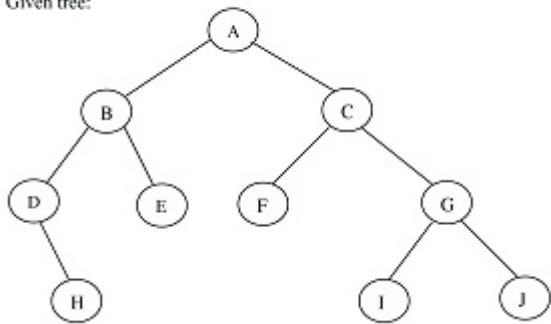


Sr · No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	1	<p>Number of edges in a fully connected graph with 20 nodes is</p> <p>A1 200 :</p> <p>A2 190 – (Correct Alternative) :</p> <p>A3 20 :</p> <p>A4 19 :</p>	10	0.25
Objective Question				
2	2	<p>The in-order traversal of the following tree is:</p> <p>Given tree:</p>  <pre> graph TD A((A)) --- B((B)) A --- C((C)) B --- D((D)) B --- E((E)) D --- H((H)) C --- F((F)) C --- G((G)) G --- I((I)) G --- J((J)) </pre> <p>A1 DHBEAFCIGJ – (Correct Alternative) :</p> <p>A2 ABDHECFGIJ :</p> <p>A3 HDEBFIJGCA :</p> <p>A4 None of the above :</p>	10	0.25

Objective Question				
3	3	<p>The pre-fix notation of $((A + B) * C - (D - E) ^ (F + G))$ is:</p> <p>A1 $^-*+ABC-DE+FG$: – (Correct Alternative)</p> <p>A2 $AB+C*DE--FG+^$:</p> <p>A3 $ABC+*DE-FG+^$:</p> <p>A4 None :</p>	1 . 0	0. 2 5
Objective Question				
4	4	<p>What files are automatically opened when a C file is executed</p> <p>A1 stdin :</p> <p>A2 stdout :</p> <p>A3 stderr :</p> <p>A4 All of the above – (Correct Alternative) :</p>	1 . 0	0. 2 5
Objective Question				
5	5	<p>Kruskal's algorithm is a greedy algorithm to find _____ in a graph</p> <p>A1 Shortest path if graph has positive weight edges :</p> <p>A2 Shortest path with both psotive and negative weight edges :</p> <p>A3 Minimum cost spanning tree – (Correct Alternative) :</p> <p>A4 None of the above</p>	1 . 0	0. 2 5

		:		
Objective Question				
6	6	<p>What will be the output of the following program?</p> <pre> main() { char *p; printf("%d %d ", sizeof(*p), sizeof(p)); } </pre> <p>A1 11 :</p> <p>A2 22 :</p> <p>A3 12 – (Correct Alternative) :</p> <p>A4 21 :</p>	1 . 0	0. 2 5
Objective Question				
7	7	<p>What will be the output of the following program?</p> <pre> main() { printf("%x", -1<<4); } </pre> <p>A1 ffff :</p> <p>A2 fff0 – (Correct Alternative) :</p> <p>A3 0fff :</p> <p>A4 None :</p>	1 . 0	0. 2 5
Objective Question				
8	8		1	0.

		<p>What will be the output of the following program?</p> <pre> main() { extern out; printf("%d", out); } int out=100; </pre> <p>A1 100 – (Correct Alternative) :</p> <p>A2 Compiler error :</p> <p>A3 Linker error :</p> <p>A4 None :</p>	.	2
			0	5

Objective Question

9	9	<p>What will be the output of the following program?</p> <pre> main() { char not; not=!2; printf("%d",not) ; } </pre> <p>A1 2 :</p> <p>A2 -2 :</p> <p>A3 0 – (Correct Alternative) :</p> <p>A4 None :</p>	1	0.
			.	2
			0	5

Objective Question

1	10	When does a page fault occur for a process p?	1	0.
0			.	2

		A1 : p is in blocked state A2 : p is in ready state A3 : page not in memory – (Correct Alternative) A4 : all of the above	0	5
Objective Question				
1 1	11	Which are states of a process? A1 : created A2 : running A3 : blocked A4 : all of the above – (Correct Alternative)	1 . 0	0. 2 5
Objective Question				
1 2	12	Round robin scheduling is A1 : preemptive – (Correct Alternative) A2 : non-preemptive A3 : can be preemptive or non-preemptive A4 : none	1 . 0	0. 2 5
Objective Question				

13	Assume a page size of 1K and a 20 bit logical address space. How many pages are there in the system?	10.25
A1	20	
:		
A2	2^{10} – (Correct Alternative)	
:		
A3	2^{20}	
:		
A4	none	
:		

Objective Question

14	A particular system uses page size of 1K. A page table for a particular process is [2,*,3,8,*]. What physical address corresponds to the virtual address of 100?	10.25
A1	100	
:		
A2	2048	
:		
A3	2148 – (Correct Alternative)	
:		
A4	1024	
:		

Objective Question

15	Key to represent relationship between tables is called	10.25
A1	Primary key	
:		
A2	Secondary key	
:		
A3	Foreign key – (Correct Alternative)	
:		
A4	None of the above	

		:		
Objective Question				
16	1	A relation schema R is in 1NF. Every non-prime attribute A in R is fully functionally dependent on primary key. R is in	10.	
6		<p>A1 1NF</p> <p>A2 2NF – (Correct Alternative)</p> <p>A3 3NF</p> <p>A4 All of the above</p>	05	
Objective Question				
17	1	Select name, course_id from instructor, teaches where instructor_ID=teaches_ID;	10.	
7		<p>This Query can be replaced by which one of the following ?</p> <p>A1 Select name,course_id from teaches,instructor where instructor_id=course_id;</p> <p>A2 Select name, course_id from instructor natural join teaches; – (Correct Alternative)</p> <p>A3 Select name ,course_id from instructor;</p> <p>A4 Select course_id from instructor join teaches;</p>	05	
Objective Question				
18	1	Which if the following is not the type of data integrity	10.	
8		<p>A1 Key integrity – (Correct Alternative)</p> <p>A2 Domain integrity</p>	05	

		<p>A3 Entity integrity :</p> <p>A4 Referential integrity :</p>		
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Objective Question

19	1	<p>Consider the relation PLAYER with relation Player-name, Team, Team-color, Coach-no, Cc captain) and set of functional dependencies as fo $F = \{ \text{Player-no} \rightarrow \text{Player-name}, \text{Player-no} \rightarrow \text{P}$ $\text{Coach-no} \rightarrow \text{Coach-name}, \text{Team} \rightarrow \text{Team-col}$ $\text{Team-captain} \}$. This relation is</p> <p>A1 2NF – (Correct Alternative) :</p> <p>A2 3NF :</p> <p>A3 both 2NF and 3NF :</p> <p>A4 neither 2NF nor 3NF :</p>	10.25	
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Objective Question

20	20	<p>Consider the following set of network protocols i. DHCP ii. SMTP iii. HTTP iv. TFTP v. FTP. Which of the following use TCP?</p> <p>A1 i. and ii. :</p> <p>A2 ii.,iii. and v. – (Correct Alternative) :</p> <p>A3 i., ii. and iv. :</p>	10.25	
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		A4 : i., iii. and iv		
Objective Question				
21	1	<p>Which statements are true regarding ICMP packets?</p> <p>i. They acknowledge receipt of a TCP segment.</p> <p>ii. They guarantee datagram delivery.</p> <p>iii. They can provide hosts with information about network problems.</p> <p>iv. They are encapsulated within IP datagrams.</p> <p>A1 : i. only</p> <p>A2 : ii. and iii.</p> <p>A3 : iii. and iv. – (Correct Alternative)</p> <p>A4 : ii., iii. and iv.</p>	1 . 0	0. 2 5
Objective Question				
22	2	<p>Which of the following statements are true?</p> <p>i. Link state sends its complete routing table on all active interfaces at periodic time intervals.</p> <p>ii. Distance vector sends its complete routing table on all active interfaces at periodic time intervals.</p> <p>iii. Link state sends updates the state of its own links to all routers in the internetwork.</p> <p>iv. Distance vector updates the state of its own links to all routers in the internetwork.</p> <p>A1 : i. only</p> <p>A2 : iii. Only</p> <p>A3 : ii. and iii. only – (Correct Alternative)</p>	1 . 0	0. 2 5

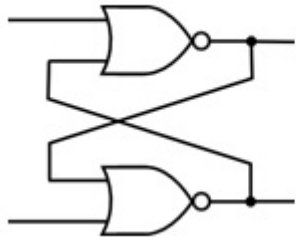
		A4 : none of the above		
Objective Question				
23		For a 50 Mbps channel on a geo-stationary satellite with 540 msec round trip delay, the bandwidth delay product is	10.25	
		A1 : 540 megabits		
		A2 : 50 megabits		
		A3 : 27 megabits – (Correct Alternative)		
		A4 : 10.8 megabits		
Objective Question				
24		NFA stands for	10.25	
		A1 : Non-Finite Automaton		
		A2 : Nondeterministic Fixed Automaton		
		A3 : Nonlinear Finite Automaton		
		A4 : Nondeterministic Finite Automaton – (Correct Alternative)		
Objective Question				
25		Which of the following statements is true?	10.25	
		A1 If a language is context free it can always be accepted by a deterministic push-down automaton		
		A2 The union of two context free languages is context free – (Correct Alternative)		

		<p>A3 The intersection of two context free languages is context free</p> <p>:</p> <p>A4 The complement of a context free language is context free</p> <p>:</p>		
Objective Question				
26	6	<p>Which of the following functions is NOT in $O(n^2)$?</p> <p>A1 $n \log n$</p> <p>:</p> <p>A2 $n^2 + 2n$</p> <p>:</p> <p>A3 $(n - 1)!$ – (Correct Alternative)</p> <p>:</p> <p>A4 $n + (1/n)$</p> <p>:</p>	1 . 0	0. 2 5
Objective Question				
27	7	<p>How many internal nodes can a binary tree with n leaves have?</p> <p>A1 Exactly $n-1$ – (Correct Alternative)</p> <p>:</p> <p>A2 Exactly n</p> <p>:</p> <p>A3 Any number between 0 and n</p> <p>:</p> <p>A4 Any number greater than or equal to $n-1$</p> <p>:</p>	1 . 0	0. 2 5
Objective Question				
28	8	<p>Is it possible to sort an array of n 32-bit integers in $O(n)$ time?</p> <p>A1 Yes, using insertion sort</p> <p>:</p> <p>A2 Yes, using merge sort</p>	1 . 0	0. 2 5

		<p>:</p> <p>A3 Yes, using radix sort – (Correct Alternative)</p> <p>:</p> <p>A4 No, any sorting algorithm must take $O(n \log n)$ time</p> <p>:</p>		
Objective Question				
29	2	<p>The predicate formula "not (for all x: $P(x)$ implies $Q(x)$)" is equivalent to</p> <p>A1 exists x: (not $P(x)$) and $Q(x)$</p> <p>:</p> <p>A2 exists x: $P(x)$ and (not $Q(x)$) – (Correct Alternative)</p> <p>:</p> <p>A3 for all x: (not $P(x)$) and $Q(x)$</p> <p>:</p> <p>A4 for all x: $P(x)$ and (not $Q(x)$)</p> <p>:</p>	10.25	
Objective Question				
30	30	<p>"If n values are stored in a hash table with $n-1$ entries, there must be at least one collision." This is an application of the</p> <p>A1 Handshaking lemma</p> <p>:</p> <p>A2 Inclusion exclusion principle</p> <p>:</p> <p>A3 Intermediate value theorem</p> <p>:</p> <p>A4 Pigeonhole principle – (Correct Alternative)</p> <p>:</p>	10.25	
Objective Question				
31	31	<p>Which of the following gates can be used to construct any of the others?</p> <p>A1 AND</p>	10.25	

		: A2 : NAND – (Correct Alternative) A3 : NOT A4 : XOR		
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Objective Question

3 2	32	<p>What type of component is the following circuit?</p>  <p>A1 : Adder</p> <p>A2 : Flip-flop – (Correct Alternative)</p> <p>A3 : Multiplexer</p> <p>A4 : Oscillator</p>	1 . 0	0. 2 5
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Objective Question

3 3	33	<p>An assembler performs translation between what types of code?</p> <p>A1 : High-level source code to assembly code</p> <p>A2 : Assembly code to machine code / object code</p> <p>A3 : Assembly code to high-level code – (Correct Alternative)</p>	1 . 0	0. 2 5
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		<p>:</p> <p>A4 All of the above</p> <p>:</p>		
Objective Question				
34	34	<p>Arrange the following in increasing order of latency: (1) cache, (2) hard disk drive, (3) RAM</p> <p>A1 1,2,3</p> <p>:</p> <p>A2 1,3,2 – (Correct Alternative)</p> <p>:</p> <p>A3 3,1,2</p> <p>:</p> <p>A4 3,2,1</p> <p>:</p>	10.25	
Objective Question				
35	35	<p>Which of the following is not an example of a stable sorting algorithm ?</p> <p>A1 Insertion Sort</p> <p>:</p> <p>A2 Mergesort</p> <p>:</p> <p>A3 Quicksort – (Correct Alternative)</p> <p>:</p> <p>A4 Bubblesort</p> <p>:</p>	10.25	
Objective Question				
36	36	<p>Locks are used for</p> <p>A1 protect the tampering of data</p> <p>:</p> <p>A2 protect the leaking of data</p>	10.25	

		: A3 : synchronization among threads – (Correct Alternative) A4 : all of the above		
--	--	--	--	--

Objective Question

37	malloc is used for	10.
7	A1 : memory management – (Correct Alternative) A2 : network management A3 : disk management A4 : all of the above	. 2 0 5

Objective Question

38	What will be the output of the following program? main() { int i = 5; printf("%d", i--); while(i--); printf("%d", i); }	10.
8	A1 40 : A2 : 50 – (Correct Alternative) A3 54 : A4 Does not terminate :	. 2 0 5

Objective Question				
39	39	Which of the following is not a phase in a compiler?	10.25	
		A1 : lexical analysis		
		A2 : syntax analysis		
		A3 : semantic analysis		
		A4 : program analysis – (Correct Alternative)		
Objective Question				
40	40	A network using CSMA/CD has a bandwidth of 100Mbps. If the maximum propagation time (including the delays in the devices and ignoring the time needed to send a jamming signal) is 31 us. What is minimum size of the frame?	10.25	
		A1 : 6200 bits – (Correct Alternative)		
		A2 : 3100 bits		
		A3 : No minimum size		
		A4 : 100 bits		
Objective Question				
41	41	The data storage hierarchy consists of	10.25	
		A1 : Bits, bytes, fields, records, files and databases – (Correct Alternative)		
		A2 : Bits, bytes, records, fields, files and databases		
		A3 : Bits, bytes, fields, files, records and databases		

		A4 : Bytes, bits, fields, records, files and databases		
Objective Question				
4 2	42	<p>Which of the following statement(s) is/are TRUE?</p> <p>S1 : The decimal number 11 is larger than the hexadecimal number 11.</p> <p>S2 : In the binary number 1110.101, the fractional part has the decimal value as 0.625.</p> <p>A1 : S1 only</p> <p>A2 : S2 only – (Correct Alternative)</p> <p>A3 : Both S1 and S2</p> <p>A4 : Neither S1 nor S2</p>	1 . 0	0. 2 5
Objective Question				
4 3	43	<p>In a Computer a byte generally consists of</p> <p>A1 : 4 bits</p> <p>A2 : 8 bits – (Correct Alternative)</p> <p>A3 : 16 bits</p> <p>A4 : 10 bits</p>	1 . 0	0. 2 5
Objective Question				
4 4	44	<p>Which of the following is not an input device?</p> <p>A1 : Microphone</p> <p>A2 Keyboard</p>	1 . 0	0. 2 5

		:		
		A3 Joystick		
		:		
		A4 Monitor – (Correct Alternative)		
		:		

Objective Question

4 5	45	Encoding or scrambling data for transmission across a network is known as	1 . 0	0. 2 5
		A1 Protection		
		:		
		A2 Detection		
		:		
		A3 Encryption – (Correct Alternative)		
		:		
		A4 Decryption		
		:		

Objective Question

4 6	46	Which one of the following represents the binary equivalent of the decimal number 25?	1 . 0	0. 2 5
		A1 10101		
		:		
		A2 1101		
		:		
		A3 11001 – (Correct Alternative)		
		:		
		A4 11011		
		:		

Objective Question

4 7	47	Symbols A-F are used in which one of the following?	1 . 0	0. 2 5
		A1 Binary number system		

		: A2 : Decimal number system A3 : Hexadecimal number system – (Correct Alternative) A4 : Octal number system		
Objective Question				
48	48	Internal communication within institutions is done through A1 : LAN – (Correct Alternative) A2 : WAN A3 : EBB A4 : MMS	10. .2 05	
Objective Question				
49	49	A hard disk is divided into tracks which is further subdivided into A1 : Clusters A2 : Sectors – (Correct Alternative) A3 : Vectors A4 : Head	10. .2 05	
Objective Question				
50	50	When inorder traversing a tree resulted E A C K F H D B G; the preorder	10. .2	

		traversal would return	0	5
		A1 : FAEKCDBHG		
		A2 : FAEKCDHGB – (Correct Alternative)		
		A3 : EAFKHDCBG		
		A4 : FEAKDCHBG		
Objective Question				
51	1	What is the term used to refer to one billion gigabytes?	1	0.
		A1 : Zettabyte	0	2
		A2 : Petabyte		5
		A3 : Yottabyte		
		A4 : Exabyte – (Correct Alternative)		
Objective Question				
52	2	A browser can retrieve and run an HTML file that has embedded address of:	1	0.
		A1 : Applets – (Correct Alternative)	0	2
		A2 : Language		5
		A3 : HTML		
		A4 : HTTP		

Objective Question				
53	53	<p>A Digital signature needs a:</p> <p>A1 Private-key system</p> <p>A2 Shared-key system</p> <p>A3 Public-key system – (Correct Alternative)</p> <p>A4 All of them</p>	10.25	
Objective Question				
54	54	<p>Security in a _____ has to happen at the site where the data transfer begins, because data has to be encrypted before it is sent.</p> <p>A1 Public Cloud</p> <p>A2 Mix Cloud</p> <p>A3 Hybrid Cloud – (Correct Alternative)</p> <p>A4 Service Cloud</p>	10.25	
Objective Question				
55	55	<p>HTML stands for</p> <p>A1 Home Tool Markup Language</p> <p>A2 Hyper Text Markup Language – (Correct Alternative)</p> <p>A3 Hyperlinks and Text Markup Language</p> <p>A4 None of the above</p>	10.25	

		:		
Objective Question				
56		<p>The access method used for magnetic tape is</p> <p>A1 Direct</p> <p>A2 Random</p> <p>A3 Sequential – (Correct Alternative)</p> <p>A4 None of the above</p>	10	0.25
Objective Question				
57		<p>Which of the following holds the ROM, CPU, RAM and expansion cards</p> <p>A1 Hard Disk</p> <p>A2 Floppy Disk</p> <p>A3 Motherboard – (Correct Alternative)</p> <p>A4 None</p>	10	0.25
Objective Question				
58		<p>Actual execution of instruction in a computer takes place in</p> <p>A1 ALU – (Correct Alternative)</p> <p>A2 Control Unit</p> <p>A3 Storage Unit</p>	10	0.25

		A4 : Motherboard		
Objective Question				
59		Modem stands for A1 : A type of secondary memory A2 : Modulator Demodulator – (Correct Alternative) A3 : Mainframe operating device memory A4 : Audio Device	10. .2 05	
Objective Question				
60		How many layers does OSI Reference Model has? A1 : 4 A2 : 5 A3 : 6 A4 : 7 – (Correct Alternative)	10. .2 05	
Objective Question				
61		FERA stands for A1 : Foreign Exchange Regulation Act – (Correct Alternative) A2 : Foreign Exchange Restrictions Act A3 : Foreign Exchange Reserves Act	10. .2 05	

		: A4 None of these :		
Objective Question				
62	62	Which is India's highest civilian honour? A1 Ashoka Chakra : A2 Padma Bhushan : A3 Padma Sri : A4 One of the above – (Correct Alternative) :	1 . 0	0. 2 5
Objective Question				
63	63	The ozone layer is part of the A1 Troposphere : A2 Stratosphere – (Correct Alternative) : A3 Ionosphere : A4 Mesosphere :	1 . 0	0. 2 5
Objective Question				
64	64	What is the currency of Indonesia? A1 Rupiah – (Correct Alternative) : A2 Dinar :	1 . 0	0. 2 5

		<p>A3 Riyal :</p> <p>A4 Rangit :</p>		
Objective Question				
65	65	<p>Israel's Rafale Defence Systems Ltd has formed a joint venture with _____ to produce anti-tank guided missiles for the Indian armed forces</p> <p>A1 Goa Shipyard :</p> <p>A2 Hindustan Aeronautics Limited :</p> <p>A3 Kalyani Group – (Correct Alternative) :</p> <p>A4 None of the above :</p>	10. .2 05	
Objective Question				
66	66	<p>Method used for separation of water and alcohol is:</p> <p>A1 Evaporation :</p> <p>A2 Filtration :</p> <p>A3 Distillation – (Correct Alternative) :</p> <p>A4 Decantation :</p>	10. .2 05	
Objective Question				
67	67	<p>The estimation of the age of the earth is done by:</p> <p>A1 Uranium dating – (Correct Alternative) :</p>	10. .2 05	

		A2 Carbon dating : A3 Atomic clock : A4 Bio clock :		
Objective Question				
68	68	Which gas is used to disinfect the drinking water? A1 Hydrogen : A2 Chlorine – (Correct Alternative) : A3 Fluorine : A4 Oxygen :	10.25	
Objective Question				
69	69	The ‘Concept of Inertia’ was developed by: A1 Galileo – (Correct Alternative) : A2 Newton : A3 Einstein : A4 Archimedes :	10.25	
Objective Question				
70	70	Maximum portion of the moon visible from the earth’s surface is: A1 50%	10.25	

		<p>:</p> <p>A2 : 59% – (Correct Alternative)</p> <p>A3 : 41%</p> <p>A4 : 47%</p>		
Objective Question				
71	71	<p>To deprive someone of voting rights is</p> <p>A1 : Disfranchise</p> <p>A2 : Disenfranchise – (Correct Alternative)</p> <p>A3 : Unfranchise</p> <p>A4 : franchise</p>	10.25	
Objective Question				
72	72	<p>Where you are today, _____ What counts is where you are going.</p> <p>A1 : Do not count</p> <p>A2 : Doesn't count – (Correct Alternative)</p> <p>A3 : Not count</p> <p>A4 : Isn't count</p>	10.25	
Objective Question				
73	73	<p>The Prime Minister wants to call an all-party meeting to break the</p>	10.2	

		stalemate _____ this issue and _____ a consensus.	0	5
		A1 : on, win		
		A2 : at, develop		
		A3 : of, capture		
		A4 : on, reach – (Correct Alternative)		

Objective Question

74		It was a great _____ to _____ the high-level meeting between America and India.	1	0.
4			.	2
			0	5
		A1 : favour, part		
		A2 : time, participate		
		A3 : honour, witness – (Correct Alternative)		
		A4 : period, watch		

Objective Question

75		Internet has _____ revolutionised the world of _____ and knowledge.	1	0.
5			.	2
			0	5
		A1 : become, media		
		A2 : really, college		
		A3 : probably, application		
		A4 indeed, information – (Correct Alternative)		

		:		
Objective Question				
76	76	The antonym of Discrepancy	10	0.25
		A1 inconsistency		
		A2 consistency – (Correct Alternative)		
		A3 inappropriate		
		A4 variance		
Objective Question				
77	77	The antonym of Dismal is	10	0.25
		A1 remarkable – (Correct Alternative)		
		A2 trivial		
		A3 reserved		
		A4 puzzled		
Objective Question				
78	78	They finally saw _____ on the business deal.	10	0.25
		A1 face to face		
		A2 eye to eye – (Correct Alternative)		
		A3 eye and eye		

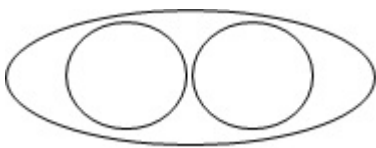
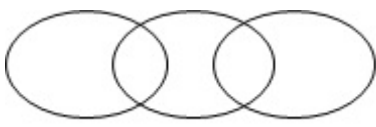
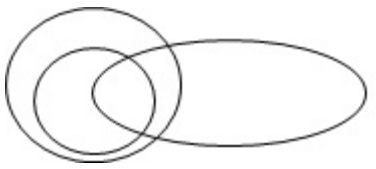
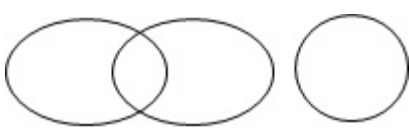
		A4 : hand on hand		
Objective Question				
79		By working part-time and looking after her kids two days a week she managed to _____	10.	25
		A1 : get the pie		
		A2 : take the pie		
		A3 : have the cake and eat it too		
		A4 : get the best of both worlds – (Correct Alternative)		
Objective Question				
80		Tick the word closest in meaning to the word in italics- a <i>baffling</i> problem:	10.	25
		A1 : difficult		
		A2 : simple		
		A3 : puzzling – (Correct Alternative)		
		A4 : long		
Objective Question				
81		Which of the below pair has the same relationship for Revolution: Change?	10.	25
		A1 : Disease : Medicine		
		A2 : Treaty : Peace – (Correct Alternative)		

		<p>A3 Food : Energy :</p> <p>A4 Famous : Notorious :</p>		
Objective Question				
82	82	<p>If in a certain language MYSTIFY is coded as NZTUJGZ, how is NEMISES coded in that code?</p> <p>A1 MDLHRDR :</p> <p>A2 OFNJTFT – (Correct Alternative) :</p> <p>A3 ODNHTDR :</p> <p>A4 PGOKUGU :</p>	10. .2 05	
Objective Question				
83	83	<p>If Chi Kai Shi means Earth is round; Chu Chin Chi means Banana is sweet; Kulshak Kai means Balls are round, then which letter code stands for Earth?</p> <p>A1 Chi :</p> <p>A2 Shi – (Correct Alternative) :</p> <p>A3 Kai :</p> <p>A4 Chu :</p>	10. .2 05	
Objective Question				
84	84	<p>A+B means A is the son of B; A–B means A is the wife of B; AXB means A is the brother of B; A/B means A is the mother of B; and A=B means A is the sister of B? What does P+R–Q mean?</p>	10. .2 05	

		<p>A1 : Q is the father of P – (Correct Alternative)</p> <p>A2 : Q is the son of P</p> <p>A3 : Q is the uncle of P</p> <p>A4 : Q is the brother of P</p>		
Objective Question				
85	85	<p>Six persons A, B, C, D, E and F are sitting in two rows, three in each. E is not at the end of any row. D is the second to the left of F. C, the neighbor of E, is sitting diagonally opposite to D. B is the neighbor of F. Which of the following are sitting diagonally opposite to each other?</p> <p>A1 : F and C</p> <p>A2 : D and A</p> <p>A3 : A and C</p> <p>A4 : A and F – (Correct Alternative)</p>	1 . 0	0. 2 5
Objective Question				
86	86	<p>Abhinav walked 2 km west of his house and then turned south covering 4 km. Finally, he moved 3 km towards east and then again 1 km west. How far is he from his initial position?</p> <p>A1 : 2 km</p> <p>A2 : 4 km – (Correct Alternative)</p> <p>A3 : 9 km</p>	1 . 0	0. 2 5

		A4 : 10 km		
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Objective Question

87	87	Which of the following diagrams correctly represents elephants, wolves, and animals?	10.
7		<p>A1 :  – (Correct Alternative)</p> <p>A2 : </p> <p>A3 : </p> <p>A4 : </p>	025

Objective Question

88	88	If by arranging the letters of the word NABMODINT, the name of a game is formed, what are the first and last letter of the word so formed.	10.
8		<p>A1 : B, T</p> <p>A2 : M, T</p> <p>A3 : B, N – (Correct Alternative)</p> <p>A4 : M, N</p>	025

Objective Question

89	89	<p>If + means \div, - means \times, \div means +, and \times means -, then $36 \times 12 \div 4 \div 6 + 2 - 3 =$ _____.</p> <p>A1 2 :</p> <p>A2 18 :</p> <p>A3 42 – (Correct Alternative) :</p> <p>A4 12 :</p>	10. .2 05
Objective Question			
90	90	<p>Considering α means greater than, if $3A \alpha B$ and $3B \alpha 2C$, then</p> <p>A1 $2A \alpha C$:</p> <p>A2 $4A \alpha B$:</p> <p>A3 $4A \alpha C$ – (Correct Alternative) :</p> <p>A4 $2A \alpha B$:</p>	10. .2 05
Objective Question			
91	91	<p>Choose the group of letters which is different from others in the group of BCD, KMN, QRS, GHI, and WXY</p> <p>A1 KMN – (Correct Alternative) :</p> <p>A2 GHI :</p> <p>A3 WXY :</p> <p>A4 BCD</p>	10. .2 05

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Objective Question				
92	92	The unit's digit in the product $(3127)^{173}$ is _____.	10	0.
2		A1 1 :	.	2
		A2 3 :	0	5
		A3 7 – (Correct Alternative) :		
		A4 9 :		
Objective Question				
93	93	5b2 is a three-digit number with b as a missing digit. If the number is divisible by 6, the missing digit is _____.	10	0.
3		A1 2 – (Correct Alternative) :	.	2
		A2 3 :	0	5
		A3 6 :		
		A4 7 :		
Objective Question				
94	94	How many of the following numbers are divisible by 132? 264, 396, 462, 792, 968, 2178, 5184, 6336	10	0.
4		A1 4 – (Correct Alternative) :	.	2
		A2 5 :	0	5

		<p>A3₆ :</p> <p>A4₇ :</p>		
Objective Question				
95	95	<p>The sum of three consecutive odd numbers is always divisible by_____.</p> <p>I. 2 II. 3 III. 5 IV. 6</p> <p>A1 Only I :</p> <p>A2 Only II – (Correct Alternative) :</p> <p>A3 Only I and II :</p> <p>A4 Only II and IV :</p>	10. .2 05	
Objective Question				
96	96	<p>The least number which must be subtracted from 6709 to make it exactly divisible by 9 is_____.</p> <p>A1₂ :</p> <p>A2₃ :</p> <p>A3₄ – (Correct Alternative) :</p> <p>A4₅ :</p>	10. .2 05	
Objective Question				
97	97	<p>When a number is divided by 31, the remainder is 29. When the same number is divided by 16, what will be the remainder?</p> <p>A1 11</p>	10. .2 05	

		: A2 : 13 A3 : 15 A4 : Data inadequate – (Correct Alternative)		
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Objective Question

98		The average of first 10 even numbers is _____.	10.
8		A1 : 18	25
		A2 : 22	0
		A3 : 9	
		A4 : 11 – (Correct Alternative)	

Objective Question

99		A man can row his boat with the stream at 6 km/h and against the stream in 4 km/h. The man's rate is _____ km/h	10.
9		A1 : 1 – (Correct Alternative)	25
		A2 : 5	0
		A3 : 8	
		A4 : 3	

Objective Question

1 0 0	100	<p>If Rs.7500 are borrowed at Compound Interest at the rate of 4% per annum, then after 2 years the amount to be paid is _____.</p> <p>A1 8112 – (Correct Alternative) :</p> <p>A2 8100 :</p> <p>A3 7900 :</p> <p>A4 8000 :</p>	1 0 0	0. 2 5
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Objective Question

1 0 1	101	<p>If the cost of M meters of wire is R rupees, then what would be the cost of N meters of same wire at the same rate?</p> <p>A1 $(R/M).N$ – (Correct Alternative) :</p> <p>A2 (R/MN) :</p> <p>A3 $(M/N).R$:</p> <p>A4 (RM/N) :</p>	1 0 0	0. 2 5
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Objective Question

1 0 2	102	<p>A seller gives a discount of 4% on a product with MRP marked INR 1500. He earned a profit of 20% over its cost price in this transaction. Cost price of the product is</p> <p>A1 1200 – (Correct Alternative) :</p> <p>A2 1500 :</p> <p>A3 1600 :</p>	1 0 0	0. 2 5
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		A4 1000 :		
Objective Question				
103		<p>If the sides of a rectangle are increased by 30%, what will be the percentage increase in the area of the rectangle?</p> <p>A1 44% :</p> <p>A2 40% :</p> <p>A3 64% :</p> <p>A4 69% – (Correct Alternative) :</p>	10.25	
Objective Question				
104		<p>If $A + B = 99$, and B is half of A, then the value of A and B is?</p> <p>A1 33, 66 :</p> <p>A2 66, 33 – (Correct Alternative) :</p> <p>A3 77, 22 :</p> <p>A4 22, 77 :</p>	10.25	
Objective Question				
105		<p>What will be the unit's digit in $(564)^{202} + (564)^{203}$</p> <p>A1 4 :</p> <p>A2 6 :</p>	10.25	

		<p>A3 0 – (Correct Alternative)</p> <p>A4 2</p>		
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Objective Question

106	<p>Three varieties of tea called A, B and C respectively are mixed in the ratio of 2:1:3 to yield a mixture worth Rs 155 per kg. If the price of A is 120 per kg, and that of B is 150 per kg; what is the price of 2 kgs of C?</p> <p>A1 450</p> <p>A2 360 – (Correct Alternative)</p> <p>A3 300</p> <p>A4 270</p>	10.25
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Objective Question

107	<p>A sum of money grows to Rs 325 when it is invested at 5% per annum simple interest. If same amount of money is invested for 4% it grows to Rs 312. How long was the money invested for?</p> <p>A1 4 Years</p> <p>A2 7 Years</p> <p>A3 5 Years – (Correct Alternative)</p> <p>A4 10 Years</p>	10.25
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Objective Question

108	<p>A shopkeeper provides successive discounts of 20% and 10% on an article, yet he manages to earn a profit of 8%. The selling price of the article is Rs 1296.</p>	10.25
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		<p>The difference between the cost price and marked price is</p> <p>A1 400 :</p> <p>A2 500 :</p> <p>A3 600 – (Correct Alternative) :</p> <p>A4 800 :</p>		
Objective Question				
109		<p>Tap A can fill a tank in 9 hours and tap B can fill in 6 hours. Tap A is opened at 8:00 AM and tap B is opened at 11:00 AM. Time at which the tank would be filled is</p> <p>A1 1:00 PM :</p> <p>A2 1:24 PM – (Correct Alternative) :</p> <p>A3 1:20 PM :</p> <p>A4 1:30 PM :</p>	10.25	
Objective Question				
110		<p>The average score of section A, B and C of a class is 75, 76 and 80 respectively. The numbers of students in three sections are in ratio 1:2:3. Average scores of all the sections combined is?</p> <p>A1 77.57 :</p> <p>A2 78.59 :</p> <p>A3 76.93 :</p>	10.25	

		A4 : 77.83 – (Correct Alternative)		
Objective Question				
1 1 1	111	<p>A doctor invents a kit to diagnose blood sugar levels. Such a kit is :</p> <p>A1 : Patentable – (Correct Alternative)</p> <p>A2 : Copyrightable</p> <p>A3 : Non patentable</p> <p>A4 : Trade mark related</p>	1 . 0	0. 2 5
Objective Question				
1 1 2	112	<p>Cinematographic films and sound recordings can be protected under:</p> <p>A1 : Design</p> <p>A2 : Trade Dress</p> <p>A3 : Copyright – (Correct Alternative)</p> <p>A4 : Patent</p>	1 . 0	0. 2 5
Objective Question				
1 1 3	113	<p>_____ is a registered geographical indication in India:</p> <p>A1 : Samosa</p> <p>A2 : Burfi</p> <p>A3 : Tirupatiladdu – (Correct Alternative)</p>	1 . 0	0. 2 5

		: A4 GulabJamun :		
Objective Question				
1 1 4	114	<p>In India, how long does copyright last for literary works?</p> <p>A1 : 10 years after the creation of the work</p> <p>A2 : 50 years after the creation of the work</p> <p>A3 : 10 years after the death of the person who created that work</p> <p>A4 60 years after the death of the person who created that work – (Correct Alternative)</p>	1 . 0	0. 2 5
Objective Question				
1 1 5	115	<p>A group of researchers have developed a new technology which is which is an improvement over the technology used in existing mobile phones available in the market. What type of intellectual property can they use to stop others from copying their invention?</p> <p>A1 : Copyright</p> <p>A2 : Geographical indications</p> <p>A3 Patents – (Correct Alternative)</p> <p>A4 : Trademarks</p>	1 . 0	0. 2 5
Objective Question				
1 1 6	116	<p>WIPO stands for :</p> <p>A1 : World International Protection Office</p>	1 . 0	0. 2 5

		<p>A2 : World Indian Protection Office</p> <p>A3 : World Intellectual Protection Office</p> <p>A4 : World Intellectual Property Organisation – (Correct Alternative)</p>		
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Objective Question

1 1 7	117	<p>A patent gives the owner the right to:</p> <p>A1 : Collect a monetary award from the government</p> <p>A2 Prevent others from making, using or selling their invention – (Correct Alternative)</p> <p>A3 : Make the invention</p> <p>A4 : Market the product free of cost</p>	1 . 0	0. 2 5
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Objective Question

1 1 8	118	<p>Which of the following will violate the IP rights of Late ShriAtalBihari Vajpayee, a former Prime Minister.</p> <p>A1 : Republishing a picture of him while reciting a poetry during kaviSamelan</p> <p>A2 : Rebroadcasting the speech he gave from Red Fort in 2000.</p> <p>A3 Reprinting of his autobiography published by him in 2002. – (Correct Alternative)</p> <p>A4 : None of the above as he has passed away.</p>	1 . 0	0. 2 5
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Objective Question

1 1 9	119	<p>What is the duration of copyright protection of a novel?</p>	1 . 0	0. 2 5
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		<p>A1 : A novel will not gain copyright protection</p> <p>A2 : The day the author dies</p> <p>A3 : The end of the calender year in which the author died</p> <p>A4 60 years from the end of the calender year in which the author died – : (Correct Alternative)</p>		
Objective Question				
1 2 0	120	<p>A provisional patent was applied for on 1 Jan 1999. The application was converted into final specification and filed on 1 July 1999. It was published 18 months later on Jan1, 2001 and granted on May 30, 2003. The patent is valid until what date?</p> <p>A1 : May 29,2023</p> <p>A2 : Dec. 31, 2019</p> <p>A3 : June 30,2019</p> <p>A4 Dec. 31,2018 – (Correct Alternative)</p>		