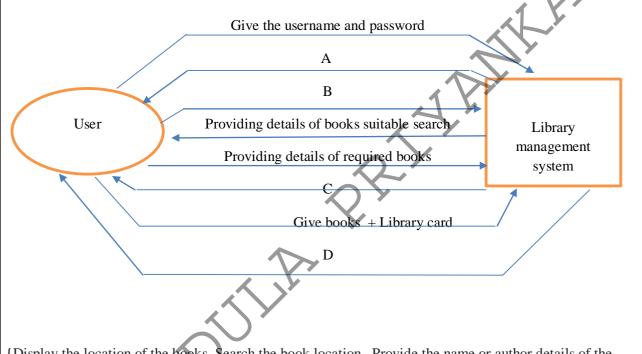
in your une	swer sheet.		
Units	Subnet mask	Network ID	Usable Range
Admin	255.255.255.240		192.168.100.1 to
	235.235.235.240		
Accounting		192.168.100.0	to
		172.100.100.0	192.168.100.62
Sports	255.255.255.248	192.168.100.0	to
ICT			to
b			

03.

a) i. Draw a diagram of waterfall model and give two advantages and one disadvantage ii. Explain the difference between black box and white box testing

b) Involved in the development of School Library Automated Information System

- i. Give four methods of collecting it during requirement analysis phase
- ii. Give the three functional and non-functional requirements for this information system.
- iii. Context diagram given below. Select the suitable function from brackets for labels A, B, C, D



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