132/2015

Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	For Intel	Core i3 processor, GMO	CH is integrated with:	
	(A)	South Bridge	(B)	GPU
	(C)	North Bridge	(D)	FCH
2.		to perform a critical ta	sk in timeliness, a mu	lltimedia system may use which of the
	(A)	SSTF	(B)	SATF
	(C)	Elevator	(D)	Real Time
3.	An omega	switching network wi	th n CPU and n memo	ries requires how many switches?
	(A)	$(n\log_2 n)/2$	(B)	$n/2(n\log_2 n)$
	(C)	$\log_2 n$	(D)	$\log_2 n/2$
4.	The mini	mum pit length for a si	ngle layer DVD is :	
	(A)	500	(B)	400
	(C)	-600	(D)	250
5.	to comple	ing system with n segrete a sub operation in the value of n ?	ments takes 50 sub op each segment is $8 n \text{se}$	erations in a sequence. The time taken c. If the task is completed in 424 nsec,
	(A)	2	(B)	8
7	(C)	4	(D)	16
6.	In multi	processor system, a es from using the system	processor generated m bus as long as the si	signal that serves to prevent other gnal is active can be called as:
	(A)		(B)	Pipe
	(C)	Hardware Lock	(D)	Critical Session
7.	of Progra	ginning of an instructi m Counter is 320. Wh mber 7. Then the effect	en the instruction is r	of the Instruction Register is 5 and that ead, the address part of the instruction address mode is:
	(A)	328	(B)	327
	(C)	325	(D)	342

8.	The return	n address from a subr	outine call is arranged	as:
	(A)	Round Robin	(B)	FIFO
	(C)	LIFO	(D)	Queue
9.	The Boots	trap Loader resides in	n:	
	(A)	Hard Disk	(B)	Any bootable device
	(C)	RAM	(D)	ROM
10.	The IRQ	commonly assigned to	Hard Disk Controller i	s:
	(A)	11	(B)	12
	(C)	13	(D)	14
11.		2 type RAM with 8 interfresh rate can be:	ternal blocks and clock	speed 533 MHz, the maximum average
	(A)	4.5	(B)	7.8
	(C)	33.3	(D)	17.5
12.	An operat		s a set of procedures in	which, each can call any other without
	(A)	Virtual System	(B)	Layered System
	(C)	Distributed System	(D)	Monolithic System
13.	A program	n in execution state is	s called as:	
	(A)	Shell	(B)	Process
	(C)	Task	(D)	Thread
14.	A situation	on in which a multipro	ogramming system sper	nds more time in page I/O:
	(A)	Starvation		Dead Lock
	(C)	Fragmentation	(D)	Thrashing
15.	of averag	e seek time. The disl	x rotates at a speed of	isk with 512 bytes per sector and 10 ms 7200 rpm and transfers data at a rate at there is no service time:
	(A)	19.6 ms	(B)	16.2 ms
	(C)	15.3 ms	(D)	10.3 ms
16.	When a p	rocess wants to print	a file, it writes the file	name in a directory called :
	(A)	Spooler	(B)	Buffer
	(C)	Daemon	(D)	Log

132/2015

A

17.		and paging system, M is the alt. P is the probability of pa			
	(A)	P*M+(1-P)*F	(B)	M + (1-P) * F	/
	(C)	(1-P)*M+P*F	(D)	(M+F)*P	
18.	Externall	y defined symbols are resolv	ed by:		
	(A)	Compiler	(B)	Linker	
	(C)	Loader	(D)	Lexical Analyser	
19.	The initial critical se	al value of a semaphore th	at ensures only	one of the many proces	ses enter the
	(A)	0	(B)	1	York Barrier
	(C)	-1	(D)	2	
20.	Debuggin	g a kernel code is a difficult	task, because of		an Way 1
	(A)	kernel code cannot be exec	uted easily under	a debugger	
	(B)	bugs in a kernel code can related to a separate proces		가게 하는 수 집에 하는데 아니라 없는 것이 되어 가장 맛이 되어 가장 하는데 하는데 하나 가게 되고 하는데 때문.	
	(C)	errors may be hard to repre	oduce and may co	ollapse the entire system	
	(D)	all the above reasons			
21.	Which of	the following HTML tag has	an attribute call	ed Frame?	
	(A)	<input/>	(B)	<form></form>	
	(C)	<frameset></frameset>	(D)	<table></table>	
22.	The HTM	L DOM Event that is trigger	red automatically	when a user enters a we	b page is:
	(A)	OnLoad	(B)	OnFocus	
	(C)	OnOpen	(D)	OnShow	
23.	CORBA p	rogrammers can develop dis	tributed applicat	ions in C++/Java using :	
	(A)	Orbix	(B)	OpalOrb	
	(C)	GIOP	(D)	EJB	
24.	XML capt	ures Hypertext information	using:		
	(A)	<a>	(B)	XLL	
	(C)	XLS	(D)	DTD	
25.	In DHCP,	the UDP port number for se	ending data to th	e server is :	
	(A)	60	(B)	62	
	(C)	65	(D)	67	

26.	Which of t	the following statement is fa	lse?		
	(A) It is not possible to convert an HTML document into an XML document				
	(B)	Both XML and HTML are s	subset of SGML		
	_ (C)	A well formatted XML docu	ument need not r	equire DTD	
	(D)	CSS works better with XM	L than with HTM	ML,	
27.	In a style	sheet, the style rule from an	other CSS file ca	an be loaded using:	
	(A)	@include	(B)	@import	
	(C)	@attach	(D)	@load	
28.	The easie browser fe	est method for a Web Serv	er program to s	store the client information in a web	
	(A)	Applet	(B)	Cookie	
	(C)	Template	(D)	Log file	
29.	A form of	address spoofing resulting i	n denial of service	ce attack:	
	(A)	Session Hijacking	(B)	Island Hopping	
	(C)	Sniffing	(D)	War Dialing	
30.	Which of	the following is a JavaScript	debugging meth	nod?	
	(A)	window.alert	(B)	console.log	
	(C)	document.write	(D)	document.getElementById	
31.	Which of	the following statement is for	alse?		
	(A)	Samba can play a numb Primary Domain Controlle		es such as File Server, Print Server	
	(B)	Samba allows to share file	s with windows	host	
	(C)	SWAT requires no web ser	ever running		
	(D)	SWAT interface cannot be	directly accessed	d from web browser	
32.	Simplest	way to pass data between tw	wo Linux program	ns running in a system is:	
	(A)	Socket	(B)	Pipe	
	(C)	Semaphore ·	(D)	RPC	
33.	The Linu	x command that can be used	l to search for a	pattern matching string in a file:	
	(A)		(B)	which	
	(C)	grep	(D)	search	

34.	In Redha	t Linux, the powerful and	secure method for	network configuration is:
	(A)	NetBios	(B)	Netstart
	(C)	IPSec	(D)	Apache
35.	The file s	ystem that is the best cho	oice for new installa	tions of Linux is :
	(A)	NTFS	(B)	EX2
	(C)	EX4	(D)	JFS
36.		ux kernel, two mapping or CPU and peripherals. T		taneously used as compatibly mapped
	(A)	Consistent Mapping	(B)	Buffer Mapping
	(C)	Streaming Mapping	(D)	Scatter Mapping
37.		that can only archive a gion by itself:	roup related files in	to a single file and cannot perform any
	(A)	rar	(B)	bz2
	(C)	tar	(D)	gz
38.	GNOME	Display Manager can be o	configured by editing	g:
	(A)	gdm.conf	(B)	GNOME.conf
	(C)	Xserver.conf -	(D)	XDM.conf
39.	The powe	rful online help system of	f Linux is :	
	(A)	who	(B)	man
	(C)	more	(D)	how
40.	A Linux installation		o create hard disk	partitions only at the time of Linux
	(A)	fdisk	(B)	cfdisk
	(C)	Disk Mount	(D)	DRUID
41.		age time required to per $h n$ elements:	form a successful s	sequential search for an element in a
	(A)	n/2	(B)	(n+1)/2
	(C)	(n-1)/2	(D)	2n
42.		e in a tree has a value g all values in the right sub		es in the left subtree and has a value is:
	(A)	Binary search tree	(B)	Complete tree
	(C)	Balanced tree	(D)	Threaded tree

43.	The sort r	nethod that switches the adj	acent elements,	if needed after comparison is:
	(A)	Heap sort	(B)	Quick sort
	(C)	Insertion sort	(D)	Bubble sort
44.	Minimum	number of queues needed to	implement the	priority queue is :
	(A)	1	(B)	2
	(C)	3	(D)	4
45.	After a se	quence of steps in an algorit	hm, a linked list	reaches the following step,
	START =	NULL		
	The	n the situation is,		
	(A)	overflow	(B)	underflow
	(C)	initialisation	(D)	saturation
46.	The resul	t of following expression in p	oolish notation is	
	4 3 2 + *	* 8 4 / -		
	(A)	13	(B)	12
	(C)	18	(D)	34
47.	The data	structure that can implemen	nt a recursive pro	ocedure is:
	(A)	Tree	(B)	Linked List
	(C)	Queue	(D)	Stack
48.	For a sort	ted linked list of length n , th	e worst case time	e required to search a given element is:
	(A)	O(n)	(B)	O(2n)
	(C)	$O(\log_2 n)$	(D)	$O(\log_2 2n)$
49.	The chara	acteristic of the elements tha	nt is maximum u	tilised in binary search is :
	(A)	Length of the list	(B)	Number of elements in the list
	(C)	Order of the list	(D)	Highest value in the list
50.	For a bin And that is:	nary tree with nine nodes, to of postorder traversal is: D	he result of inor BGEHIFC	der traversal is: DBAGECHFI A. Then the result of preorder traversal
	(A)	ABDCEGFHI	(B)	ABDECFGHI
	(C)	ADBCEFGHI	(D)	ADBEFCGHI

51. The communication device that uses spanning tree algorithm to avoid loops:				
	(A)	Router	(B)	Gateway
	(C)	Bridge	(D)	Switch
52.	Delaying called:	an outgoing control frame in o	rder to hook	onto the next outgoing data frame is
	(A)	Packet Sniffing	(B)	Compounding
	(C)	Optimal Routing	(D)	Piggy Backing
53.	Dijkstra's	algorithm facilitates:		
	(A)	Multipathing	(B)	Shortest Path Routing
	(C)	Isolated Routing	(D)	Centralised Routing
54.	The OSI	Layer in which the auto negation	resides is :	
	(A)	Physical	(B)	Network
	(C)	Transport	(D)	Data Link
55.	The trans	mission media that uses BNC co	onnector is:	
	(A)	Coaxial Cable	(B)	UTP
	(C)	STP	(D)	Optical Fiber
56.	The mode	of communication used in a seri	al communic	eation channel is :
	(A)	Simplex	(B)	Half Duplex
	(C)	Full Duplex	(D)	Both (B) and (C)
57.	The comn	nunication standard for a wireles	s network is	specified by:
	(A)	802.11	(B)	802.21
	(C)	802.8	(D)	802.12
58.	The FDD	I network is an example of:		
	(A)	Bus.	(B)	Star
	(C)	Ring	(D)	Mesh
59.	A standar	rd protocol for packet switching i	s:	
	(A)	POTS	(B)	SMTP
	(C)	PSTN	(D)	X.25

60.	The numb	er of bits in a MAC Address is:		
	(A)	32	(B)	48
	(C)	64	(D)	128
61.	Which of	the following is <i>not</i> a relational operat	or?	
	(A)	Difference	(B)	Addition
	(C)	Division	(D)	Selection
62.	In DBMS,	the front end application performs:		
	(A)	Storage function	(B)	Access control
	(C)	Processing function	(D)	All of the above
63.	In a table	, the relationship among a set of value	es are r	represented by:
	(A)	Tuple	(B)	Attribute
	(C)	Entity	(D)	Key
64.	The Scher	ma that provides a standard way of or	ganisir	ng information into accessible parts:
	(A)	logical	(B)	physical
	(C)	external	(D)	storage level
65.	The physi	cal location of a database record is de	termin	ed by a key transformation in:
	(A)	Index	(B)	Random
	(C)	Hash	(D)	Pointer
66.	Which of	the following is <i>not</i> a set operator in S	QL?	
	(A)	UNION	(B)	UNION ALL
	(C)	MINUS	(D)	LIKE .
67.	Which on	e of the following is a procedural langu	age?	
	(A)	Domain relational calculus	(B)	System-R
	(C)	Query language	(D)	Relational algebra
68.	A buffer t	hat has been changed in database buf	fer me	mory, but not yet written to disk is:
	. (A)	Swap space	(B)	Latch
	(C)	Redo Log	(D)	Dirty Block
69.		stamp ordering that makes no disting a single value is required for each gra		between the Read and Write access se
	(A)	Partial timestamp ordering	(B)	Total timestamp ordering
	(C)	Multi version timestamp ordering	(D)	Optimal timestamp ordering
132	/2015	10		

70.	The constraint specifying that account number must be in between 50000 and 80000 is a:				
	(A)	Integrity constraint	(B)	Referential constraint	
	(C)	Default constraint	(D)	Key constraint	
71.	In a Java	program, the length in pixel of a	string can b	pe obtained using the method:	
	(A)	stringwidth	(B)	strlength	
	(C)	length	(D)	strwidth	
72.	Select the	correct statement from the follow	wing:		
	(A)	char p = (char*)malloc(100);	(B)	char *p = (char) malloc(100);	
la beau	(C)	char p = (malloc(100));	(D)	char *p = (char*)malloc(100);	
73.	The states	ment that is least preferred in C	programs in	general is:	
	(A)	Recursion	(B)	Nesting of different type of loops	
	(C)	Double pointer	(D)	Unconditional Jump to a label	
74.	What will	be the output of following C++ p	rogram?		
1	#include<	iostream.h>			
	void main	()			
	{	TATE OF THE PROPERTY.			
		*cp="computer";			
	cp+= (*cp)				
		< <cp;< th=""><th></th><th></th></cp;<>			
	}				
	(A)	puter	(B)	mputer	
	(C)	nputer	(D)	quter	
75.	What will	be the output of following C++ p	rogram?		
	#include<	iostream.h>			
	void main	()			
	{				
		z=10, y=5, z;			
		+x+(++y) ++;			
	cout	< <z;< th=""><th></th><th></th></z;<>			
	}	15	(D)	16	
	(A)	15	(B)	16	
	(C)	17	(D)	18	

11

132/2015 [P.T.O.]

76.	In order interface	그리고 있다면 가장 생각하면 하고 있다면 하는 사람들이 되었다면 하는 사람들이 되었다면 하는데 되었다면 하는데 되었다면 하는데	, a Servelt	may use the methods defined in the
	(A)	servlet Info	(B)	servlet container
	(C)	Servlet Config	(D)	servlet context
77.		hod that can be used to pause hread completes its execution:	the curren	nt thread execution until and unless
	(A)	sleep	(B)	yield
	(C)	join	(D)	suspend
78.	Which Ja values?	va interface can be used to store	objects usin	ng a key-value pair, avoiding duplicate
	(A)	Java.util.Collection	(B)	Java.util.Set
	(C)	Java.util.List	(D)	Java.util.Map
79.	Which of	the following statement is false fo	or C++ progr	rams?
	(A)	Throw cannot be executed from	a function o	called from a try block
	(B)	Unhandled throw results in an	abnormal p	rogram termination
	(C)	Throw is a keyword for newer v	ersions of C	++ compiler
	(D)	Catch block may be selected by	matching da	ata type with the value given in throw
80.	Which of in C++?	the following data type can be	used along v	with switch statement for comparison,
	(A)	(int *)	(B)	double
	(C)	enum	(D)	struct
81.	67th can	Golden plan for best film given for	•	
	(A)	Goodbye to language	(B)	The Wonders
	(C)	Mister Turn	(D)	Winter Sleep
82.	The 'Ring	Spot Virus' is the most destructi	ve disease o	\mathbf{f} :
	(A)	Papaya	(B)	Banana
	(C)	Mango	(D)	Coffee
83.	The ratio	of width of our National Flag to i	ts length is	
	(A)	3:5	(B)	2:4
	(C)	2:3	(D)	3:4
132	/2015		12	A

84.	Prime Mi	nister Narendra Modi sworn is	s as the:	
	(A)	16th Prime Minister	(B)	15 th Prime Minister
	(C)	14 th Prime Minister	(D)	13th Prime Minister
85.	The fourt	h Chief Minister of Kerala :		
	(A)	EMS	(B)	Pattom Thanupillai
	(C)	R. Sankar	(D)	A.K. Antony
86.	Who is kr	nown as 'Indian Bismark?		
	(A)	Kamaraj	(B)	Nehru
	(C)	Sardar Vallabhai Patel	(D)	Rajaji
87.	Kerala Va	arma Pazhassi Raja was short	to death in :	
	(A)	1805, June 11	(B)	1805, July 7
	(C)	1805, October 30	(D)	1805, November 30
88.	Which of	the following is a biography of	the lady Moun	tbatten?
	(A)	Edwine Mountbatten		
	(B)	Edwine Mountbatten – A life	of her own	
	(C)	Edwine Mountbatten – Her r	elationship wi	th Nehru
	(D)	Mountbatten		
89.	Durant C	up is associated with:		
*	(A)	Volley ball	(B)	Foot ball
	(C)	Cricket	(D)	Hockey
90.	National	Maritime day follows on :		
	(A)	April 5	(B)	June 5
	(C)	October 5	(D)	September 5
91.	The temp	le entry proclamation of Sree C	hithira Thiru	nal was in the year:
	(A)	1933	(B)	1934
	(C)	1935	(D)	1936
92.	The ozone	layer restricts :		
	(A)	Visible light	(B)	Infrared radiation
	(C)	Ultraviolet radiation	(D)	X-rays and Gamma rays

93.	Each year	World Red Cross and Red Crescen	at day is:	
	(A)	May 8	(B)	May 28
	(C)	January 10	(D)	March 20
94.	The propo	sed Ken-Betwa river linking projec	ct is in whi	ch state?
	(A)	Maharashtra	(B)	Odisha
	(C)	Gujarat	(D)	Madhya Pradesh
95.	The upris	ing of 1857 was described as the fi	rst war of	Indian Independence by :
	(A)	B.G. Tilak	(B)	V.D. Savarkar
	(C)	S.N. Sen	(D)	R.C. Majumdar
96.	The title of in:	of 'Viceroy' was added to the office	of the Gove	ernor General of India for the first time
	(A)	1848	(B)	1856
	(C)	1858	(D)	1862
97.	Who amo	ng the following belong to Moderat	es?	
	(A)	B.G. Tilak	(B)	W.C. Banerjee
	(C)	Lala Lajpat Rai	(D)	Bipin Chandra Pal
98.	Cripps M	ission arrived in India in the year		
	(A)	1947	(B)	1946
	(C)	1942	(D)	1940
99.	The India	an who attended all the Three Rou	nd Table C	onference was:
	(A)	Dr. B.R. Ambedkar	(B)	Mahatma Gandhi
	(C)	Muhammad Ali Jinnah	(D)	Annie Besant
100.	Who is th	ne father of English poetry?		
	(A)	Milton	(B)	Wordsworth
	(C)	Charles Dickens	(D)	Chaucer