

Date:20/10/2022 GRADE: XII

MONTHLY TEST-3 (2022-23) INFORMATICS PRACTICES

Max marks: 40 marks Time: 2 hours

Name :

Q.No.	Questions	Mark				
SECTION A						
1	School computer lab cable network is an example of: i. LAN ii. WAN iii. MAN iv. PAN	1				
2	 Which type of values will not be considered by SQL while executing the following statement? SELECT COUNT(Sales) FROM Shop; i. Numeric value ii. String value iii. Null value iv. Date value 	1				
3	If column "CASH" contains the data set (100,200,300,200,400,100,300), what will be the output after the execution of the given query? SELECT SUM (DISTINCT CASH) FROM student; i. 1600 ii. 1000 iii. ERROR iv. 0	1				
4	 Which SQL statement do we use to find out the total number of records present in the table PRODUCT? i. SELECT * FROM PRODUCT; ii. SELECT COUNT (*) FROM PRODUCT; iii. SELECT FIND (*) FROM PRODUCT; iv. SELECT SUM () FROM PRODUCT; 	1				
5	Which one of the following is a SCALAR function? i. MOD() ii. SUM() iii. COUNT() iv. AVG()	1				
6	Which one of the following functions is used to find the smallest value from the given data in MySQL? i. MIN() ii. MINIMUM() iii. SMALL() iv. MINIMAL()	1				
7	Which amongst the following is not an example of an anti-virus? i. Avg ii. Firefox iii. Avast iv. McAfee	1				
8	Legal term to describe the rights of a creator of original creative or artistic work is: i. Copyright ii. Copyleft iii. GPL iv. FOSS	1				
9	is the trail of data we leave behind when we visit any website (or use any online application or portal) to fill-in data or perform any transaction. i. Offline phishing ii. Offline footprint iii. Digital footprint iv. Digital phishing	1				
10	ASSERTION AND REASONING based questions. Assertion (A) : An Internet troll is a person who deliberately sows discord on the Internet by starting quarrels or upsetting people. Reason (R) : We can download and use any material available on the Internet.	1				

i. Both A and	i. Both A and R are true and R is the correct explanation for A							
ii. Both A and R are true and R is not the correct explanation for A								
iii. A is True	but R is False							
iv. A is false	but R is True							
			SECTIO					
			SECIIC	JIN D				
What is the purpose of Group By clause in SQL? Explain with the help of suitable example.						2		
List any four benefits of e-waste management. OR							2	
-	/ four net etiq							
Explain the t	erms Web pa	ge and Ho	-				2	
Montion	four notwork	ving goals	OR					
	r four network ble STUDENT و			ble SOL auer	ies for the f	ollowing	2	
Roll No	Name	Class	Gender	City	Marks		2	
	Abhishek	XI	Gender	Agra	430	-		
2	Prateek	XII	M	Mumbai	440	1		
3	Sneha	XI	F	Agra	470	1		
4	Nancy	XII	F	Mumbai	492			
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SECTION D						
18	Write suitable SQL query for the following:	5				
	i. Display 10 characters extracted from 6 th left character onwards from the string 'TAMASOMA JYOTHIRGAMAYA '.					
	ii. Display the position of occurrence of string 'OR' in the string 'CORPORATE FLOOR'.					
	iii. Round off the value 87.7891 to two decimal place.					
	iv. Display the remainder of 80 divided by 7 .					
	v. Remove all the expected leading and trailing spaces from a column NAME of the table ' STAFF '.					
	OR					
	Explain the following SQL functions using suitable examples. i. LCASE() ii. LTRIM() iii. MID() iv. YEAR() v. SQRT()					
19	Abhishek uses computer and mobile for his personal use. Study the following cases and answer the questions given below.	5				
	(Case 1) Once he got the message in WhatsApp that CBSE is announcing the result of class XII tomorrow at 12:00 pm. He forwarded the message to his few friends. But later he came to know that no such announcement was there in CBSE official website.					
	(Case 2) He is visiting several web-sites.					
	(Case 3) He is getting abuse messages from an unknown number due to which he is thinking of quarreling with that person.					
	(Case 4) He registered himself in one website by giving his email id and phone number but later his friend told him about the concept of digital footprint. He is now thinking about canceling the registration so that his personal information can be deleted from that website.					
	(Case 5) He uploaded one video in his YouTube channel where he used one background music downloaded from somewhere on Internet					
	i. In case (1), he is violating: A. net etiquettes B. Communication etiquettes C. copy right D. None of the above					
	ii. In case (2), he is leaving: A. Active digital footprint B. Passive digital footprint C. There is no chance of any digital footprint D. None of the above					
	iii. In case (3), the unknown person can be called as: A. Cyber Buller B. Internet troll C. Hacker D. Cracker					

	iv. In case (4) which one is correct:	
	A. His data will be deleted forever after cancelling the registration.	
	B. His data will be deleted after 30 days since it is a digital footprint.	
	C. His data will never be deleted since it became the digital footprint.	
	D. As per the terms and condition of that website, data will be deleted.	
	(1) he may be violating:	
	v. In case (5), he may be violating:	
	A. copyright B. Intellectual property right C. Plagiarism D. None of the above	
	SECTION E	
20	Freshminds University of India is starting its first campus Anna Nagar of South India	4
	with its centre admission office in Kolkata. The university has three major blocks	
	comprising of Office Block, Science Block and Commerce Block in the 5 km area	
	campus. As a network expert, you need to suggest the network plan as per (i) to (iv)	
	to the authorities keeping in mind the distance and other given parameters.	
	Freshmind University Anna Nagar Campus	
	Kolkata Office Commerce	
	Admission Block Block	
	Office	
	Science	
	Block	
	Expected wire distances between various locations:	
	Office Block to Science Block 90 m	
	Office Block to Commerce Block 80 m	
	Science Block to Commerce Block 15 m	
	Kolkata Admission Office to Anna 2450 km	
	Nagar Campus	
	Expected number of computers to installed at various locations in the university are	
	as follows:	
	Office Block 10	
	Science Block 140	
	Commerce Block 30	
	Kolkata Admission Office 8	
	(i) Suggest the authorities, the cable layout amongst various blocks inside university	
	campus for connecting the blocks.	
	(ii) Suggest the most suitable place (i.e. block) to house the server of this university	
	with a suitable reason.	
	(iii) Suggest an efficient device from the following to be installed in each of the blocks	
	to connect all the computers.	
	(a) Switch (b) Modem	
	(c) Gateway (d) Repeater	
	(iv) Suggest the most suitable (very high speed) service to provide data connectivity	
	between Admission Office to Anna Nagar from the following options:	
	(a) Telephone lines (b) Fixed line dial-up connection	
	(c) Co-axial cable network (d) Satellite connection	