

ST. LAWRENCE HIGH SCHOOL

27, BALLYGUNGE CIRCULAR ROAD



Class	s : 12	Subject : COMPUTER APPLICATION	Term: FIRST TERM	Max Mar	ks : 60
Q1:	Which of the followi	ng is true for AND gate?		Marks :	1
	1 . 1.1 = 0				
	2. 1.1=1		(This Answer is Correct)		
	3 . 0.1=1				
	4. None of these				
Q 2 :	What is the output f	or (1+0)' ?		Marks :	1
	1. 1				
	2. 0		(This Answer is Correct)		
	3. 10				
	4. None of these				
Q 3 :	What is the output f	or (1.0)' ?		Marks :	1
	1. 1		(This Answer is Correct)		
	2. 0		_		
	3. 10				
	4. None of these				
Q4:	This is a self-descril	bing, stored collection of inter related	data:	Marks :	1
	1 database		(This Answer is Correct)		
	2 . database instance	e	_		
	3 . reference				
	4. None of these				
Q 5 :	All types of logic ga	tes can be formed by suitable combir	nations of gates only:	Marks :	1
	1. NOT				
	2. AND				
	3. NOR		(This Answer is Correct)		
	4. XOR		_		

Q6:	How many NAND gate(s) are required to form an AND gate?		Marks :	1
40.	1. 1			
	2. 2	(This Answer is Correct)		
	3. 3			
	4. 4			
Q7:	How many NAND gate(s) are required to form an OR gate?		Marks :	1
	1. 1			
	2. 2			
	3. 3	(This Answer is Correct)		
	4. 4			
Q8:	The output of a 2 input XOR gate with inputs A and B is given by:		Marks :	1
	1. AB			
	2. A'. B + A . B'	(This Answer is Correct)		
	3 . A'.B' + A.B	_		
	4 . A+B			
Q9:	How many NOR gate(s) are required to form an AND gate? :		Marks :	1
	1.3	(This Answer is Correct)		
	2. 2	_		
	3. 1			
	4 . None of these			
Q 10 :	A'. B + A . B' may also be represented as:		Marks :	1
	1. A ⊕ B	(This Answer is Correct)		
	2. A.B			
	3. A+B			
	4 . (A ⊕ B)'			
Q 11 :	A'.B' + A.B may also be represented as:		Marks :	1
	1 . A ⊕ B			
	2. A.B			
	3. A+B			
	4. (A ⊕ B)'	(This Answer is Correct)		

Q 12 :	The type of relationship where each worker is under one supervisor:	Marks :	1
	1 . 1:N		
	2 . N:1		
	3 . 1:1 (This Answer is Correct)		
	4 . N:N		
Q 13 :	Which of the following is a false reason for parallel lines not being used for long distances?:	Marks :	1
Q IS.	Cost factor	Marko .	•
	Signal Attenuation Number of transmission channels		
	4. Low speed (This Answer is Correct)		
Q 14 :	How many links are required to carry 'n' bit data for parallel communication?:	Marks :	1
	1. n+1		
	2 . n-1		
	3. 1		
	4 . n (This Answer is Correct)		
Q 15 :	This protocol defines the transport mechanism for sending email messages over the internet:	Marks :	1
Q 13.	1. SMTP (This Answer is Correct)		
	2. POP3		
	3. IMAP		
	4. MIME		
Q 16 :	These are the people who interact with a database without writing application programs but by requesting information from a database using queries:	Marks :	1
	1 . Application Programmer		
	2 . Specialised Users		
	3 . Inexperienced Users		
	4 . Sophisticated Users (This Answer is Correct)		
Q 17 :	Each Ethernet NIU has a unique 48 bit physical address called address:	Marks:	1
	1. IP		
	2 . Port		
	3. Cable		

4	M	Δ	(
_	IV	$\overline{}$	۸

Q 18 :	constraints specify that for any given tuple, the value of each attribute must be an atomic value taken from the domain:	Marks :	1
	1. Foreign		
	2 . Referential Integrity		
	3 . Integrity		
	4. Domain (This Answer is Correct)		
Q 19 :	An IP address is a bit binary number:	Marks :	1
	1. 32 (This Answer is Correct)		
	2. 16		
	3.8		
	4 . None of these		
Q 20 :	Which command in SQL is used to arrange data in a given order?:	Marks :	1
	1. list by		
	2 . store by		
	3. order by (This Answer is Correct)		
	4 . arrange by		
Q 21 :	Any IP address that starts with '0' in binary in the first bit of the first octet:	Marks :	1
	1 . Class A (This Answer is Correct)		
	2 . Class B		
	3 . Class C		
	4 . None of these		
Q 22 :	In email, the username and the domain name are separated by:	Marks :	1
	1. \$		
	2. #		
	3. @ (This Answer is Correct)		
	4 . None of these		
Q 23 :	Any IP address that starts with '110' in binary in the first 3 bits of the first octet:	Marks :	1

1. Class A

	2 . Class B			
	3. Class C	(This Answer is Correct)		
	4 . None of these			
Q 24 :	Which gate is the logical complement of XOR?		Marks :	1
	1. NOT			
	2. NOR			
	3. NAND			
	4. XNOR	(This Answer is Correct)		
Q 25 :	Which gate is the logical complement of OR?		Marks :	1
	1. NOT			
	2. NOR	(This Answer is Correct)		
	3. NAND			
	4. XNOR			
Q 26 :	This attribute of the list tag is used to select the style of num	bering in an ordered list:	Marks :	1
	1. div			
	2. align			
	3 . type	(This Answer is Correct)		
	4 . start			
Q 27 :	This is the lowest level of database abstraction:		Marks :	1
	1. View level			
	2 . Logical level			
	3 . Physical level	(This Answer is Correct)		
	4 . None of these			
Q 28 :	The World Wide Web (WWW) is a network of online content	that is accessed via:	Marks :	1
	1. DNS			
	2. IP			
	3. HTML			
	4 LITTD	(This Answer is Correct)		
	4. HTTP	(This Allswer is correct)		

https://www.slscampuscare.in/QuestionBank/QuestionBankReport?menuid=501

Q 29:

The table STUDENT (ID, Name, Address, Phone) has degree:

Marks: 1

	1. 3			
	2. 4	(This Answer is Correct)		
	3.5			
	4.6			
Q 30 :	All types of logic gates can be formed by suitable combinations of _	gates only:	Marks :	1
	1. NOT			
	2. AND			
	3. NAND	(This Answer is Correct)		
	4. XOR			
Q 31 :	The basic operation of a half adder circuit is to add binary o	digits	Marks :	1
	1.2	(This Answer is Correct)		
	2. 3	_		
	3. 4			
	4. 5			
Q 32 :	Which clause in SQL corresponds to the selection operation of rela	tional algebra?:	Marks :	1
	1. having			
	2. from			
	3. like			
	4. where	(This Answer is Correct)		
Q 33 :	The carryout bit expression for a half adder which adds the digits A	& B is:	Marks :	1
	1 . AB	(This Answer is Correct)		
	2 . A'. B + A . B'	_ _		
	3 . A'.B' + A.B			
	4 . A+B			
Q 34 :	< ol type = i start = 5 > will start the list with the character:		Marks :	1
	1. i			
	2. iii			
	3. v	(This Answer is Correct)		
	4. ix	_		

Q 35: The symbol used to denote PROJECTION operation is:

https://www.slscampuscare.in/QuestionBank/QuestionBankReport?menuid=501

Marks: 1

		(This American is a		
	2. □	(This Answer is Correct)		
	3. ρ			
	4. ∪			
Q 36 :	Which one of the following is not a proper function of a computer ne	etwork?:	Marks :	1
	1 . Resource sharing			
	2. Image scanning	(This Answer is Correct)		
	3 . Information sharing			
	4 . Fault tolerance			
Q 37 :	Which of the following strings can be used in SQL to check if a name	e starts with 'SA'?	Marks :	1
	1. 'SA_'			
	2. 'SA%'	(This Answer is Correct)		
	3. 'SA_%'			
	4 . 'SA'			
Q 38 :	Signal that changes in a continuous manner with time is known as:		Marks :	1
	1 . Analogue	(This Answer is Correct)		
	2. Digital	_		
	3 . Sequential			
	4 . None of these			
Q 39 :	In this mode of communication data can travel in both directions sin	nultaneously:	Marks :	1
	1 . Asynchronous			
	2. Full Duplex	(This Answer is Correct)		
	3 . Half Duplex	_		
	4. Simplex			
Q 40 :	Signal that changes in a discrete manner with time is known as:		Marks :	1
	1 . Analogue			
	2. Digital	(This Answer is Correct)		
	3 . Sequential	_		
	4 . None of these			

https://www.slscampuscare.in/QuestionBank/QuestionBankReport?menuid=501

In this mode of communication data can travel in one direction only:

Marks: 1

	1 . Asynchronous			
	2 . Full Duplex			
	3 . Half Duplex			
	4. Simplex	(This Answer is Correct)		
Q 42 :	Walkie-talkie is an example of which communication mode?		Marks :	1
	1 . Asynchronous			
	2 . Full Duplex			
	3 . Half Duplex	(This Answer is Correct)		
	4. Simplex			
Q 43 :	What is the benefit of networking?:		Marks :	1
	1 . File sharing			
	2 . Easier access to resources			
	3 . Easier backups			
	4 . All of the above	(This Answer is Correct)		
Q 44 :	The ability to modify the structure of a database in one level withou a higher level:	t affecting the database structure in	Marks :	1
	1 . database			
	2 . database instance			
	3 . reference	_		
	4 . data independence	(This Answer is Correct)		
Q 45 :	The HTML tag defines the font size, color and face of tex	ct in the HTML document. :	Marks :	1
	1 . < font >	(This Answer is Correct)		
	2 . < text >			
	3 . < format >			
	4 . None of these			
Q 46 :	Which bit is transmitted first in a serial communication?:		Marks :	1
	1 . Least significant	(This Answer is Correct)		
	2 . Most significant			
	3 . All the bits simultaneously			
	4 . Not in any specific order			

Q 47 :	The number of transmitted bit for serial communication is:		Marks:	1
	1. 1	(This Answer is Correct)		
	2. 2			
	3 . Same as number of bits of the information			
	4 . None of these			
Q 48 :	This is also known as the cache manger:		Marks :	1
	1. Hardware			
	2 . Data manager	(This Answer is Correct)		
	3. Users			
	4 . Query Processor			
Q 49 :	The cost of setting up of which of the following is high?:		Marks :	1
	1 . Serial communication			
	2 . Parallel communication	(This Answer is Correct)		
	3 . Serial – Parallel communication	_		
	4 . None of these			
Q 50 :	Which is a disadvantage of a peer to peer network?:		Marks :	1
	1 . Central management is more difficult			
	2 . Peer to peer networks is expensive			
	3 . No central management, can be slow	(This Answer is Correct)		
	4 . Peer to peer networks is difficult to maintain	_		
Q 51 :	One of the most common LAN protocol is:		Marks :	1
	1. ATM			
	2. PPP			
	3. SDH			
	4. Ethernet	(This Answer is Correct)		
Q 52 :	Network in which every computer is capable of playing the role of time is called:	of client, server or both at the same	Marks :	1
	1 . wide area network			
	2 . local area network			
	3. peer-to-peer network	(This Answer is Correct)		
	4 . dedicated server network			

Q 53 :	A minimal super key, no proper subset of which is another super k	ey:	Marks:	1
	1 . Relation			
	2 . Primary key			
	3 . Candidate key	(This Answer is Correct)		
	4. Degree			
Q 54 :	Depending upon the physical property of the channel through whice shape of the signal can also change called:	ch the data is transmitted, the overall	Marks :	1
	1 . distortion	(This Answer is Correct)		
	2 . attenuation			
	3. baud			
	4 . None of these			
Q 55 :	A client can be a terminal which acts only as an input a	and output interface:	Marks :	1
	1 . dumb	(This Answer is Correct)		
	2. simplex			
	3. asynchronous			
	4 . synchronous			
0.50	A Satellite which has a time period same as the earth's rotation tin	ne is called:	Marks :	1
Q 56 :	geological satellite	io, io danda.	marko .	•
	geometric satellite			
	3 . geostationary satellite	(This Answer is Correct)		
	geosynchronous satellite	(,		
	goodynoinonoud datemic			
Q 57 :	The signal from the satellite back to the ground antenna is called:		Marks :	1
	1 . forward link			
	2 . uplink			
	3 . downlink	(This Answer is Correct)		
	3 • downlink4 · back link	(This Answer is Correct)		
Q 58 :			Marks :	1
Q 58 :	4 . back link This is an established set of rules that determine how data is trans		Marks :	1
Q 58 :	4 . back link This is an established set of rules that determine how data is trans the same network:		Marks :	1

- 4. Router
- Q 59: Which of the following strings can be used in SQL to check if a name is at least 5 characters long and whether it starts with 'Am'?:
 - 1. 'Am___'
 - 2. 'Am% % % _'
 - 3 . 'Am_ %'
 - **4** 'Am_ _ _%'

(This	Answer is Correct
-------	-------------------

- Q 60: This indicates the range of frequencies that a communication channel can handle with reasonable reliability:
- Marks: 1

1 . Bandwidth

(This Answer is Correct)

- 2. Signal to Noise Ratio(SNR)
- 3. Both Bandwidth and SNR
- 4. None of these