1.	The	The magnetic field strength of solenoid can be increased by			
	(A)	Decreasing the current			
	(B)	Decreasing the number of turns			
	(C)	Removing iron from the field	Removing iron from the field		
	(D)	Increasing the current			
	(E)	Answer not known			
2.	LVI	LVDT is a			
	(A)	Passive Capacitive Transducer			
	(B)	Passive Inductive Transducer			
	(C)	Active Capacitive Transducer			
	(D)	Active Inductive Transducers			
	(E)	Answer not known			
3.	Whi	nich photo electric device is most su	itable for digital applications?		
	(A)	Photo-emissive cell (I	B) Photo diode		
	(C)	Photo transistor (I	D) Photo voltaic cell		
	(E)	Answer not known			
4.	A Li	Linear Variable Differential Transf	ormer (LVDT) is		
	(A)	a) a displacement transducer			
	(B)	· -			

a differential temperature sensor

an auto transformer

Answer not known

(C)

(D)

(E)

5. In a 3 phase symmetrical and balanced system, the sum of instantaneous values of emfs of three phase is

(A) always zero

(B) $e_R + e_Y + e_B$

(C) $e_R - e_Y + e_B$

(D) $e_R - e_Y - e_B$

(E) Answer not known

6. In a balanced delta connected system the line current and phase current are related as

(A) $I_L = \sqrt{3} I_{ph}$

(B) $I_L = I_{ph}$

(C) $I_{ph} = \sqrt{3} I_L$

(D) None of the above

(E) Answer not known

7. Energy stored in a capacitor is given by all of the following relations except

(i) E = QV/2

(ii) $E = CV^2/2$

(iii) $E = Q^2/2C$

(iv) E = QCV/2

(A) (iv)

(B) (i) and (ii)

(C) (i) and (iii)

(D) All the four expression

(E) Answer not known

- 8. The basic step of a 9 bit DAC is 10.3 mV. If 000000000 represents 0V, what input is produced if the input is 101101111.
 - (A) 1.24 V

(B) 3.78 V

(C) 4.26 V

(D) 1.02 V

- (E) Answer not known
- 9. The ratio of transformation in potential transformers
 - (A) Increases with increase in power factor of secondary burden
 - (B) Decreases with increase in power factor of secondary burden
 - (C) Remains constant irrespective of power factor of secondary burden
 - (D) Proportional to square of the power factor of secondary burden
 - (E) Answer not known
- 10. During measurement of voltage and current in a load, ammeter and voltmeter are connected in series and across the load respectively. If voltmeter and ammeter positions are interchanged by mistake, then
 - (A) Voltmeter will be damaged
 - (B) Ammeter will be damaged
 - (C) Both Ammeter and Voltmeter will be damaged
 - (D) Both the meters are safe
 - (E) Answer not known

11.	coil	= 30 mm, Flux density in the	has the following data. the coil = 20 mm, Depth of the ne gap = 0.1 wb/m², deflection through the moving coil is given	
	(A)	5 A	(B) 50 mA	
	(C)	5 mA	(D) 10 mA	
	(E)	Answer not known		
12.	A 3 phase, 400 V, 50 Hz, 4 pole induction motor runs at a slip of 5 percent. Calculate the speed of the rotor at a slip of 5 percent.			
	(A)	1425 rpm	(B) zero	
	(C)	75 rpm	(D) 1500 rpm	
	(E)	Answer not known		
13.	The iron loss of a certain transformer at full load is 100 watts. This loss at half load will be			
	(A)	50 w	(B) 25 w	
	(C)	20 w	(D) 100 w	
	(E)	Answer not known		
14.		DC motor, speed control by tance provides a	changing the armature circuit	
	(A)	Constant power drive	(B) Constant torque drive	
	(C)	Variable torque drive	(D) Variable power drive	
	(E)	Answer not known	· ,	

15.	The is	limit of voltage harmonic dist	ortion for any typical application		
	(A)	3%	(B) 5%		
	(C)	10%	(D) 15%		
	(E)	Answer not known			
16.	In a	3-phase full converter, the six	SCRs are fired at an interval of		
	(A)	30°	(B) 60°		
	(C)	90°	(D) 120°		
	(E)	Answer not known			
17.	A PWM switching scheme is used in single phase inverters to				
	(A)	Reduce the total harmonic dis	stortion		
	(B)	Minimise the load on the dc s	ide		
	(C)	Increase the life of batteries			
	(D)	Reduce low order harmonics	ics and increase higher order		
	(E)	Answer not known			
18.	Zener diode is operated in region.				
	(A)	Active			
	(B)	Breakdown			
	(C)	Forward bias			
	(D)	Cut off			
	(E)	Answer not known			

- 19. In JFET, the channel conductivity is primarily controlled by
 - (A) Drain to source voltage
 - (B) Source to drain voltage
 - (C) Gate to source voltage
 - (D) Base to emitter voltage
 - (E) Answer not known

20. A JFET

- (A) is a current controlled device
- (B) has low input impedance
- (C) is a voltage controlled device
- (D) has very large voltage gain
- (E) Answer not known

21. What does MAODV stand for?

- (A) Multicast Adhoc on-Demand distance vector
- (B) Mobile Adhoc optimized Distance vector
- (C) Multicast Adaptive on-Demand vector
- (D) Modified Adhoc on-Demand vector
- (E) Answer not known

22.	A proto	roactive routing protocol is also known as a rocol.	outing
	(A)	Table driven	
	(B)	On-demand	
	(C)	Hybrid	
	(D)	All the above	
	(E)	Answer not known	
23.		node wants to know the current location of a mobile Node nds a request to Home Agent (HA). The method is called	(MN),
	(A)	Binding update	
	(B)	Binding warning	
	(C)	Binding request	
	(D)	Binding acknowledgement	
	(E)	Answer not known	
24.	The (MN)	defines the current location of the mobile f) from an IP point of view.	node
	(A)	Foreign Agent (FA)	
	(B)	Care of address (CoA)	
	(C)	Home Network	
	(D)	Foreign Network	
	(E)	Answer not known	

- 25. For any given code h, it is computationally infeasible to find x such that H(x) = h. A hash function with this property is referred to as
 - (A) Second preimage resistant
 - (B) One way or preimage resistant
 - (C) Collision resistant
 - (D) Strong Collision resistant
 - (E) Answer not known
- 26. ______ is defined as an attack in which the adversary chooses a number of cipher texts and is then given the corresponding plaintexts, decrypted with the target's private key.
 - (A) Ciphertext attack
 - (B) Chosen ciphertext attack
 - (C) Malware attack
 - (D) Timing attack
 - (E) Answer not known
- 27. Vigenere cipher belongs to
 - (A) Poly alphabetic ciphers
 - (B) Mono alphabetic ciphers
 - (C) Bi alphabetic ciphers
 - (D) Multi alphabetic ciphers
 - (E) Answer not known

28.	The mon	algorithm which defines the details of how to itor the Queue length and when to drop a packet.
	(A)	RED – Random Early Detection
	(B)	DEC bit
	(C)	Source based congestion
	(D)	Leaky bucket algorithm
	(E)	Answer not known
29.		mechanism is used to convert domain name into IP address is vn as
	(A)	URL
	(B)	DNS
	(C)	FTP
	(D)	HTTP
	(E)	Answer not known
30.	Whi	ch of the following WLAN standard has been named WiFi?
	(A)	IEEE 802.6
	(B)	IEEE 802.15.4
	(C)	DSSS IEEE 802.11b
	(D)	IEEE 802.11g
	(E)	Answer not known

- 31. ______ is designed to improve network efficiency by reducing the number of packets sent particularly for streams of small data.
 - (A) Dynamic routing algorithm
 - (B) Nagle's algorithm
 - (C) Link-state Routing algorithm
 - (D) Dijkstra's shortest path algorithm
 - (E) Answer not known
- 32. A simple protocol used for fetching email from a remote mail box is
 - (A) POP3
 - (B) IMAP
 - (C) DMSP
 - (D) SMTP
 - (E) Answer not known
- 33. User Datagram Protocol (UDP) is called connectionless because
 - (A) All UDP packets are treated independently by transport layer
 - (B) It sends data as a stream of related packets
 - (C) It is received in the same order as sent order
 - (D) It sends data very quickly
 - (E) Answer not known

34.	technology is one of the most promising for supporting high speed digital communication over the existing telephone.			
	(A)	CMTS		
	(B)	DSL		
	(C)	MODEM		
	(D)	Cable		
	(E)	Answer not known		
35.		is a non-adaptive routing algorithm where every ming data packet is forwarded to all outgoing links except the it arrived on		
	(A)	Flooding		
	(B)	Distance vector routing		
	(C)	Path vector algm.		
	(D)	Link state routing		
	(E)	Answer not known		
36.	is an IP address allocation method that improves data routing efficiency on the internet.			
	(A)	ICMP		
	(B)	DHCP		
	(C)	ARP		
	(D)	CIDR		
	(E)	Answer not known		

- 37. The three layers in Asynchronous Transfer Mode (ATM) are
 - (A) ATM Adaptation Layer (AAL), ATM Layer and Physical Layer
 - (B) Application Layer, Transport Layer and ATM
 - (C) Session Layer, ATM Layer and Physical Layer
 - (D) Internet Layer, Application Layer and ATM Layer
 - (E) Answer not known
- 38. What is the main purpose of using collision free protocols in computer networks?
 - (A) To reduce network traffic
 - (B) To improve network security
 - (C) To increase network efficiency and reduce contention
 - (D) To decrease latency
 - (E) Answer not known
- 39. Which of the following protocol is responsible for converting higher level protocol address to physical network address?
 - (A) Reverse Address Resolution Protocol (RARP)
 - (B) Bootstrap Protocol (BOOTP)
 - (C) Address Resolution Protocol (ARP)
 - (D) Internet Control Message Protocol (ICMP)
 - (E) Answer not known

- 40. The technique of temporarily delaying outgoing acknowledgements so that they can be hooked on to the next outgoing data frame is called
 - (A) Cyclic redundancy check
 - (B) Parity check
 - (C) Piggybacking
 - (D) Fletcher's checksum
 - (E) Answer not known
- 41. In linked allocation
 - (A) Each file must occupy a set of contiguous blocks of the disk
 - (B) Each file is a linked list of storage blocks
 - (C) All the pointers are scattered blocks are placed together in one location
 - (D) None of these
 - (E) Answer not known
- 42. Which among the following is not an essential characteristic of NIST cloud model?
 - (A) Rapid elasticity

(B) Multi-tenancy

(C) Resource pooling

- (D) Broad network access
- (E) Answer not known

43.		Which among the essential characteristics of cloud computing is not efficient in grid computing model?		
	(A)	Rapid elasticity	(B) Resource sharing	
	(C)	Distributed service	(D) Both (A) and (B)	
	(E)	Answer not known		
44.	File	type can be represented by		
	(A)	File name	(B) File extension	
	(C)	File identifier	(D) Binary	
	(E)	Answer not known		
45.	The software layer implementing virtualization is known as			
	(A)	Operating systems	(B) Hypervisor	
	(C)	Application layer	(D) None of these	
	(E)	Answer not known		
46.	Disk address consists of			
	(A)	Cylinder number, track number		
	(B)	Cylinder number, track number, sector number		
	(C)	Cylinder number, sector number		
	(D)	None of the above		
	(E)	Answer not known		

47. Consider the following set of processes, assumed to have arrived at time o in the order $P_1, P_2, ..., P_5$ with the length of the CPU bust given in milliseconds

Process	Bust Time	Priority
P	10	3
P_2	1	1
P_3	2	4
P_4	1	5
P_5	5	2

Using priority scheduling, the average waiting time is

- (A) 8-2 milliseconds
- (B) 6-5 milliseconds

(C) 7 milliseconds

- (D) 7-5 milliseconds
- (E) Answer not known
- 48. The ______ facility enables a user thread to specify a function that is to be called when the user thread receives notification of a particular event.
 - (A) Synchronous procedure call
 - (B) Asynchronous procedure call
 - (C) Default procedure call
 - (D) User defined procedure call
 - (E) Answer not known

49.	A thread library available for Solaris systems and adopted in early versions of Java, uses the many to one model					
	(A)	Green threads	(B)	Write threads		
	(C)	Blue threads	(D)	User threads		
	(E)	Answer not known				
50.	To establish and maintain communication between two processes windows uses					
	(A)	Connection ports and com	nmunicat	ion ports		
	(B)	Local ports and communication ports				
	(C)	System ports and Local p	orts			
	(D)	Parallel ports				
	(E)	Answer not known				
51.	focuses on distributing subsets of the same data across multiple computing cores and performing the same operation or each core.					
	(A)	Task parallelism	(B)	Data parallelism		
	(C)	Process parallelism	(D)	None of the above		
	(E)	Answer not known				

- 1. Pipe (fd [])
- 2. Pipe (int fd [])
- 3. Pipe (int)
- 4. Pipe ()
- (A) (1) only
- (B) (2) only
- (C) (1) and (2) only
- (D) (3) and (4) only
- (E) Answer not known

53. When a process creates a new process, two possibilities for execution exist?

- 1. The parent continues to execute concurrently with its children
- 2. The parent waits until some or all of its children have terminated.
- 3. The children process is a duplicate of the parent process
- 4. The child process has a new program loaded into it
- (A) 1 and 2 are correct
- (B) 1 and 3 are correct
- (C) 2 and 4 are correct
- (D) 2 and 3 are correct
- (E) Answer not known

	is used when the source CPU type is different from the target CPU type			
(A)	Virtualization	(B)	Emulation	
(C)	Interpretation	(D)	None of the above	
(E)	Answer not known			
Lin	Linux uses to implement CPU scheduling algorithms.			
(A)	general tree	(B)	binary tree	
(C)	binary search tree	(D)	balanced binary search tree	
(E)	Answer not known			
Wh	Which one of the following is NOT the type of Linked List?			
(A)	singly linked list	(B)	doubly linked list	
(C)	circularly linked list	(D)	dotted linked list	
(E)	Answer not known			
Ide	Identify the correct:			
of A	Suppose an integer A in file B resides on Magnetic disk. If the value of A is to be incremented, which of the following correctly migrates A to CPU for execution.			
(A)	Hardware register \rightarrow 0 disk	Cache →	Main Memory → Magnetic	
(B)	Cache → Main Memo register	$\text{ory} \rightarrow M$	agnetic disk → Hardware	
(C)	Magnetic disk → Mai register	n Memor	$\text{ry} \rightarrow \text{Cache} \rightarrow \text{Hardware}$	
(D)	Cache \rightarrow Magnetic disk	→ Main M	${\tt Iemory} \to {\tt Hardware}$	
(E)	Answer not known			

58. Choose the right answer:

Traditional UNIX system structure

- (A) is layered
- (B) the kernel provides file system, CPU scheduling and memory management
- (C) the kernel is modularised
- (D) both (A) and (B)
- (E) Answer not known
- 59. The I/O subsystem consists of
 - (1) A memory management component that includes buffering, caching and spooling
 - (2) A general device-driver interface
 - (3) Drivers for specific hardware devices
 - (4) All the above
 - (A) (1)

(B) Both (1) and (2)

(C) (4)

(D) Both (1) and (3)

(E) Answer not known

60.	Choose the right answer among type:			
		ch of the following stateme tiprocessor?	ents are true about Multicore	
	(i)	They can be more efficient core.	than multiple chips with single	
	(ii)	One chip with multiple core than multiple single – core ch	es uses significantly less power ips.	
	(iii)	It is a multiple single – core c	hip.	
	(A)	(i) only	(B) (i) and (ii) only	
	(C)	(i) and (iii) only	(D) (ii) and (iii) only	
	(E)	Answer not known		
61.	Which property means that the copies of the same information item at the successive memory levels must be consistent?			
	(A)	Round-trip time	(B) Inclusion	
	(C)	Coherence	(D) Locality of reference	
	(E)	Answer not known		
62.	The USB Pen drives and SD cards are made up memory.			
	(A)	NOR Flash	(B) NAND Flash	
	(C)	PROM	(D) EEPROM	

Answer not known

(E)

63.		connected by buses or local area networks?							
	(A)	Uniform Memory Access (UMA)							
	(B)	Non Uniform Memory Access (NUMA)							
	(C)	Direct Memory Access (DMA)							
	(D)	None of the above							
	(E)	Answer not known							
64.	Shared writable data are and remains in the main memory								
	(A)	Cachable	(B) Non-Cachable						
	(C)	Centralized Cachable	(D) Snoopy Cache						
	(E)	Answer not known							
65.	In which mapping, each word of cache, can store two or more word of memory under the same Index address?								
	(A)	Mapping	(B) Associative Mapping						
	(C)	Direct Mapping	(D) Set-Associative Mapping						
	(E)	Answer not known							

- 66. Which metric removes the discrepancy between systems with different numbers of clocks per operation by measuring instructions per second rather than clocks per second?
 - (A) Latency
 - (B) Through put
 - (C) Relative performance
 - (D) Millions of Instruction Per Second (MIPS)
 - (E) Answer not known
- 67. Conversion of $0.8125_{(10)}$ into its binary fraction
 - (A) 0.1101_2

(B) 0.0011₂

(C) 0.1010_2

- (D) 0.1110₂
- (E) Answer not known
- 68. Find the sum and output carry of a half adder for set of input bits 01
 - (A) sum = 1, o/p carry = 0
- (B) sum = 1, o/p carry = 1
- (C) sum = 0, o/p carry = 0
- (D) sum = 0, o/p carry = 1
- (E) Answer not known

"It is used in conjunction with two byte instructions where the first byte is op code and the second byte is the operand.

- (A) Direct Addressing mode
- (B) Immediate Addressing mode
- (C) Inherent Addressing mode
- (D) Index Addressing mode
- (E) Answer not known

70. Choose the correct statement about Cache Memory

- (A) process that copies frequently accessed instructions
- (B) contains program and data Associated with them
- (C) system specific low level code
- (D) page replacement
- (E) Answer not known

$$(x+y)(\overline{x}\,\overline{y})$$

(A) 0

(B) 1

(C) x

- (D) y
- (E) Answer not known

72.	Name the Address mode which is used by a class of Instruction known as branch Instructions						
	(A)	Relative Addressing		(B) In	mmediate Addressing	
	(C)	Indexed Addressing		(D) Ir	ndirect Addressing	
	(E)	Answer not known					
73.	Cho	ose the gate name whi	ch ha	ving t	he tr	ruth table	
			A	В	X		
			0	0	1		
			0	1	0		
			1	0	0		
			1	1	1		
	(A)	XOR		(B) N	IOR	
	(C)	XNOR		(D) N	IAND	
	(E)	Answer not known					
74.		ch processor have 32 cage CPI is less than 1		gene	ral p	ourpose registers and the	
	(A)	RISC		(B) C	ISC	
	(C)	Vector		(D) S	uper scalar	
	(E)	Answer not known					
75 .	Whi	ch hazard is otherwise	e knov	vn as	bran	ch hazard?	
	(A)	Data Hazard		(B) S	tructural Hazard	
	(C)	Control Hazard		`	,	Ione of the above	
	(E)	Answer not known		`	,		
	` /						

76.	Which hazard occurs when the hardware couldnot support possible combinations of the instructions simultaneously?					
	(A)	Data Hazard	(B) Structural Hazard			
	(C)	Control Hazard	(D) None of the above			
	(E)	Answer not known				
77.	imag		25 ms to render a certain graphic d to 100 ms when a graphics m. What is the speed up?			
	(A)	0.75	(B) 1.25			
	(C)	.25	(D) 1.00			
	(E)	Answer not known				
78.	What type of hazard occurs when an instruction in fetched from the memory, some proceeding instructions may be reading or writings some data onto the memory in the same pipeline cycle?					
	(A)	Control Hazard	(B) Instruction Hazard			
	(C)	Data Hazard	(D) Structural Hazard			
	(E)	Answer not known				
79.		rlapped register in RISC pr sters, global register				
	(A)	74, 10, 4	(B) 62, 8, 2			
	(C)	70, 10, 2	(D) 74, 8, 4			
	(E)	Answer not known				

	(A)	20	(B) 21			
	(C)	25 25				
			(D) 30			
	(E)	Answer not known				
81.	Whi	ch manipulators set the format	flag f in output?			
	(A)	setprecision (int d)	(B) setfill (int c)			
	(C)	setiosflags (long f)	(D) setw (int w)			
	(E)	Answer not known				
82.	Identify the invalid statement for virtual function.					
	(i)	Virtual functions must be me	mbers of some class.			
	(ii)	They can be static and dynamic members.				
	(iii)	They are accessed by using object pointers.				
	(iv)	A virtual function can be a fri	end of another class			
	(A)	(i)	(B) (ii)			
	(C)	(iii)	(D) (iv)			
	(E)	Answer not known				
	` /					

How many ADD instructions in VAX?

80.

83.	_	lace-copy-if() function categori tandard Template Library (STL		algorithms					
	(A)	Nonmutating algorithms							
	(B)	Mutating algorithms							
	(C)	Search algorithms							
	(D)	Relational algorithms							
	(E)	Answer not known							
84.		In base class, some functions has been defined empty, then the functions are called as							
	(A)	empty functions	(B) virtual functions	S					
	(C)	pure virtual functions	(D) void functions						
	(E)	Answer not known							
85.	Dynamic binding is associated with								
	(1)	Polymorphism							
	(2)	Inheritance							
	(3)	Encapsulation							
	(4)	Abstraction							
	(A)	(1) and (2)							
	(B)	(1) only							
	(C)	(2) and (3)							
	(D)	(4) only							
	(E)	Answer not known							

86.	The feature by which object sending and receiving inform					ect communicate with one another by mation is called	
	(A)	Dat	ta bind	ing		(B) Message passing	
	(C)	Dat	ta tran	sfer		(D) Data reading	
	(E)	Ans	swer no	ot knov	wn		
87.	Argument to a copy constructor						
	(A)	mu	st be c	onst		(B) must not be const	
	(C)	mu	st be in	nteger		(D) must be static	
	(E)	Ans	swer no	ot knov	wn		
88.	Match the following type:						
00.	(a)	Friend function			1.	make a program run faster but speed diminishes as the function grows in size	
	(b)	Static member variable			2.	eliminate and redundant code and extend the use of existing class	
	(c)	Inline function		3.	can be declared either in the public or private part of a class		
	(d)	Inhe	ritance	е	4.	visible only within the class	
		(a)	(b)	(c)	(d)		
	(A)	4	3	1	2		
	(B)	4	1	3	2		
	(C)	3	4	1	2		
	(D)	4	3	2	1		
	(E)	Ans	wer no	t knov	vn		

- 89. The method used to close a file is
 - (A) file.close()

(B) close.file()

(C) close()

- (D) file close()
- (E) Answer not known
- 90. Choose the correct option for the code snippet below.

with open ("file.txt", "rb") as file:

for line in file:

print (line)

- (A) the file is opened for read in binary format but the file is not closed after for loop is over
- (B) after the file is used in the for loop, it is automatically closed after the loop is over
- (C) compiler error
- (D) does not raise error but fails to execute
- (E) Answer not known

91.	Identify the statements which are not true about Tuples					
	(1)	Tuples can be used as key for a dictionary				
	(2)	Tuples are mutable				
	(3)	Tuples can be converted into list				
	(4)	A tuple can be defined inside another Tuple				
	(A)	(1) and (2)				
	(B)	(2) and (3)				
	(C)	(3) and (4)				
	(D)	(2) only				
	(E)	Answer not known				
92.	Which operator is also known as string repetition operator?					
	(A)	+ (B) *				
	(C)	& (D) ^				
	(E)	Answer not known				
93.	Two variables of the same structure can be copied the same way as ordinary variables					
	(A)	Yes				
	(B)	Compiler Error				
	(C)	Syntax Error				
	(D)	Garbage values will be the resultant				
	(E)	Answer not known				

94.	The default C storage class for a variable						
	(A)	int					
	(B)	static					
	(C)	auto					
	(D)	extern					
	(E)	Answer not known					
95.	The major difference between structure and union is in the						
	(A)	Usage	(B)	Assigning members			
	(C)	Defining members	(D)	Storage			
	(E)	Answer not known					
96.	The scope of local variable in C will be for						
	(A)	The entire program					
	(B)	The entire file					
	(C)	The function in which it is declared					
	(D)	All the functions in the pro	gram				
	(E)	Answer not known					

	listed below					
		Char * name [3] = {"New",				
		"Australia"	, ,			
		"India"}				
	(A)	Char name [0] [25];	(B) Char name [3];			
	(C)	Char name [4];	(D) Char name [3] [25];			
	(E)	Answer not known				
98.	Pick	out the formatted I/O function	in C language			
	(A)	printf()	(B) getchar()			
	(C)	putch()	(D) gets()			
	(E)	Answer not known				
99.	In th	ne C program the equality oper	ator is represented by			
	(A)	: =	(B) ⋅ EQ ⋅			
	(C)	=	(D) $= =$			
	(E)	Answer not known				
100.	The	expression for (;exp2;) is a vali	d expression in C program justify			
	(A) The loop will not terminate – Invalid statement in C					
	(B)	Syntax error – Invalid statem	ent in C			
	(C)	Valid statement in C				

None of the above

Answer not known

(D)

(E)

101.	is a circuit for emulating the target system that remains independent of a particular targeted system processor, usable during the development phase for most of the target systems that will incorporate a particular microcontroller chip					
	(A)	Compiler	(B) Emulator			
	(C)	Debugger Answer not known	(D) In-Circuit Emulator (ICE)			
	(E)	Answer not known				
102.	If the combinations of events from the two tasks operate on the device in the wrong order, may create					
	(A)	Race condition that causes erroneous operation				
	(B)	Shared operation				
	(C)	Read/write operation				
	(D)	Response operation				
	(E)	Answer not known				
103.	. Unified Modeling Language allows us to define inheritance in which a class is derived from more than one class.					
	(A)	Single inheritance	(B) Multiple inheritance			
	(C)	Double inheritance	(D) Class inheritance			
	(E)	Answer not known				

- 104. A simulator that functionally simulates instructions but does not provide timing information is known as
 - (A) Instruction cycle simulator
 - (B) Accurate level simulator
 - (C) Instruction level simulator
 - (D) Cycle accurate simulator
 - (E) Answer not known
- 105. For the given simple C loop, consider N = 4

```
for (i = 0 ; i < N; i++){
a[i] = b[i] * c[i];
}
```

unroll the given loop twice.

- (A) for $(i = 0; i < 4; i++) \{a[i] = b[i] * c[i];\}$
- (B) for $(i = 0 ; i < 2 ; i++) \{a[i*2] = b[i*2] * c[i*2]; a[(i*2)+1] = b[(i*2)+1] * c[(i*2)+1]; \}$
- (C) for $(i = 0 ; i < 4 ; i++) \{a[i*2] = b[i*2] * c[i*2]; a[(i*2)+1] = b[(i*2)+1] * c[(i*2)+1]; \}$
- (D) for $(i = 0; i < 2; i++) \{a[i] = b[i] * c[i];\}$
- (E) Answer not known

106.	CPU	J utilization metrics (U) of the mul	tirate system is
	(A)	U = CPU time for useful work/to	tal available CPU time
	(B)	U = total available CPU time/CP	U time for useful work
	(C)	U = CPU time/total system time	
	(D)	U = total system time/CPU time	
	(E)	Answer not known	
107.	Choo	ose the correct option suitable for I	Rate-Monotonic scheduling
	(1)	Extracts higher utilization of the	e CPU
	(2)	Difficult to diagnose the possibil	ity
	(3)	Lower CPU utilization	
	(4)	Easier to ensure that all deadlin	es will be satisfied
	(A)	(1), (2) and (4) only	
	(B)	(3) and (4) only	
	(C)	(2) and (3) only	
	(D)	(1) and (2) only	
	(E)	Answer not known	
108.	The the	data structure that holds the sta	ate of the process is known as
	(A)	Context (E	3) Context switching

(C)

(E)

Record

Answer not known

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(D) Kernel

109. Choose the right option

ARM supports the following addressing modes

- (i) Register-indirect addressing
- (ii) Base-plus-offset addressing
- (iii) Auto indexing
- (iv) Post indexing
- (v) Register addressing
- (A) (i), (ii), (iii) and (iv)
- (B) (i), (ii), (iii) and (v)
- (C) (ii), (iii), (iv) and (v)
- (D) (i), (ii), (iii), (iv) and (v)
- (E) Answer not known
- 110. Name the requirements to be satisfied by the architectural descriptions of embedded system design process
 - (A) Functional and non-functional requirements
 - (B) Memory and user interface requirements
 - (C) Behavioral and non-behavioral requirements
 - (D) Accurate and in-accurate requirements
 - (E) Answer not known
- 111. Indicate the selection made in the 8051 instruction; MOV TMOD, #20H
 - (A) Timer 1, Mode 2

(B) Timer 1, Mode 1

(C) Timer 0, Mode 2

- (D) Timer 0, Mode 1
- (E) Answer not known

- 112. Find the value of A and CY flags of 8051 constructions in each of the following
 - (i) MOV A, # 4FH ADD B, # B1H
 - (ii) MOV A, # 9CH ADD A, # 63 H
 - (A) (i) A = FF and CY = 1 and (ii) A = 00 and CY = 1
 - (B) (i) A = FF and CY = 1 and (ii) A = 00 and CY = 0
 - (C) (i) A = 00 and CY = 1 and (ii) A = FF and CY = 1
 - (D) (i) A = 00 and CY = 1 and (ii) A = FF and CY = 0
 - (E) Answer not known
- 113. Identify the invalid instruction set of 8051 microcontroller
 - (A) MOV, DPTR, # 25F5 H
- (B) MOV R2, #25 H

(C) MOV R2, DPTR

- (D) MOV R2, 40 H
- (E) Answer not known
- 114. Which 8051 port need pull-up resistors to function as an I/O port?
 - (A) P0 (Port 0)

(B) P1 (Port - 1)

(C) P2 (Port - 2)

- (D) P3 (Port 3)
- (E) Answer not known

- 115. How many byte instructions are the given 8051 instructions?
 - (i) JN2 HERE
 - (ii) LJMP
 - (A) 1 byte and 2 bytes
 - (B) 2 bytes and 1 byte
 - (C) 2 bytes and 3 bytes
 - (D) 3 bytes and 2 bytes
 - (E) Answer not known
- 116. How the 8051 flag register is named?
 - (A) Stack pointer
 - (B) Directives
 - (C) Program counter
 - (D) Program status word register
 - (E) Answer not known
- 117. What is the RAM and ROM size of 8051 microcontroller?
 - (A) 128 bytes and 4 k bytes
 - (B) 4 k bytes and 128 bytes
 - (C) 256 bytes and 8 k bytes
 - (D) 8 k bytes and 256 bytes
 - (E) Answer not known

118.	How many conditional flags are there in 8086 microprocessor?						
	(A)	6	(B) 7				
	(C)	8	(D) 10				
	(E)	Answer not known					
119.	How set?	many RST (Restart) instruction	ons are there in 8085 instruction				
	(A)	8	(B) 4				
	(C)	2	(D) 6				
	(E)	Answer not known					
120.	Two 16-bit registers to hold memory address of 8085 architecture are						
	(i)	BC register pair					
	(ii)	Accumulator					
	(iii) Stack Pointer						
	(iv)	Program counter					
	(A)	(i) and (ii)					
	(B)	(ii) and (iii)					
	(C)	(ii) and (iv)					
	(D)	(iii) and (iv)					
	(E)	Answer not known					

121.	A set of process indicators that lead to long term software process improvements are known as							
	(A)	Project metrics	(B) Process metrics					
	(C)	Product metrics	(D) Program metrics					
	(E)	Answer not known						
122.	"CM	M" stands for						
	(A)	Computer Maintenance Mana	gement					
	(B)	Company Maintenance Manag	gement					
	(C)	Capability Maturity Model						
	(D)	Capability Management Mode	1					
	(E)	Answer not known						
123.	23. Which one executes a system in a manner that demands, resource in abnormal quantity, frequency or volume?							
	(A)	Recovery testing	(B) Security testing					
	(C)	Stress testing	(D) Performance testing					
	(E)	Answer not known						
124.		—— focuses on the interretures within the boundaries of	nal processing logic and data a component"					
	(A)	Integration test	(B) Validation test					
	(C)	Verification test	(D) Unit test					
	(E)	Answer not known						

125.	. The internal view of software testing is termed as								
	(A)	White box testing							
	(B)	Black box testing							
	(C)	Basis path testing							
	(D)	Glass box testing and basis pa	th te	esting					
	(E)	Answer not known							
126.		process of executing a programing errors are known as	m (o:	r) system with the intent of					
	(A)	software design	(B)	software coding					
	(C)	software testing	(D)	software maintenance					
	(E)	Answer not known							
127.	Whic	ch one of the following is the be	st kr	nown technique using LOC?					
	(A)	CMM	(B)	RMM					
	(C)	COCOMO	(D)	SCM					
	(E)	Answer not known							
128.	Earn	ed value analysis is a measure	of						
	(A)	Project	(B)	Progress					
	(C)	Cost	(D)	Performance					
	(E)	Answer not known							

129.	9 is a collection of software engineering milestones, work products and quality assurance filters.				
	(A)	Task set		Task target	
	(C)	Task goal		Task analysis	
	(E)	Answer not known	(D)	Task allalysis	
130.	Whic	ch model combines the elemen	ts of	f linear and parallel process	
	(A)	Waterfall model	(B)	Incremental process model	
	(C)	Spiral model	(D)	Prototype model	
	(E)	Answer not known			
131.	In ag	gile process "XP" stand for			
	(A)	Extreme process	(B)	Extreme programming	
	(C)	Extra process	(D)	Extra program	
	(E)	Answer not known			
132.	In so	ftware process, "40-20-40 rule"	is a	pplicable for	
	(A)	Distribution of effort	(B)	Distribution of work place	
	(C)	Distribution of materials	(D)	Distribution of project	
	(E)	Answer not known			
133.	Chec	k list and brain storming are th	ne ap	oproaches of	
	(A)	Risk identification	(B)	Risk mitigation	
	(C)	Risk planning	(D)	Risk monitoring	
	(E)	Answer not known			
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134.		is a transformation that imposed on the design of an entire system.							
	(A)	System style	(B)	Data style					
	(C)	Architectural style	` ,	Construction style					
	(E)	Answer not known							
135.		lem of scope, problem of sility are related to	unde	rstanding and problem of					
	(A)	Inception	(B)	Elicitation					
	(C)	Elaboration	(D)	Negotiation					
	(E)	Answer not known							
136.	SSA	stands for							
	(A)	System Software Analysis							
	(B)	Software System Analysis							
	(C)	Structured System Analysis							
	(D)	Structure Standard Analysis							
	(E)	Answer not known							
137.	Whic	ch one is the primary requirem	ents	validation mechanism?					
	(A)	Technical review	(B)	Technical interview					
	(C)	Technical inspection	` /	Technical design					
	(E)	Answer not known	` /	C					

	(A)	System Requirements Specific	eation				
	(B)	Software Requirements Special	fication				
	(C)	Software Reengineering Specification					
	(D)	System Reengineering Specifi	cation				
	(E)	Answer not known					
139.		ules be "characterized by desig r" is known as	n decisions that prevents from all				
	(A)	Encapsulation	(B) Information Hiding				
	(C)	Mophing	(D) Modularity				
	(E)	Answer not known					
140.	The overall structure of the software and the ways that provides conceptual integrity for a system is known as						
	(A)	Software Process	(B) Software Design				
	(C)	Software Architecture	(D) Software Algorithm				
	(E)	Answer not known					
141.		ECK" clauses can be used vidually whenever inserted or n					
	(A)	row	(B) column				
	(C)	table	(D) all the above				
	(E)	Answer not known					

138. SRS stands for

142. Loan Relations

Borrower Relations

Loan-No	Branch-	Amount	Customer-	Loan-no	
	Name		name		
L-170	Downtown	3000	Jones	L-170	
L-230	Redwood	4000	Smith	L-230	
L-260	Perryridge	1700	Hayes	L-155	

Write the Output:

Loan left outer join borrower on loan.loan number = borrower.loan – number

as lb (loan -number)

- (A) L-170, L-230
- (B) L-170, L-230, L-260
- (C) L-170, L-230, L-260, L-155
- (D) L-170, L-230, L-155
- (E) Answer not known
- 143. Which SQL allow the programmers to create, execute and prepare for subsequent use?
 - (A) Embedded SQL
 - (B) Dynamic SQL
 - (C) Static SQL
 - (D) PL/SQL
 - (E) Answer not known

144.		th data structure that correspora expression?	ond	s to an extended relational
	(A)	List	(B)	Tree
	(C)	Query tree	(D)	Binary Tree
	(E)	Answer not known		
145.	Some	etimes Project-Join Normal form	n (P	J NF) otherwise called as
	(A)	First Normal form	(B)	Third Normal form
	(C)	Fourth Normal form	(D)	Fifth Normal form
	(E)	Answer not known		
146.	funct the	ation schema R is in —————————————————————————————————	unct	ional dependencies in F^+ of
	*	$\alpha - \beta$ is a trivial functional de	pen	dency (that is, $\beta \subseteq \alpha$)
	*	α is a super key for schema R	•	
	(A)	First Normal Form		
	(B)	Second Normal Form		
	(C)	Third Normal Form		
	(D)	Boyce - Codd Normal Form		
	(E)	Answer not known		

satisfy						must	always
	(A)	Conditional statements	(B)	Che	eck constra	int	
	(C)	Assertions	, ,		horization		
	(E)	Answer not known	(D)	1140	110112401011		
148.	Data	base can be modified by					
	(A)	Insertion, rename, deletion					
	(B)	Insertion, deletion, selection					
	(C)	Selection, deletion, update					
	(D)	Insertion, deletion, update					
	(E)	Answer not known					
					_		
149.	An E	Intity set that has a primary l	xey is	term	ned		
	(A)	Specialization Entity	(B)	Agg	regation E	Entity	
	(C)	Strong Entity	(D)	Wea	ak Entity		
	(E)	Answer not known					
1 20		a 1					. •1
150.		of a relation is values are guaranteed to uely.					
	(A)	Candidate key	(B)	Sup	er key		
	(C)	Instance		_	eign key		
	(E)	Answer not known	, ,				

Which of the following is not an advantage of DBMS?						
(A)	A) Increased data consistency					
(B)	Reduced data redundancy					
(C)	Improved data security					
(D)	Increased data isolation					
(E)	Answer not known					
The t	wo models preceded the relational data model was					
(A)	Entity Relationship model, Network data model					
(B)	Network data model and hierarchical data model					
(C)	Hierarchical model and Entity relationship model					
(D)	Semistructured model and Network model					
(E)	Answer not known					
	(A) (B) (C) (D) (E) The t (A) (B) (C) (D)					

- (A) Domain constraint
- (B) Primary keys

(C) Unique keys

- (D) Cartesian product
- (E) Answer not known

154.	Match the following RAID I					Levels		
	(a)	RAI	D-2		1.	Block - interleaved party		
	(b)	RAI	D-3		2.	Block – interleaved distributed party		
	(c)	RAI	D-4		3.	Error correcting codes		
	(d)	RAI	D-5		4.	Bit – interleaved party		
		(a)	(b)	(c)	(d)			
	(A)	4	3	1	2			
	(B)	3	4	1	2			
	(C)	3	4	2	1			
	(D)	1	2	3	4			
	(E)	Ans	swer no	t knov	vn			
155.	Thomas' write rule is applied for ——protocol.							
	(A)	(A) Timestamp – Ordering Protocol						
	(B)	·						
	(C)							
	(D)	-						
	(E)							
156.	and	the		se has		ter the transaction has been rolled back restored to its state prior to the start of		
	(A)	Act	cive			(B) Partially committed		
	(C)	Abo	orted			(D) Committed		
	(E)	Ans	swer no	ot knov	wn			

	(A)	Stack	(B)	Queue
	(C)	Linked list	(D)	Binary Tree
	(E)	Answer not known		
158.	by so	ch problem can occur when a rome transaction T satisfies a ssed by another Transaction T1	con	dition that a set of records
	(A)	Deletion problem	(B)	Insertion problem
	(C)	Phantom problem	(D)	Update problem
	(E)	Answer not known		
159.	subn Find	pose that two users - for example it the transactions T_1 and T_2 how many possible outcomations is permitted.	at a	pproximately the same time.
	(A)	Many outcomes	(B)	2 outcomes
	(C)	3 outcomes	(D)	1 outcome
	(E)	Answer not known		

157. Which datastructure is used for dynamic hashing technique?

- 160. Which failure refer to a list of problems that includes power or air conditioning failure, fire, theft, sabotage, overwriting disks or tapes by mistake and mounting of a wrong tape by the operator?
 - (A) System error
 - (B) Disk failure
 - (C) Catastrophes
 - (D) Concurrency control enforcement
 - (E) Answer not known
- 161. Weight and profit value of each item is as given below and w = 20

$$pi = \{30, 21, 18\}$$

$$wi = \{18, 15, 10\}$$

$$i = \{1, 2, 3\}$$

Compute the maximum optional profits using greedy method

- (A) $\sum wi \ xi = 16 \cdot 5$ and $\sum xi \ pi = 26 \cdot 5$
- (B) $\sum wi \ xi = 20 \ \text{and} \ \sum xi \ pi = 32 \cdot 8$
- (C) $\sum wi xi = 20$ and $\sum xi pi = 32$
- (D) $\sum wi \ xi = 20 \ \text{and} \ \sum xi \ pi = 30$
- (E) Answer not known

162. Complexity Analysis of Hamiltonian problem is

(A)
$$\frac{(n-1)^n - 1}{n-2}$$

(B)
$$\frac{(n-1)^{n+1}}{2n}$$

$$(C) \quad \frac{(n-1)^{2n}}{2n}$$

(D)
$$\frac{((n-1)(n-1)-1)}{2n^2-1}$$

(E) Answer not known

163. The time complexity of Strassen's matrix multiplication using divide and conquer method is

(A)
$$T = \theta \left(n^{\log_2 7} \right)$$

(B)
$$T = \theta \left(n^{2.81}\right)$$

(D)
$$T = \theta \left(n^2 \log n \right)$$

(E) Answer not known

164. Choose the correct method which is to keep a list of all elements that has to the same value using standard library implementations

- (A) Separate chaining
- (B) Hash with linked list

(C) Linear probing

- (D) Hash-sha-256 algorithm
- (E) Answer not known

- 165. Choose which is not correct about Amortized Analysis
 - (A) Finding average running time per operation over worst case
 - Assumes worst case input and does not allow random choice (B)
 - Time can be computers within one execution of algorithm (C)
 - Not similar to average case analysis (D)
 - (E) Answer not known
- 166. Using following Weighted Adjacency matrix and choose the all pair weight adjacency matrix

$$D^{(0)} = \begin{array}{ccc} 1 & 2 & 3 \\ 1 & 0 & 8 & 5 \\ 2 & 0 & \infty \\ 3 & \infty & 1 & 0 \end{array}$$

(A)
$$\begin{bmatrix} 0 & 6 & 5 \\ 2 & 0 & 7 \\ 3 & 1 & 0 \end{bmatrix}$$

(B)
$$\begin{bmatrix} 0 & 8 & 5 \\ 2 & 0 & 7 \\ 3 & 1 & 0 \end{bmatrix}$$
(D)
$$\begin{bmatrix} 0 & 8 & 5 \\ 0 & 0 & \infty \\ 3 & 1 & \infty \end{bmatrix}$$

(C)
$$\begin{bmatrix} 0 & 8 & 5 \\ 2 & 0 & 7 \\ \infty & 1 & 0 \end{bmatrix}$$

(D)
$$\begin{bmatrix} 0 & 8 & 5 \\ 0 & 0 & \infty \\ 3 & 1 & \infty \end{bmatrix}$$

(E) Answer not known

167.	The calle		leting an element from heap is
	(A)	Percolate down	(B) Percolate up
	(C)	Heapifying	(D) Minmax heap
	(E)	Answer not known	
168.		esent a key comparison and th	ng process by having a vertex le branches indicate the result is
	(A)	Binary tree	(B) Binary search tree
	(C)	AVL tree	(D) Decision tree
	(E)	Answer not known	
169.		rting technique that does not ory is called	use any intermediate auxiliary
	(A)	In place or out place sort	
	(B)	Internal or external sort	
	(C)	Comparison Vs distribution	
	(D)	Computation Vs distribution	
	(E)	Answer not known	
170.	In w	hich applications trees are risk	used?
	(A)	Set representation	(B) Decision trees
	(C)	Game trees	(D) Memory management
	(E)	Answer not known	

171.	of ———— using two titution method.				
	(A)	Quick sort	(B)	Bubble sort	
	(C)	Merge sort	(D)	Radix sort	
	(E)	Answer not known			
172.		sorting technique that is each is	ba	sed on divide-and-conquer	
	(A)	Selection sort	(B)	Insertion sort	
	(C)	Quick sort	(D)	Merge sort	
	(E)	Answer not known			
173.		hich tree the height of the left sub tree differ by not more that Red black tree AVL tree	n or (B)		
	(E)	Answer not known			
174.	74. A 10×12 matrix is implemented using array A [10] [12]. If the band address of array is 200 and the word size is 2 then compute address of the element A [4, 7] in row major order.				
	Assu	me that the lower bound of bot	h ro	w and column indices is 1.	
	(A)	284	(B)	326	
	(C)	282	(D)	280	
	(E)	Answer not known			

- (i) itr++ and ++itr \rightarrow advances the iterator itr to the next location.
- (ii) *itr \rightarrow returns a reference to the object store at iterator.
- (iii) itr1! = itr2 \rightarrow returns true if iterators itr1 and itr2 refer to a different location.
- (A) (i) and (ii)

(B) (i) and (iii)

(C) (ii) and (iii)

- (D) All the above
- (E) Answer not known
- 176. Name the date structure for the following snipped code or procedure struct node

```
int i;
struct node * NEXT;
struct node * previous;
};
typedef struct node NODE;
```

- (A) Doubly linked list-node
- (B) Single linked list-node
- (C) Circular linked list-node
- (D) Circular queue linked list-node
- (E) Answer not known

- 177. Which node pointers should be updated if a new node "B" is to be inserted in the middle of "A" and "C" nodes of singly linked list?
 - (i) NEXT pointer of A and NEXT pointer of C
 - (ii) NEXT pointer of B and NEXT pointer of C
 - (iii) NEXT pointer of B
 - (iv) NEXT pointer of A and NEXT pointer of B
 - (A) (i) and (ii)

(B) (ii)

(C) (iii) and (i)

(D) (iv)

- (E) Answer not known
- 178. Identify the correct statement about circular linked list.
 - (A) It allows complete list traversal starting from any of the node
 - (B) It allows complete list traversal only if we begin from the first node
 - (C) Next part of the last node is null
 - (D) Next part of first node is pointing to null
 - (E) Answer not known
- 179. Choose the type of double-ended queue.
 - (A) Input restricted dequeu
 - (B) Output restricted deque
 - (C) Linked list implementation of double ended queue
 - (D) (A) and (B)
 - (E) Answer not known

180.	the	1, 5, 8 are the st stack, then w ations.				_	-
		Push (11),					
		Pop()					
		Pop()					
		Pop()					
		Push (7)					
	(A)	11, 2, 1		(B)	8, 11, 7		
	(C)	7, 5, 8		(D)	5, 8, 7		
	(E)	Answer not kno	own				
181.	Mato	ch it					
]	List of objects in	Pı	arpose			

List of objects in JavaScript

(a) Math object

1. To obtain true or false values

(b) Number object

2. To obtaining date and time

(c) Date object 3. Numberic properties

(d) Boolean object 4. Mathematical computations

(b) (a) (c) (d) 3 (A) 4 1 2 (B) 3 1 4 3 2 (C) 4 1 2 3 (D) 4 1

(E) Answer not known

182.	separates the content area from the box's border in CSS.					
	(A)	Margin	(B)	Border		
	(C)	Padding	(D)	Edge		
	(E)	Answer not known				
183.	Choc &for	ose the suitable character <u>all</u> ;	for th	ne given entity reference		
	(A)	\bigcirc	(B)	\forall		
	(C)	α	(D)	&		
	(E)	Answer not known				
184.	Even	nt is an that represe	ents a	change in the environment.		
	(A)	Handler	(B)	Activity		
	(C)	Registration	(D)	Internet program		
	(E)	Answer not known				
185.	A Ca	nvas element is a				
	(A)	White rectangle	(B)	Black rectangle		
	(C)	Red rectangle	(D)	Green rectangle		
	(E)	Answer not known				

186.	Dom	makes	s it	possib	le for

(A) Establishing a browser history

(B) Javascript code to communicate with the browser

(C) Inspect the elements

(D) Establishing a communication between panel and web pages

(E) Answer not known

187. Output of the following assignment operators / expressions

let
$$x = 2$$
$$x+=2$$
$$x-=2$$
$$x^*=6$$
$$x/=3$$
$$x **=2$$

(A) 6

(B) 16

(C) 17

(D) 12

(E) Answer not known

188. Which of the following represents legal flow control statements in java?

(A) break;

(B) break();

(C) continue (inner);

(D) exit();

(E) Answer not known

	(A)	Process	(B)	Thread
	(C)	Thread scheduler	(D)	Process scheduler
	(E)	Answer not known		
190.	Give	n the code		
	strin	g s = new string ("abc");		
	Whic	ch of the following calls are vali	d?	
	(A)	s.toUppercase()	(B)	s.replace('a', 'A')
	(C)	s.strim()	(D)	both (A) and (B)
	(E)	Answer not known		
191.	Wha	t will be the result of the expre	ssior	n 13 and 25?
	(A)	38	(B)	25
	(C)	9	(D)	12
	(E)	Answer not known		
192.	The	jdbc API classes are supported	by tl	ne java package
	(A)	java.servlet.*	(B)	java.awt.*
	(C)	java.io.*	(D)	java.sql.*
	(E)	Answer not known		

189. What decides thread priority?

193.	Which	method is	used to	create a r	new instance	8 a	server	in nod	le.is	3?
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- (A) http.create instance()
- (B) http. newServer()
- (C) http. createServer()
- (D) http. createServer Instance()
- (E) Answer not known

194. Identify the correct definition of a package

- (A) A package is a collection of editing tools
- (B) A package is a collection of classes
- (C) A package is a collection of classes and interfaces
- (D) A package is a collection of interfaces
- (E) Answer not known

195. The payload of IPv4 datagram contains

- (A) 65,515 bytes of data
- (B) 4 gigabytes of data
- (C) 65,500 bytes of data
- (D) 65,536 bytes of data
- (E) Answer not known

196.	Which constructor of datagram socket is used to create a datagram socket and binds it with the port number?								
	(A)	Datagramsocket()							
	(B)	Datagramsocket (int port.net Address address)							
	(C)	Datagramsocket (int port)							
	(D)	Datagramsocket (inetAddre	Datagramsocket (inetAddress address)						
	(E)	Answer not known							
197.		interface enable at a client request.	s a servlet to obtain information						
	(A)	HttpservletRequest	(B) HttpservletResponse						
	(C)	HttpRequest	(D) HttpResponse						
	(E)	Answer not known							
198.	Which module in Node.js provides the EventEmitter class?								
	(A)	fs	(B) http						
	(C)	util	(D) events						
	(E)	Answer not known							
199.	The main purpose of Node.js event loop								
	(A)	(A) Processing synchronous tasks in order							
	(B)	<u> </u>							
	(C)	Handling asynchronous operations	tasks without blocking the I/O						
	(D)	Both (A) and (B)							
	(E)	Answer not known							
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200.	_	interface enables a semation that is associated with	s a servlet to read and write the stat with an HTTP session.			
	(A)	HttpRequest	(B)	HttpSession Response		
	(C)	HttpSession	(D)	HttpSession Request		
	(E)	Answer not known				