SAI WEB TECHNOLOGIES (P) LTD

					SECTION - A		<u>E)</u>		
1.	When n is divided by 4, the remainder is 3. What is the remainder when 2n is divided by 4? (a) 1 (b) 2 (c) 3 (d) 6								
2.	A bag contains 6 black & 8 white balls. One ball is drawn at random. What is the probability that it will be a white?								
	(a) 3/4	Ļ	(b) 4/7			(c) 1/8		(d) 3/7	
3.	In ho	w many ways c	an the letters of th	e word "LEAD	ER" be arranged	1? (a) 40 (l	b) 400 (c) 5040	0 (d) 2520	
4.	The la	ast day of the c	entury can't be ?	(a) Mon	day (b) Wed	nesday	(c) Frida	ay (d) Tue	esday
5.	A her	nisphere and co	one has equal bas	ses. If their hei	ghts are also eq		ratio of their curve	ed surfaces will be?	
	(a) 1:2		(b) 2:1			(c) 1:√2		(d) √2:	1
6.		angle the area	is numerically equ	ual to the perin	neter, then the ra	adius of the in	scribed circle of t	-	
	(a) 1		(b) 1.5			(c) 2		(d) 3	
7.		ircular wire of radius 42 cm is bent in the form of a rectangle whose sides are in the ratio of 6:5. The smaller side of the rectar				of the rectangle is ?			
-	(a) 25 cm (b) 30 cm (c) 36 cm			(d) 60 cm					
8.	What annual payment will discharge a debt of Rs. 1025 due in 2 year		25 due in 2 years				500 75		
	(a) Rs	. 550	(b) Rs. 5	51.25		(c) Rs. 560		(d) Rs. 560.75	
9.	Three	taps A , B & C	can fill a tank in 1	2, 15 & 20 hou	urs respectively.	If A is opened	d all the time and	B & C are opened t	for 1 hr each
				(a) 6 hrs	(b) 6.66		d) 7.5		
10.	4 mei	n and 6 women	can complete a w	vork in 8 days,	while 3 men and	d 7 women ca	an complete it in 1	10 days. In how mai	ny days can 10 women
	compl	ete it?	(a) 35 (b) 40	(c) 45 (d) 50				
Directior	ns(Qs 1	1 to 15): Study	the following tab	le carefully and	d answer the que	estions given	below it.		
			No. of Employee	s of various ca	ategories in Five	Factories			
Category		A	В	С	D	E			
Office	rs	270	220	160	310	165			
Supervisors		200	180	280	250	270			
Technic	ians	330	290	255	280	225			
Skille	d	150	130	110	125	95			
Labour		100	100	110	120				
Unskill	od	180	75	180	200	155			
Labour		100	75	100	200	100			
11.	In whi a) A	ch factory is the	e number of emplo b) B	yees in Techr	nicians category	the minimum' c) D	?	d) No	ne of these
12.	,	/ many factories	,	Supervisors a	and Technicians	,	nployees togethe	,	
	 In how many factories is the number of Supervisors and Technicians categories employees together more than 50% of the total employees of that factory? a) One b) Two c) Three d) Four 								
	 13. In which factory is the total number of employees the maximum? a) B b) C c) D d) E 14. In factory A, the number of employees in Officers' category was what percent of employees in Supervisor's? 								
	a) 135		b) 125			c) 24		d) 25	
15.	In wh a) A	icn tatory was t	he number of emp b) B	bioyees is skill	ea labourers' cat	egory exactly c) C	nait the number	of employees in Su d) D	pervisors' category?
	Fin		n of the following	<u>1:</u>		-) -		-, -	
16.	-	RATION	(b) equa	nimity		(c) humility		(d) car	e
17.	PANC	RAMIC							
		ensive	(b) pictu	resque		(c) distant		(d) ceremonial	
18.	WEB								

Find the	(a) erode Antonym of the following:	(b) create	(c) clothe	(d) lattice				
19.	TOUCHY (a) obedient	(b) fortunate	(c) genial	(d) sympathetic				
20.	UNACCOUNTABLE (a) desirable	(b) honest	(c) potent	(d) comprehensible				
	WIDEN (a) prevent right analogy of the followir	(b) compress <u>19:</u>	(c) encase	(d) hinder				
22.	concept is to notion as fixation (a) obsession	on is to: (b) idea	(c) intuition	(d) apprehension				
23.	confound is to bewilder as as (a) surprise	stound is to: (b) confuse	(c) startle	(d) astonish				
24.	corolla is to petals as pedicel (a) flower	is to: (b) stalk	(c) root	(d) leaves				
25.	FLOWER: SNEEZE:: (a) bunch: flower	:(b) colourful: pale	(c) garden: plants	(d) chocolate: scratch				
	SECTION – B (TECHNICAL)							
		<u>c</u>	Operating Systems					
26.			iction, which tells the central processo					
	ation code b) Addr		c) Locator d) Flip-Flo					
27. 10 a) 8	b) 1		that may be simultaneously inside the c) 16 d) 0	ell critical section is e) None of the above				
-	dressing structure		u) U	ej None of the above				
	fines the fundamental met	hod of determining effe	ctive operand addresses					
-			tures or some associated actions whic	h are related to addressing.				
			f the machine and leaves the result in					
d) All								
	29. The Memory Buffer Register (MBR)							
a) Is a hardware memory device which denotes the location of the current instruction being executed.								
-	b) Is a group of electrical circuits (hardware), that performs the intent of instructions, fetched from memory.							
c) Contains the address of the memory location that is to be read from or stored into.d) Contains a copy of the designated memory location specified by the MAR after a "read" or the new contents of the memory								
-		f the above	specified by the MAR after a Teau	of the new contents of the memory				
-	e Storage-to-Storage instru							
	result in the register, expect in the case of store operation when it is also written into the specified storage location.							
c) Wh	c) Which perform indicated operations on two fast registers of the machine and have the result in one of the registers							

d) All of the above e) None of the above

Data Structures & Algorithm

31. The memory address of fifth element of an array can be calculated by the formula

a) LOC(Array[5]=Base(Array)+w(5-lower bound), where w is the number of words per memory cell for the array

b) LOC(Array[5])=Base(Array[5])+(5-lower bound), where w is the number of words per memory cell for the array

c) LOC(Array[5])=Base(Array[4])+(5-Upper bound), where w is the number of words per memory cell for the array

d) None of above

32. Two dimensional arrays are also called

a) tables arrays	b) matrix arrays	c) both of abo

ve d) none of above

33. Which of the following statement is false?

a) Arrays are dense lists and static data structure
b) data elements in linked list need not be stored in adjacent space in memory
c) pointers store the next data element of a list
d) linked lists are collection of the nodes that contain information part and next
pointer

34. Each data item in a record may be a group item of	composed of sub-itams: those	itoms which are indec	omposablo aro callod				
	-	d) all of above	omposable are called				
a) elementary items b) atoms	c) scalars	u) all of above					
-	35. A variable P is called pointer if						
	 a) P contains the address of an element in DATa) b) P points to the address of first element in DATA c) P can store only memory addresses d) P contain the DATA and the address of DATA 						
c) P can store only memory addresses	-	u the address of DATA					
36. The difference between linear array and a record							
a) An array is suitable for homogeneous data but the		ve different data type					
b) In a record, there may not be a natural ordering in opposed to linear array.							
c) A record form a hierarchical structure but a linear array does not d) All of above							
37. Which of the following name does not relate to s		al) Durah, alauna Kata					
a) FIFO lists b) LIFO list	c) Piles	d) Push-down lists					
38. Which of the following is not the required condit							
	irect access to the middle eler						
c) There must be mechanism to delete and/or insert e	-	oove					
39. Which of the following is not a limitation of binar							
a) must use a sorted array b) requirement of sorte		t of insertion and dele	tions are needed				
c) there must be a mechanism to access middle eleme	-						
d) binary search algorithm is not efficient when the d		000.					
	Programming Languages						
40. Which of the following are valid characters for a							
a) a comma b) a dollar sign (\$)	c) a percent sign (%)	d) a space	e) None of the above				
41. A function that changes the state of the cout obj							
a) member b) adjuster	c) manipulator	d) operator					
42. Format flags may be combined using							
a) the bitwise OR operator () b) the logical OR operator by the logical OR operator by the logical OR operator		ND operator (&) d) th	e logical AND operator (&&)				
43. To be called object-oriented, a programming lang							
 a) functions that return only a single value 	b) #include files	c) inheritance	d) All of the above				
	Basic Networking Concepts						
44. Ethernet frame consists of							
a) MAC address b) IP address	c) both (a) and (b)	d) none of the ment	tioned				
45. MAC address is of							
a) 24 bits b) 36 bits	c) 42 bits	d) 48 bits					
46. High speed Ethernet works on							
a) coaxial cable b) twisted pair cable	c) optical fiber	d) none of the ment	tioned				
47. DHCP (dynamic host configuration protocol) prov	vides to the client.						
a) IP address b) MAC address	c) url	d) none of the ment	tioned				
48. Physical or logical arrangement of network is							
a) Topology b) Routing	c) Networking	d) None of the men	tioned				
	Microprocessor						
49. The devices that provide the means for a comput	ter to communicate with the ι	iser or other computer	rs are referred to as:				
a) CPU b) ALU	c) I/O	d) none of the abov	e				
50. The software used to drive microprocessor-based systems is called:							
a) assembly language b) firmware	c) machine language code	e d) BASIC interpreter	r instructions				