M.VOC MOBILE PHONE APPLICATION DEVELOPMENT (FINAL)

1. Analytic function with constant real part is

- (A) constant
- (B) modulus
- (C) imaginary
- (D) analytic

2. If f(z) and g(z) are analytic, then f(z)+g(z) is

- (A) analytic
- (B) differentiable
- (C) integrable
- (D) not analytic

3. Let $z = \frac{1}{\sqrt{2}} + \frac{i}{\sqrt{2}}$. Then $z^5 + \frac{1}{z^5}$ is

- (A) $\cos \frac{3\pi}{4}$
- (B) $2\cos\frac{5\pi}{4}$
- (C) $2\sin\frac{5\pi}{4}$
- (D) $\sin \frac{5\pi}{4}$

4. A function f(z) which is analytic everywhere in the finite plane except at infinity is called

- (A) an entire function
- (B) a meromorphic function
- (C) an annulus
- (D) a mimicus

- 5. The pole and its order of the function $f(z) = \frac{\sin z}{z^4}$ are respectively
 - (A) 4, 0
 - (B) 0, 4
 - (C) 2, 4
 - (D) 1, 4
- 6. Number of real solutions of the equation $x^3 1 = 0$ is
 - (A) 3
 - (B) 2
 - (C) 1
 - (D) 0
- 7. The sum of the squares of the eigen values of $A = \begin{pmatrix} 3 & 1 & 4 \\ 0 & 2 & 6 \\ 0 & 0 & 5 \end{pmatrix}$ is
 - (A) 36
 - (B) 10
 - (C) 8
 - (D) 38
- 8. Two vectors X_1 and X_2 are orthogonal if
 - $(A) \quad X_1^T X_2^T = I$
 - (B) $X_1^T X_2 = 0$
 - $(C) \quad X_1^T X_2 = I$
 - $(D) \quad X_1^T X_2^T = 0$
- 9. The eigen values of a matrix are 0, 1, 2. Then the matrix A is a
 - (A) non singular matrix
 - (B) unit matrix
 - (C) diagonal matrix
 - (D) singular matrix

- 10. If A is a symmetric matrix, then
 - (A) $A = A^{-1}$
 - (B) |A| = 0
 - (C) $A = A^T$
 - (D) $A = -A^T$
- Curvature of a straight line is 11.
 - (A) 1
 - (B) 0
 - (C) -1
 - (D) ω
- If $u = e^x \cos y$, then $x^3 \frac{\partial^2 u}{\partial x^2} =$ 12.
 - (A) 0
 - (B) $x^2e^x \sin y$

 - (D) $x^3 e^x \cos y$
- The solutions of the equation x(10x-1) = 2 are 13.
 - (A) x = 0 or 0.1 (B) x = 2 or 0.3 (C) x = 0.5 or -0.4

 - (D) x = -0.5 or 0.4
- A Bernoulli equation is given by $\frac{dy}{dx} + P(x)y = Q(x)y^n$. Then
 - (A) $n ext{ is } 0$
 - (B) *n* is 1
 - (C) n is a real number
 - (D) n is any real number but not 0 or 1

- 15. If *n* is a natural number, then the sixth term of the sequence $x_n = 4 \times (0.5)^n$ is
 - (A) 0.125
 - (B) 1
 - (C) 64
 - (D) 0.0625
- 16. Which of the following holds true for a vector quantity?
 - (A) A vector has only magnitude
 - (B) A vector has only direction
 - (C) A vector has both magnitude and direction
 - (D) A vector can never be negative
- 17. Let *A* and *B* be two square matrices of order *n* and let *A'* be the transpose of *A*. Then which of the following is **NOT** true?
 - (A) (A')' = A
 - (B) (A + B)' = A' + B'
 - (C) (AB)' = (BA)'
 - (D) (kA)' = KA'
- 18. Eigen values for the matrix $\begin{bmatrix} 4 & 0 & 0 \\ 0 & -5 & 3 \\ 0 & -3 & 1 \end{bmatrix}$ are
 - (A) -4, 2, -2
 - (B) -4, -2, -2
 - (C) -2, -2, 4
 - (D) 2, 2, -4
- 19. Which of the following is **NOT** an example for a curve which is symmetric about *y*-axis?
 - $(A) \quad x^2 = 4ay$
 - (B) $x^2 = ay$
 - (C) $x^2 = 4ax$
 - (D) $x^2 = 2ay$

- 20. $\lim_{x\to 0} \frac{25}{x}$ is equal to
 - (A) 0
 - (B) 25
 - (C) $\frac{1}{2}$
 - (D) $\frac{3}{2}$
- 21. Which of the following is an example of non-linear differential equation?
 - (A) y' = mx + c
 - (B) x + x' = 0
 - (C) $x^4 + (y')^2 = 0$
 - (D) x'' + 2x = 0
- 22. Which of the following is **NOT** a standard method for finding the solutions of differential equations?
 - (A) Variable Separable
 - (B) Homogenous equation
 - (C) Orthogonal method
 - (D) Bernoulli's equation
- 23. If X is a random variable, taking values x, probability of success and failure being p and q respectively and n trials being conducted, then is the probability that X takes values x using Binomial distribution, is
 - (A) $P(X = x) = {}^{n}C_{x}p^{x}q^{x}$
 - (B) $P(X = x) = {}^{n}C_{x}p^{x}q^{(n-x)}$
 - (C) $P(X = x) = {}^{x}C_{n}q^{x}p^{(n-x)}$
 - (D) $P(X = x) = {}^{n}C_{x}p^{n}q^{x}$

- 24. If ${}^{n}P_{r} = 3024$ and ${}^{n}C_{r} = 126$, then *n* and *r* respectively
 - (A) 9, 4
 - (B) 10, 3
 - (C) 12, 4
 - (D) 11, 4
- 25. The number of rectangles and squares in an 8 by 8 chess board respectively are
 - (A) 296, 204
 - (B) 1292, 204
 - (C) 204, 1092
 - (D) 204, 1296
- 26. A critical point to the function $f(x, y) = \sin(x) \cdot \cos(y)$ is
 - (A) $\left(\frac{\pi}{4}, \frac{\pi}{4}\right)$
 - (B) $\left(\frac{-\pi}{4}, \frac{\pi}{4}\right)$
 - (C) $\left(0, \frac{\pi}{2}\right)$
 - (D) (0,0)
- 27. The number of proper subsets of a given finite set with n elements is
 - (A) $2^n 2$
 - (B) $2^n 1$
 - (C) n+1
 - (D) 2n+1
- 28. If A and B are two subsets of a set X, then $A \cap (A \cup B)' =$
 - (A) A
 - (B) *B*
 - (C) ϕ
 - (D) A'

- 29. Let *n* be an integer and $f(t) = t^n$. Then the Laplace transform of f(t) is
 - (A) n!
 - (B) t^{n+1}
 - (C) $\frac{n!}{s^{n+1}}$
 - (D) $\frac{n^2}{s^2}$
- 30. The partial sums of the first n and n + 1 numbers of the Fibonacci sequence are both divisible by 11. The smallest value of n for which this is true is
 - (A) n = 8
 - (B) n = 10
 - (C) n = 11
 - (D) n = 9

31.	Whic	h CPU scheduling is suitable for time-sharing systems?
	(A)	shorted job first scheduling
	(B)	
	(C)	<u> </u>
	(D)	round robin scheduling
32.	One p	process communicating with other process in the Operating Systems environment
	is call	led as
	(4)	
	(A) (B)	
	(C)	-
	(D)	threading
22		
33.		iting process is never again able to change state, because, the resources it has
	reque	sted, are held by other waiting processes. This situation is called
	(A)	deadlock
	(B)	
	(C)	processor
	(D)	CPU
34.	Addre	ess generated by the CPU is commonly referred to as a logical address,
		eas address seen by the memory unit is referred as
	(A)	
	(B) (C)	physical address local address
	(D)	universal address
	\ /	
2 =		
35.		najor advantage of is that programs can be larger than
	physi	cal memory.
	(A)	cache memory
	4000	non cache memory
	(C)	virtual memory
	(D)	all cache memory
36.	Whic	h type of network is used for small geographical area such as in a one building?
	(A)	WLAN
	(B)	LAN
	(C)	MAN
	(D)	WAN

37.		IPv4 addressing format, the number of networks allowed under C addresses is
	(A) (B) (C) (D)	2^7 2^21
38.	Which	n of the following transport layer protocols is used to support electronic mail?
	(A) (B) (C) (D)	SMTP IP TCP UDP
39.	What	do you mean by broadcasting in Networking?
	(A) (B) (C) (D)	Addressing a packet to all machine Addressing a packet to some machine Addressing a packet to a particular machine Addressing a packet to except a particular machine
40.	An att	tempt to make a computer resource unavailable to its intended users is called
	(A) (B) (C) (D)	denial-of-service attack virus attack worms attack botnet process
41.		n representation is most efficient to perform arithmetic operations enumbers?
	(A) (B) (C) (D)	Sign- magnitude 1's compliment 2's compliment 9's compliment
42.	Which	n of the following defines a class?
	(A) (B) (C) (D)	Parent of an object Instance of an object Blueprint of an object Scope of an object

43.	All m	ember functions of a local class must be									
	(
	(A)	•									
	(B)	defined outside the function definition									
		defined inside the class body									
	(D)	defined at starting of program									
44.	Which	n type of program is recommended to include in try block?									
	(A)	Static memory allocation									
	(B)	Dynamic memory allocation									
	` /	Const reference									
		Pointer									
	, ,										
45.		may be used to model the processing of data,									
	where	e each activity represents one process step.									
	(A)	Activity diagrams									
	` ′	Structural models									
		Behavioral models									
	(D)	State diagrams									
46.	What	is the worst case complexity of bubble sort?									
	what is the worst case complexity of bubble soft?										
	(A)	$O(n \log n)$									
	(B)	$O(\log n)$									
	(C)	O(n)									
	(D)	$O(n^2)$									
	(D)	O(n)									
477	*****										
47.		n of the following is the most commonly used data structure									
	for im	plementing Dijkstra's Algorithm?									
	(A)	Max priority queue									
	(B)	Stack									
	A 100	Circular queue									
	(D)	Min priority queue									
	* /	r									
48.	To ac	cess the services of the operating system, the interface is provided by the									
	(I there are									
	(A)	Library									
	(B)	System calls Assembly instructions									
	(C)	Assembly instructions									
	(D)	API									

49.	Arrar	nge the tasks involved in requirements elicitation in an appropriate manner.
	Ι	Consolidation
	II	Prioritization
	III	Requirements Gathering
	IV	Evaluation
	(A)	III, I, II, IV
	(B)	
	(C)	III, II, IV, I
	(D)	III, IV, II, I
50.	In DI	MA transfers, the required signals and addresses are given by the
	(A)	processor
	(B)	
	(C)	DMA controllers
	(D)	the program itself
51.	What	t will be the height of the hash tree with branching factor 2 and with 8 records?
	()	
	(A)	
	(B)	
	(C) (D)	
	(D)	
52.		n two or more bits in a data unit has been changed during the transmission,
	the e	rror is called
	(A)	burst error
	(B)	random error
	(C)	inverted error
	(D)	double error
	A	
53.	Packe	et sniffers involve
)
	(A)	Active receiver
	(B)	Legal receiver
	(C)	Passive receiver
	(D)	Partially-active receiver

54.	Select all the Clustering Algorithms from the given list below.	
	 I k – Means II DBSCAN III k – Nearest Neighbors IV Agglomerative Hierarchical Clustering V Naïve Bayes 	
	(A) I, III, V (B) I, II, IV (C) II, III, IV (D) III, IV, V	
55.	Find the 2's Complement for the given Binary Number:	K
	1111	
	(A) 0001	
	(B) 0111	
	(C) 1010	
	(D) 1001	
56.	What is the full form of CNN?	
	 (A) Convoluted Neural Network (B) Convolutional Neural Network (C) Computerised Neural Network (D) Comparative Neural Networking 	
57.	Which protocol establishes the initial logical connection between	
57.	a server and a client?	
<	 (A) Transmission control protocol (B) User datagram protocol (C) Datagram congestion control (D) Mount protocol 	
58.	The algorithm to remove and place new contents into the cache is called	
	 (A) deletion algorithm (B) renewal algorithm (C) replacement algorithm (D) updation 	

- 59. Depth First Search is equivalent to which of the traversal in the Binary Trees?
 - (A) Post-order Traversal
 - (B) Pre-order Traversal
 - (C) Level-order Traversal
 - (D) In-order Traversal
- 60. Which was the first purely object oriented programming language developed?
 - (A) SmallTalk
 - (B) Kotlin
 - (C) C++
 - (D) Java

Direction: Read the following passage carefully and answer the questions given below.

I felt the wall of the tunnel shiver. The master alarm squealed through my earphones. Almost simultaneously, Jack yelled down to me that there was a warning light on. Fleeting but spectacular sights snapped into ans out of view, the snow, the shower of debris, the moon, looming close and big, the dazzling sunshine for once unfiltered by layers of air. The last twelve hours before re-entry were particular bone-chilling. During this period, I had to go up in to command module. Even after the fiery re-entry splashing down in 81° water in south pacific, we could still see our frosty breath inside the command module.

- 61. The word 'Command Module' used twice in the given passage indicates
 - (A) an alarming journey
 - (B) a commanding situation
 - (C) a journey into outer space
 - (D) a frightful battle
- 62. Which one of the following reasons would one consider as more as possible for the warning lights to be on?
 - (A) There was a shower of debris
 - (B) Jack was yelling
 - (C) A catastrophe was imminent
 - (D) The moon was looming close and big

- 63. The statement that the dazzling sunshine was "for once unfiltered by layers of air" means
 - (A) that the sun was very hot
 - (B) that there was no strong wind
 - (C) that the air was unpolluted
 - (D) None of the above

Direction: Read the following passage carefully and answer the questions given below.

Laws of nature are not commands but statements of acts. The use of the word "law" in this context is rather unfortunate. It would be better to speak of uniformities in nature. This would do away with the elementary fallacy that a law implies a law giver. If a piece of matter does not obey a law of nature it is punished. On the contrary, we say that the law has been incorrectly stated.

- 64. If a piece of matter violates nature's law, it is not punished because
 - (A) it is not binding to obey it
 - (B) there is no superior being to enforce the law of nature
 - (C) it cannot be punished
 - (D) it simply means that the facts have not been correctly stated by law
- 65. Laws of nature differ from man-made laws because
 - (A) the former state facts of Nature
 - (B) they must be obeyed
 - (C) they are natural
 - (D) unlike human laws, they are systematic
- 66. The laws of nature based on observation are
 - (A) conclusion about the nature of the universe
 - (B) true and unfalsifiable
 - (C) figments of the observer imagination
 - (D) subject to change in the light of new facts
- 67. The author is not happy with word 'law' because
 - (A) it connotes rigidity and harshness
 - (B) it implies an agency which has made them
 - (C) it does not convey the sense of nature's uniformity
 - (D) it gives rise to false beliefs

Direction: Read the following passage carefully and answer the questions given below.

The Indian middle class consist of so many strata that it defies categorisation under a single term class, which would imply a considerable degree of homogeneity. Yet two paradoxical features characterise its conduct fairly uniformly; extensive practice and intensive abhorrence of corruption.

In the several recent surveys of popular perceptions of corruptions, politicians of course invariably and understandably top the list, closely followed by bureaucrats, policemen, lawyers, businessmen and others. The quintessential middle class. If teachers do not figure high on this priority list, it is not for lack of trying, but for lack of oppurtunities. Over the years, the sense of shock over acts of corruption in the middle class has witnessed a steady decline, as its ambitions for a better material life have soared but the resources for meeting such ambitions have not kept pace.

What is fascinating, however, is the intense yearning of this class for a clean corruptionless politics and society, a yearning that has again and again surfaced with any figure public or obscure, focus on his mission of eradicating corruption. Even the repeated failure of this promise on virtually every man's part has not subjected it to the law of diminishing returns.

- 68. The intense Middle Class intensely yearns for
 - (A) better material resources
 - (B) extensive practice of corruption
 - (C) clean honest society
 - (D) law of increasing returns
- 69. Teachers are not high on the list of corruption because they do not have
 - (A) courage
 - (B) opportunities
 - (C) support
 - (D) ambition
- 70. The Indian Middle class is
 - (A) defiant
 - (B) mysterious
 - (C) homogeneous
 - (D) stratified

71.	Who	figure on top of the list of corruption?
	(A)	Businessmen
	(B)	Lawyers
	(C)	·
	(D)	Policemen
72.	This y	yearning, over the years, has
	(A)	±
	(B)	soared
	(C)	
	(D)	disappeared
73.	Choo	se the correct option.
13.	CHOO	se the correct option.
	Vain	and prone to violence, Caravaggio could not handle success: the more his
		as an artist increased, the more his life became.
	(A)	
	(B)	
	(C)	
	(D)	notoriety, temperance
74.	Choo	se the correct option.
,	CHOO	se the correct spinons
	He go	bes Sunday church, and sits the boys.
	(A)	
	(B)	by, to, in
		on, in, beside
	(D)	to, on, over
75.	Choo	se the correct option.
_		
	The n	ews about the bank threw the financial market into a
	(A)	fraud, turmoil
	(B)	account, epidemic
	(C)	cheating, confidence
	(D)	safety, suspicion

7.6										
76.	Identify the meaning of the underlined part of the sentence.									
	Many of the workers demurred at working on Sundays and other holidays.									
	 (A) demanded extra wages (B) agreed enthusiastically (C) expressed willingness (D) showed reluctance 									
77.	Identify the meaning of the underlined part of the sentence.									
	The nights are clear but suffused with sloth and sullen expectation									

(A) covered

- (B) coloured
- (C) spread over
- (D) filled
- 78. Select the most appropriate meaning of the idiom/phrase underlined.

"Between the devil and deep sea"

- (A) To be in temper
- (B) To be in dilemma
- (C) To choose correctly
- (D) To live dangerously
- 79. Select the synonym of the capitalized word.

DOLEFUL

- (A) Mournful
- (B) Bright
- (C) Jovial
- (D) Colourful
- 80. Select the synonym of the capitalized word.

MOTTLE

- (A) Spoil
- (B) Mark with spots
- (C) Erase
- (D) Mellow

81.	Fill in	the blanks.
		Won't they travelling for two weeks by then?
	(B) (C)	has been will have been had been have been
82.	Select	t the correct tense to complete the sentence.
		I finally reached my mom her all day.
	(B) (C)	I'd been calling I have called I called I was calling
83.	Choos	se the option that best fits the sentence.
		He went with younger sisters.
	` /	his both
		both his
	(D)	two his only his
84.	Choo	se the correct meaning of the phrase.
	(A) (B) (C) (D)	To make clean breast of To gain prominence To praise oneself To confess without of reserve To destroy before it blooms
85.	Choos	se the correct meaning of the phrase.
		To keeps one's temper
	(A)	To become hungry
	(B)	To be in good mood
	(C)	To preserve ones energy
	(D)	To be aloof from

		To catch a tartar
	(A) (B) (C) (D)	To trap wanted criminal with great difficulty To catch a dangerous person To meet with disaster To deal with a person who is more than one's match
87.	Choos	se the correct meaning of the phrase.
		To drive home
	(A) (B) (C) (D)	To find one's roots To return to place of rest Back to original position To emphasise
88.	Choos	se the correct meaning of the phrase.
		To have an axe to grind
	(A) (B) (C) (D)	A private end to serve To fail to arouse interest To have no result To work for both sides
89.	Choos	se the option that best fits the sentence.
	(A) (B) (C) (D)	It looks like our fears are coming true. bad worse worst worsen
90.	Choos	se a correct meaning for the underlined part of the sentence.
;	She w	ras ridiculed for waving her hand <u>histrionically</u> while speaking to her parents.
	(A) (B) (C) (D)	Dramatically Referring to history In a lunatic Vehemently

86.

Choose the correct meaning of the phrase.

Se	lect correct pattern that replaces the ?.
	EWE WWW EME M ; M
(I) (()	A)
	ook carefully at the sequence of symbols to find the pattern. lect correct pattern that replaces the ?.
	○○• ▲△△ □?
(1	A) 🔲 🗆
	B)
((
(I	
	ook carefully at the sequence of symbols to find the pattern. lect correct pattern that replaces the ?.
	Δ Δ

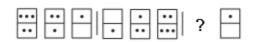
Look carefully at the sequence of symbols to find the pattern.

91.

94.	Look carefully at the sequence of symbols to find the pattern. Select correct pattern that replaces the ?.



95. Look carefully at the sequence of symbols to find the pattern. Select correct pattern that replaces the ?.



Direction: Study the information and answer the questions.

J	A	U	N	K	В	I	D	Н	L	0	C	E	M	F	P
@	1	*	5	#	7	?	9	\$	••	&	3	%	2	+	=

If first and last letter is vowel then both are interchanged their respective codes.

If first letter is vowel and the last letter is consonant then both are codes as middle letter of the word.

If first letter is consonant and last letter vowel is then both are codes as "9".

If first letter and last letter is consonant then both are codes as adjacent letters.

96. What is the coded pattern of CKNUP?

- (D) ##5**
- 97. What is the coded pattern of AMJDO?
 - (A) &29#1
 - (B) 12@9&
 - (C) &2@91
 - (D) 22@91

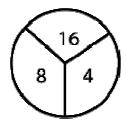
98.	What	What is the coded pattern of BLEFU?				
	(A)	7!%+*				
	(B)	9%%+9				
	(C)	9!*+9				
	(D)	9!%+9				
99.	What	That is the coded pattern of INEHC?				
	(A)	%5%\$?				
	(B)	%5\$\$%				
	(C)	%5%\$%				
	(D)	%9%\$%				
100.	What	is the possible word of the code?				
		*5*3*				
	(A)	ANUKF				
	(B)	ANECF				
	(C)	BNUCF				
	(D)	ANUCF				
Direct	tion: St	and the information and answer the questions.				
Direct						
	"Payn	nents gets fully disclosed" is coded as 'mar par wed lim'				
	"Fully	more have reforms" is coded as 'par jat yar kar'				
	"Cash	gets have given" is coded as 'limgurhal yar'				
	"More	e legal cash board" is coded as 'jar wel pal hal'				
101.	What	does the code 'hal' represent?				
	(A)	More				
	(B)	Board				
	(C)	Have				
	(D)	Cash				

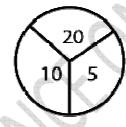
102.	What	is the code for the word 'gets'?						
	(A)	hal						
	(B)	lim						
	(C)	mar						
	(D)	kar						
	()							
103.	What	does the 'par' represents?						
	(A)	Disclosed						
	(B)	Fully						
	(C)	Reforms						
	(D)	Both (A) and (C)						
104	****							
104.	What	is the code for the word 'given'?						
	(A)	hal						
	(B)	kar						
	(C)	lim						
	(D)	gur						
105.	What	may be the code for 'legal gets'?						
	(A)	wel wed						
	(B)	pal wed						
	(C)	·						
	(D)	None of the above						
106.	If I ID	OMETER is coded as DUMOTERE then how will SUBLEASE be coded?						
100.	пор	POWETER IS could us DOWOTERE then now will SUBLEMBE be could.						
	(A)	UBLBESAE						
	(B)	USLBAEES						
		USBAELES						
	(D)	USLBEAES						
	1							
107.	PROM	MOTION is written in a certain coded message as QSP89,						
107.	497	what will be the code for DEMOTION?						
	then v	what will be the code for DEWOTTON:						
	(A)	EG89						
	(B)	DE89						
	(C)	DE117						
	(D)	EF89						

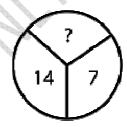
- 108. If Pen is coded as Pencil, Pencil as Chalk, Chalk as Slate, Slate as Paper, then by which do you mostly write?
 - (A) Pen
 - (B) Chalk
 - (C) Pencil
 - (D) Slate
- 109. Find which option will substitute the question mark.

AC EG BD FH IK ??

- (A) IJ
- (B) OP
- (C) JL
- (D) JK
- 110. Which one from the given alternative will replace the question mark?







- (A) 22
- (B) 24
- (C) 28
- (D) 27
- 111. Look carefully at the sequence of symbols to find the pattern. Select correct alternative that replaces the ?.

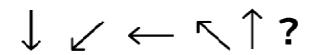
$$C^3F^6$$
 L^{12} ?

- (A) 0^{13}
- (B) Q^{17}
- (C) P^{15}
- (D) 0^{15}
- 112. A river flows west to east and on the way turns left and goes in a semi-circle round a hillock, and then turns left at right angles. In which direction in the river finally flowing?

- (A) West (B) East (C) North (D) South



113. Find which option will substitute the question mark.



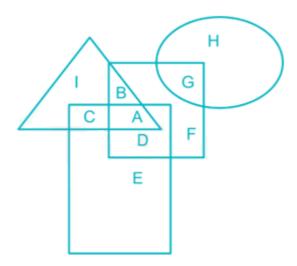
- $(A) \longrightarrow$
- (B) ****
- (C)
- (D) /

114. Find which option will substitute the question mark.

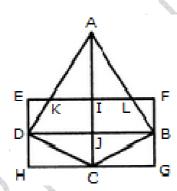


- (A) **2**
- (B)
- (C)
- (D)

115. In the following figure, square represents Teachers, triangle represents swimmers, circle represents Nurses and rectangle represents Women. Which set of letters represents Teachers who are either swimmers or nurses?



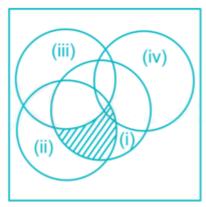
- (A) D, F
- (B) A, B, D, F, G
- (C) A, B, G
- (D) I, C, H
- 116. How many triangles are there in the figure given below?



- (A) 15
- (B) 14
- (C) 13
- (D) 12

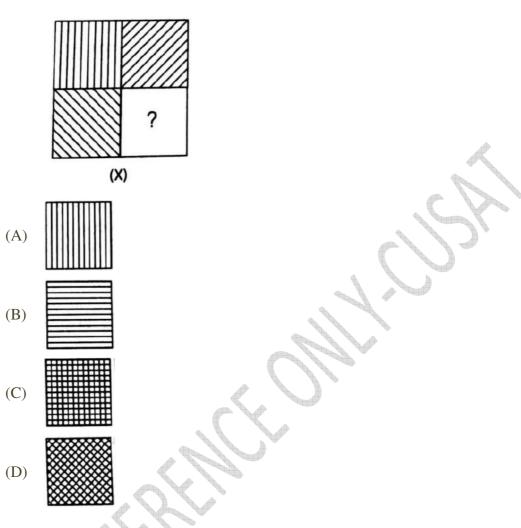
- 117. The following diagram represents people who speak different languages.
 - (i) Kannada
 - (ii) English
 - (iii) Hindi
 - (iv) Marathi

What does the shaded area include?

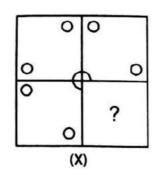


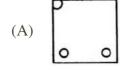
- (A) People who speak Kannada and English
- (B) People who speak English and Hindi
- (C) People who speak Kannada, English and Hindi
- (D) People who speak Kannada, English and Marathi
- 118. All the faces of a cube are painted with blue color. Then it is cut into 125 small equal cubes. How many small cubes will be formed having only one face colored?
 - (A) 54
 - (B) 45
 - (C) 57
 - (D) 55

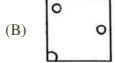
119. Select a figure from the four alternatives, which when placed in the missing portion (?) of the original figure as shown by the figure (X), would complete the pattern.

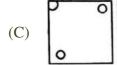


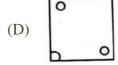
120. Select a figure from the four alternatives, which when placed in the missing portion (?) of the original figure as shown by the figure (X), would complete the pattern.











121. What will be the output of the program in 16 bit platform (Turbo C under DOS)?

```
#include<stdio.h>
int main()
{
    extern int i;
    i = 20;
    printf("%d\n", sizeof(i));
    return0;
}
```

- (A) 2
- (B) 4
- (C) vary from compiler
- (D) Linker Error: Undefined symbol 'i'

122. What is the output of the program?

```
#include<stdio.h>
int main()
     extern int a;
     printf("%d\n", a);
     return0;
int a=20;
```

- (A) 20
- (B) 0
- (C) Garbage Value
- (D) Error

123. Which of the declaration is correct?

- (A) int length;
- (B) char int;
- (C) int long;
- (D) float double;

124. Which of the following operations are INCORRECT?

- (A) int i = 35; i = i %5;
- (B) short int j = 255; j = j;
- (C) long int k = 365L; k = k; (D) float a = 3.14; a = a%3;

125. Which of the structure is INCORRECT?

```
1:
     struct aa
     {
          int a;
          float b;
     } ;
2:
     struct aa
     {
          int a;
          float b;
          struct aa var;
     } ;
3:
     struct aa
     {
          int a;
          float b;
          struct aa *var;
     } ;
(A) 1
```

- (B) 2
- (C) 3
- (D) 1, 2, 3

126. Which of the structure is correct?

```
1:
     struct book
     {
           char name[10];
           float price;
           int pages;
     };
2:
     struct aa
           char name[10];
           float price;
           int pages;
3:
     struct book
     {
           char name[10];
           float price;
           int pages;
     }
(A) 1
(B) 2
(C) 3
(D) Either 1 or 2
```

- 127. In which numbering system can the binary number 1011011111000101 be easily converted to?
 - (A) Decimal system
 - (B) Hexadecimal system
 - (C) Octal system
 - (D) No need to convert
- 128. Which bitwise operator is suitable for **turning off** a particular bit in a number?
 - (A) && operator
 - (B) & operator
 - (C) || operator
 - (D) ! operator

- 129. Which bitwise operator is suitable for **turning on** a particular bit in a number?
 - (A) && operator
 - (B) & operator
 - (C) || operator
 - (D) | operator
- 130. What will be the output of the program?

```
#include<stdio.h>
int main()
{
    int a[5] = {5, 1, 15, 20, 25};
    int i, j, m;
    i = ++a[1];
    j = a[1]++;
    m = a[i++];
    printf("%d, %d, %d", i, j, m);
    return0;
}
```

- (A) 2, 1, 15
- (B) 1, 2, 5
- (C) 3, 2, 15
- (D) 2, 3, 20

131. What will be the output of the program?

3, 3, 3, 3

1, 2, 3, 4 2, 3, 4, 1

3, 4, 1, 2 4, 1, 2, 3

(D)

```
#include<stdio.h>
int main()
      static int a[2][2] = \{1, 2, 3, 4\};
      inti, j;
      static int *p[] = {(int*)a, (int*)a+1, (int*)a+2};
      for(i=0; i<2; i++)
            for(j=0; j<2; j++)
                   printf("%d, %d, %d, %d\n", *(*(p+i)+j),
                                          *(*(i+p)+j), *(*(p+j)+i));
      return0;
}
            1, 1, 1, 1
            2, 3, 2, 3
       (A)
            3, 2, 3, 2
            4, 4, 4, 4
            1, 2, 1, 2
            2, 3, 2, 3
       (B)
            3, 4, 3, 4
            4, 2, 4, 2
            1, 1, 1, 1
            2, 2, 2, 2
       (C)
            2, 2, 2, 2
```

132. Output for the code given below is

```
#include <stdio.h>
int main() {
    char *p = "Phone";
    p++;
    char c = (*p);
    ++c;
    p--;
    printf("%c%s",c, p++);
}
```

- (A) Phone
- (B) iPhone
- (C) jPhone
- (D) phone
- 133. What will be the output of the C Program?

```
#include<stdio.h>
#include<stdlib.h>
int main()
{
    int *j = (int*)malloc(4 * sizeof(int));
    *j = 9;
    free(j);
    printf("%d", *j);
    return 0;
}
```

- (A) Compilation Error
- (B) 0
- (C) Some Garbage value
- (D) Nothing Prints
- 134. Property which allows to produce different executable for different platforms in C is called?
 - (A) File inclusion
 - (B) Selective inclusion
 - (C) Conditional compilation
 - (D) Recursive macros
- 135. Which of the following typecasting is accepted by C language?
 - (A) Widening conversions
 - (B) Narrowing conversions
 - (C) Widening and Narrowing conversions
 - (D) No conversions are accepted

136. Find the output of the following code.

```
#include <stdio.h>
int min(int x, int y) {
    return(y<x)? y : x;
}
int main() {
    int a[]={-5, 9, 8, -8, -2};
    int z = a[0], n=5, i=0, c=a[0];
    for(i=1; i<n; i++) {
        c=min(a[i], c+a[i]);
        z=min(z,c);
    }
    printf("%d", z);
}</pre>
```

- (A) -10
- (B) 10
- (C) -9
- (D) -11

137. What is the output of the program given below?

```
#include <stdio.h>
int main() {
    int c[]={5,0,3,4,5};
    int j, *q=c;
    for(j=0; j<*q; j++) {
        printf("%d", *c);
        ++q;
    }
}</pre>
```

- (A) 5
- (B) 0
- (C) 4
- (D) 3

138. Output of the following code.

```
#include <stdio.h>
    int main(){
    inti=4;
    for (i=0; i=-4; i++) {
          printf("%d", i);
          if(i!=-3)
               break;
          return 0;
    }
(A) -1
```

- (B) 0
- (C) -4
- (D) -3

139. Determine the output for the given piece of C programming code.

```
#include <stdio.h>
void function(int[][3]);
int main(void){
     int a[3][3] = \{1,2,3,4,5,6,7,8,9\};
     function(a);
     printf("%d", a[2][1] - a[1][2]);
     return 0;
void function(int a[][3])
     ++a;
     a[1][1]++;
```

- (A)
- (B)
- (C)
- (D)
- 140. Among 4 header files, which should be included to use the memory allocation functions like malloc(), calloc(), realloc() and free()?
 - (A) #include<string.h>
 - (B) #include<math.h>
 - (C) #include<stdlib.h>
 - (D) #include<memory.h>

- 141. If fopen () functions is not able to open a file, it will return?
 - (A) Compilation error
 - (B) 0
 - (C) EOF
 - (D) NULL
- 142. Output of the following code is

```
#include <stdio.h>
void main() {
    int n =11, res =1;
    do
    {
        n-=5;
        res *=5;
    }while(n>5);
    printf("%d", n*res);
}
```

- (A) 25
- (B) 30
- (C) 35
- (D) 20
- 143. Select the correct output of the execution.

```
#include <stdio.h>
int fun(int n) {
    if(n!=0) {
        return n -fun(n-5);
    }else{
        return n;
    }
}
int main() {
    int n =10, z;
    z=fun(n);
    printf("%d", z);
}
```

- (A) 4
- (B) 6
- (C) 10
- (D) 5

- 144. What is the main difference between Structure and Union in C Programming?
 - (A) A Structure is a user-defined datatype, a Union is a built-in datatype
 - (B) Structure uses multiple memory locations, a Union use only a single memory location
 - (C) Structure combines data items of different kind like a record, Union stores different data types in the same memory location
 - (D) Structure can have only one single data item, Union can have multiple data items
- 145. What will be the output of the following program?

```
#include <stdio.h>
int main() {
    int n = 010101, count = 0;
    while(n!=0) {
        n/=10;
        ++count;
    }
    printf("%d", count);
    return 0;
}
```

- (A) 6
- (B) 3
- (C) 5
- (D) 4
- 146. The C Preprocessors are specified with symbol.
 - (A) #
 - (B) \$
 - (C) ",
 - (D) &
- 147. Which of the following is **NOT** possible statically in C language?
 - (A) Cuboidal Array
 - (B) Rectangular Array
 - (C) Jagged Array
 - (D) Multidimensional Array
- 148. The standard header is used for variable list arguments (...) in C.
 - (A) <stdio.h>
 - (B) <stdlib.h>
 - (C) <math.h>
 - (D) <stdarg.h>

- 149. What is the sizeof (char) in a 32-bit C compiler?
 - (A) 1 bit
 - (B) 2 bits
 - (C) 1 Byte
 - (D) 2 Bytes
- 150. What is the output of the following program?

```
#include <stdio.h>
int main()
{
    static int i=5;
    if(--i) {
        main();
        printf("%d ",i);
    }
}
```

- (A) 4231
- (B) 1234
- (C) 0000
- (D) Compiler error

FINAL ANSWER KEY													
Subject Name: 621 M VOC MOBILE PHONE APPLICATION DEVELOPMENT													
SI No.	Key	SI No.	Key	SI No.	Key	SI No.	Key	SI No.	Key				
1	A	31	D	61	С	91	A	121	D				
2	A	32	В	62	С	92	В	122	A				
3	В	33	A	63	D	93	A	123	A				
4	A	34	В	64	В	94	D	124	D				
5	В	35	C	65	A	95	A	125	В				
6	C	36	В	66	D	96	D	126	A				
7	D	37	C	67	В	97	C	127	В				
8	В	38	A	68	C	98	D	128	В				
9	D	39	A	69	В	99	C	129	D				
10	С	40	A	70	D	100	D	130	С				
11	В	41	С	71	C	101	D	131	С				
12	D	42	C	72	A	102	В	132	В				
13	C	43	C	73	В	103	В	133	В				
14	D	44	В	74	A	104	D	134	С				
15	D	45	A	75	A	105	D	135	С				
16	C	46	D	76	D	106	В	136	A				
17	C	47	D	77	C	107	D	137	A				
18	C	48	В	78	В	108	C	138	С				
19	C	49	D	79	A	109	C	139	D				
20	Α	50	C	80	В	110	C	140	С				
21	С	51	В	81	D	111	D	141	D				
22	С	52	A	82	A	112	В	142	A				
23	В	53	C	83	В	113	D	143	D				
24	A	54	В	84	С	114	В	144	С				
25	В	55	Α	85	В	115	С	145	D				
26	C	56	В	86	В	116	A	146	A				
27	A	57	D	87	D	117	D	147	С				
28	C	58	С	88	A	118	A	148	D				
29	C	59	В	89	С	119	В	149	С				
30	В	60	A	90	A	120	C	150	C				