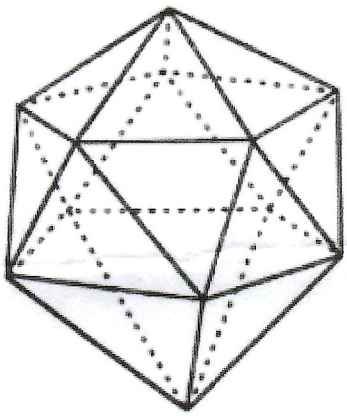
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PAPER 1

Note: Attempt all the questions.

	PART A			
1.	 How many triangles does the above three- dimensional figure have?			
	(A)	15	(B)	20
	(C)	22	(D)	27
2.	The next number in the series 2,6,12,20, ----- is			
	(A)	30	(B)	32
	(C)	28	(D)	36
3.	The next number in the series 3,6,11,18,27, ----- is			
	(A)	35	(B)	42
	(C)	36	(D)	38
4.	Select the option that is related to the third letter-group in the same way as the second letter-group is related to the first letter group. BANK : WXLJ :: IDOL : ?			
	(A)	ADKM	(B)	ADKJ
	(C)	DAMK	(D)	DAMJ
5.	12 14 16 5 9 6 10 16 ? 50 110 84 Select the missing number from the following?			
	(A)	10	(B)	8
	(C)	16	(D)	12
6.	The present age of three persons is in the proportion of 5 : 8 : 7. Ten years ago, the sum of their ages was 96. What is the present age of the youngest person?			

	(A)	22 years	(B)	31 years
	(C)	40 years	(D)	18 years
7.	A and B can separately complete a piece of work in 20 days and 30 days respectively. They worked together for some time, then B left the work. If A completed the rest of the work in 10 days, then B worked for ?			
	(A)	10 days	(B)	8 days
	(C)	6 days	(D)	10 days
8.	If A and B together can complete a work in 18 days, A and C together in 12 days and B and C together in 9 days, then B alone can do the work in			
	(A)	24 days	(B)	18 days
	(C)	30 days	(D)	40 days
9.	Half of 1 per cent, written as a decimal, is			
	(A)	0.05	(B)	0.005
	(C)	0.02	(D)	0.2
10.	If 8% of x is the same as 4% of y, then 20% of x is the same as			
	(A)	16% of y	(B)	10% of y
	(C)	40% of y	(D)	70% of y
11.	In how many different ways can the letters of the word 'QROBLEN' be arranged ?			
	(A)	5040	(B)	5060
	(C)	720	(D)	960
12.	In how many different ways can the letters of the word 'PRUSP' be arranged?			
	(A)	180	(B)	120
	(C)	80	(D)	60
13.	By selling an item for Rs. 960 a boy incurs a loss of 4%; what was the cost price ?			
	(A)	Rs. 568	(B)	Rs. 1,268
	(C)	Rs. 1,000	(D)	Rs. 784
14.	A truck moving at a speed of 45 km/hr overtakes a bus 150 metres ahead going in the same direction in 30 seconds. The speed of the bus is			
	(A)	27 km/hr	(B)	28 km/hr
	(C)	24 km/hr	(D)	25 km/hr
15.	Find the odd one out from the given set of numbers. 14, 28, 35, 46, 56, 63, 84			

	(A)	46	(B)	56
	(C)	28	(D)	35
PART B				
16.	Who has written Shri Ramcharitmanas?			
	(A)	Surdas	(B)	Ravidas
	(C)	Kabirdas	(D)	Tulsidas
17.	In which state is the Golden Temple?			
	(A)	Tamilnadu	(B)	Delhi
	(C)	Punjab	(D)	Uttar Pradesh
18.	Which state of India celebrates the Flamingo festival?			
	(A)	Goa	(B)	Andhra Pradesh
	(C)	Karnataka	(D)	Gujrat
19.	Onam is a cultural festival celebrated mostly by the people of			
	(A)	Karnataka	(B)	Andhra Pradesh
	(C)	Kerala	(D)	Tamilnadu
20.	"281 and Beyond" is a book written by			
	(A)	Sunil Gavskar	(B)	Sachin Tendulkar
	(C)	Ravi Shashtry	(D)	VVS Laxman
21.	Fatehpur Sikri was founded as the capital of the Mughal Empire in 1571 by the Emperor.....			
	(A)	Babar	(B)	Akbar
	(C)	Jahangir	(D)	Humanyun
22.	What is the name of the weak zone of the earth's crust?			
	(A)	Seismic	(B)	Formic
	(C)	Anaemic	(D)	Cosmic
23.	India's first National Museum of Indian Cinema was inaugurated recently in			
	(A)	Mumbai	(B)	Noida
	(C)	Pune	(D)	Mohali
24.	Whom of the following is a Bharat Ratna recipient?			

	(A)	Murli Manohar Joshi	(B)	Narendra Modi
	(C)	Ratan Tata	(D)	Pt. Madan Mohan Malaviya
25.	..... was a world-renowned Indian sitar virtuoso.			
	(A)	Alla Rakha	(B)	Ravi Shankar
	(C)	Zakir Hussain	(D)	Bismillah Khan
26.	The antonym of MASSIVE is			
	(A)	Little	(B)	Lump sum
	(C)	Gaping	(D)	Strong
27.	The ..... apparition stalked Reshma for days and ultimately threw her off the cliff.			
	(A)	benevolent	(B)	callous
	(C)	magnanimous	(D)	vindictive
28.	It was very cold outside, and the fire we lit was dimming down; hence I decided to ..... it a bit.			
	(A)	increase	(B)	soak
	(C)	stoke	(D)	strike
29.	One who collects coins is called			
	(A)	Numismatist	(B)	Narcissist
	(C)	Calligrapher	(D)	Collector
30.	One who talks while asleep is called			
	(A)	Somnambulist	(B)	Somniferous
	(C)	Somniloquist	(D)	Somnitalker
	PART C			
31.	Which of the following system calls transforms an executable binary file into a process?			
	(A)	fork	(B)	ioctl
	(C)	longjmp	(D)	exec
32.	Which of the following is known as clipping in computer graphics?			
	(A)	copying	(B)	removing objects and lines
	(C)	zooming	(D)	adding graphics

33.	For getting the mirror image of a triangle, which of the following transformations is needed?			
	(A)	rotation	(B)	rotation and scaling both
	(C)	scaling	(D)	reflection
34.	A stereoscopic system in which users can step into a scene and interact with environment is called			
	(A)	touch screen	(B)	mouse
	(C)	virtual reality	(D)	simulation
35.	In which part of the HTML file metadata is contained?			
	(A)	head tag	(B)	title tag
	(C)	body tag	(D)	HTML tag
36.	Fuzzy logic is usually represented as			
	(A)	IF-THEN rules	(B)	IF-THEN-ELSE rules
	(C)	Both IF-THEN rules and IF-THEN-ELSE rules	(D)	IF rules
37.	Simple network management protocol operates at which port number?			
	(A)	160	(B)	161
	(C)	163	(D)	164
38.	What is the output of lexical analyser?			
	(A)	tokens	(B)	data types
	(C)	program	(D)	code
39.	How many states of DFA can be obtained from an NFA with n states?			
	(A)	n/2	(B)	n
	(C)	2^n	(D)	4n
40.	Which of the following is a memory element?			
	(A)	NAND Gate	(B)	NOT gate
	(C)	NOR Gate	(D)	SR flip- flop
41.	C was primarily developed as			
	(A)	system programming language	(B)	machine language
	(C)	general purpose language	(D)	data processing language

42.	Which of the following traversal techniques lists the nodes of binary search tree in ascending order?			
	(A)	preorder	(B)	postorder
	(C)	inorder	(D)	none of these
43.	Which of the following sorting algorithms has the worst time complexity of O(n log n)?			
	(A)	quick sort	(B)	heap sort
	(C)	selection sort	(D)	insertion sort
44.	For merging two sorted lists of sizes m and n into a sorted list of size m + n, how many comparisons are required?			
	(A)	O(n)	(B)	O(m)
	(C)	O(log n + log m)	(D)	O(n + m)
45.	Which of the following algorithm design techniques is used in the quick sort algorithm?			
	(A)	dynamic programming	(B)	greedy method
	(C)	divide and conquer	(D)	backtracking
46.	On what type of switching does the internet work?			
	(A)	packet	(B)	circuit
	(C)	bit	(D)	line
47.	Project risk factor is considered in			
	(A)	waterfall model	(B)	spiral model
	(C)	prototyping model	(D)	iterative enhancement model
48.	Which of the following is not a primitive data type in JAVA?			
	(A)	Boolean	(B)	String
	(C)	Byte	(D)	Double
49.	Which of the following can be used to track the tasks of a project, when the estimation of task time is fairly uncertain?			
	(A)	Decision table	(B)	DFD
	(C)	Case tools	(D)	PERT
50.	Which of the following protocols may be used for accessing the World Wide Web?			
	(A)	HTTP	(B)	SLIP
	(C)	SMTP	(D)	None of the above