SampleQuestion Paper-Term-II

Computer Science-083

Set-2 (Theory)
Class-XII

Total Marks- 35 **Total Time-** 2 Hours

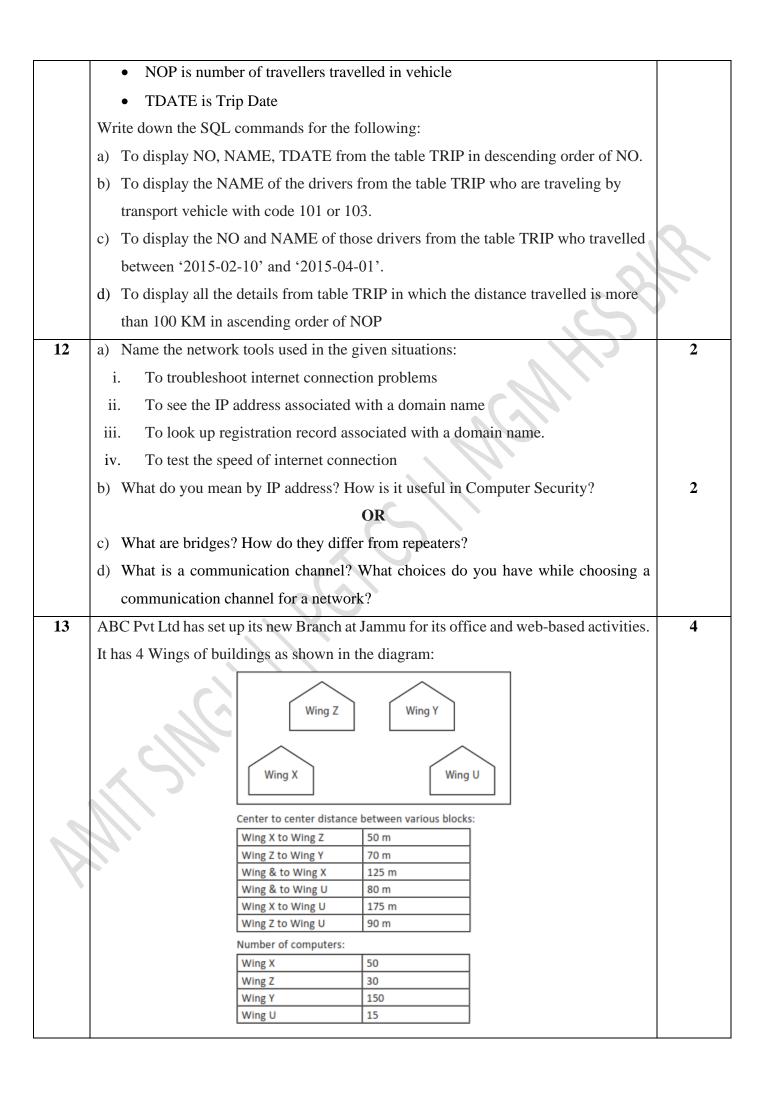
General Instructions:

- 1. This question paper contains three sections A, B and C. Each part is compulsory.
- 2. Section A, consists of 7 questions (1-7). Each question carries 2 marks.
- 3. Section B, consists of 3 questions (8-10). Each question carries 3 marks.
- 4. Section C, consists of 3 questions (11-13). Each question carries 4 marks.
- 5. Internal choices have been given for question numbers 7, 8 and 12.

	/ -		<u>Section</u>					
T	(Eacl	n question c		rks from ques	stion no. 1 to	<u>(7)</u>		
			QUEST	ION			MARKS	
What is stac	s stack? What basic operations can be performed on them?							
Expand the	the following terms: OSI, SMS, URL, ARPANET							
Account on the following situations: a) Deepika wants to remove all rows from the table BANK. But he needs to maintain the structure of the table. Which command is used to implement the same? b) While creating table 'customer', Rahul forgot to add column 'price'. Which command is used to add new column in the table? Write the command to implement								
								Differentiate between fetchmany() and fetchall() methods with suitable examples for each.
Consider the tables STAFF and SALARY given below: -								
	StaffID	Name	Departme	nt Gender	Experience			
	1125	Nihara	Sales	F	12			
	1263	Kartik	Finance	M	6			
	1452	Payal	Research	F	3			
		Aryan	Sales	M	8			
		Laxman	Finance	M	10			
321 Krishna Sales M 7 SALARY								
	StaffII	<u> </u>	Basic	Allowance	Comm			
	1452		12000	1000	200			
	321 230			2300	900			
	321					\dashv		
	1125		32000	4000	100			
		3	32000 12000	52000	800	-		
	1125	3						
	Expand the Account on a) Deepika the struct b) While of comman the same Differentiate each.	Expand the following Account on the following Account on the following a) Deepika wants to the structure of the b) While creating to command is used the same. Differentiate between each. Consider the tables S StaffID 1125 1263	Expand the following terms: OS Account on the following situati a) Deepika wants to remove all the structure of the table. Wh b) While creating table 'custo command is used to add new the same. Differentiate between fetchmany each. Consider the tables STAFF and StaffID Name 1125 Nihara 1263 Kartik 1452 Payal 236 Aryan 366 Laxman	What is stack? What basic operations can be Expand the following terms: OSI, SMS, URI Account on the following situations: a) Deepika wants to remove all rows from the structure of the table. Which command by While creating table 'customer', Rahu command is used to add new column in the the same. Differentiate between fetchmany() and fetch each. Consider the tables STAFF and SALARY giver staff of the same of	Expand the following terms: OSI, SMS, URL, ARPANET Account on the following situations: a) Deepika wants to remove all rows from the table BAN the structure of the table. Which command is used to in b) While creating table 'customer', Rahul forgot to a command is used to add new column in the table? Write the same. Differentiate between fetchmany() and fetchall() method each. Consider the tables STAFF and SALARY given below: - STAFF StaffID Name Department Gender 1125 Nihara Sales F 1263 Kartik Finance M 1452 Payal Research F 236 Aryan Sales M 366 Laxman Finance M 321 Krishna Sales M	What is stack? What basic operations can be performed on them? Expand the following terms: OSI, SMS, URL, ARPANET Account on the following situations: a) Deepika wants to remove all rows from the table BANK. But he need the structure of the table. Which command is used to implement the b) While creating table 'customer', Rahul forgot to add column command is used to add new column in the table? Write the command the same. Differentiate between fetchmany() and fetchall() methods with suitable each. Consider the tables STAFF and SALARY given below: - STAFF StaffID Name Department Gender Experience 1125 Nihara Sales F 12 1263 Kartik Finance M 6 1452 Payal Research F 3 236 Aryan Sales M 8 366 Laxman Finance M 10 321 Krishna Sales M 7	What is stack? What basic operations can be performed on them? Expand the following terms: OSI, SMS, URL, ARPANET Account on the following situations: a) Deepika wants to remove all rows from the table BANK. But he needs to maintain the structure of the table. Which command is used to implement the same? b) While creating table 'customer', Rahul forgot to add column 'price'. Which command is used to add new column in the table? Write the command to implement the same. Differentiate between fetchmany() and fetchall() methods with suitable examples for each. Consider the tables STAFF and SALARY given below: - STAFF StaffID Name Department Gender Experience 1125 Nihara Sales F 12 1263 Kartik Finance M 6 1452 Payal Research F 3 366 Laxman Finance M 10 366 Laxman Finance M 10 321 Krishna Sales M 7	

	b) SELECT NAME, BASIC FROM STAFF, SALARY WHERE DEPT="SALES"	
	AND STAFF.STAFFID= SALARY.STAFFID;	
	c) SELECT COUNT(DEPARTMENT), DEPARTMENT FROM STAFF GROUP	
	BY DEPARTMENT;	
	d) INSERT INTO SALARY VALUE(1111, 23000, 1000, 400);	
6	a) SELECT FROM instructor WHERE dept name= 'Comp. Sci.';	1
	Fill the proper aggregate function that should be used to find the mean of the salary?	
	What is wrong with the following statement? Select * from employee where grade	
	= NULL;	
	b) What is natural join?	1
7	a) How many primary keys and unique keys can be there in a table?	1
	b) What is the count of tuples in a relation known as?	1
	OR	
	c) What is the count of attributes in a table known as?	
	d) Give some example integrity constraints.	
	Section-B	
	Section-B (Each question carries 3 marks from question no. 8 to 10)	
Q. NO.		MARKS
Q. NO. 8	(Each question carries 3 marks from question no. 8 to 10)	MARKS
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	(Each question carries 3 marks from question no. 8 to 10) QUESTION Write PUSH(book_name) and POP(book_name) methods in python to add book	MARKS
	(Each question carries 3 marks from question no. 8 to 10) QUESTION Write PUSH(book_name) and POP(book_name) methods in python to add book name and remove book name considering them to act as PUSH and POP operations in	MARKS
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	(b) What is the use of GROUP BY clause? How are they useful?								1
10	Observe the table 'Club' given below:								
	Member_id Member_Nan		Name	e Address A		Age			
	M001	Sumit		New Delhi	20	20			
	M002	Amit		Punjab 23			2100		
	M003	Sachin		Mumbai 23			2000		
	M004	Ayushi		Faridabad	22		2200		
-	(a) Identify the attribute best suitable to be declared as a primary key as well as foreign								1
	key.								
-	(b) What is the	e cardinality	y and de	egree of the ab	ove gi	ven table?		(0)	1
-	(c) If a new co	olumn cont	act_no	has been added	d and	three more	memb	ers have joined	1
	the club then	how these	changes	s will affect th	ne deg	ree and ca	rdinalit	ty of the above	
	given table.								
				Section-	- <u>C</u>)		
	<u>(</u>	(Each ques	tion car	rries 4 marks j	from g	uestion ne	o. 11 to	<i>13</i>)	
Q. NO.				QUESTIO	N				MARKS
11	Consider the fo	Consider the following tables TRANSPORT and TRIP:							
		-		TABLE: TRANS	PORT				
		TCODE		TTYPE PERKM					
		-	103	ORDINARY BUS SUV		90			
		-	103	CAR	-	20			
			103	ORDINARY BUS		90			
			101	VOLVO BUS		160			
			102	AC DELUXE BUS		140			
	Note:								
	• PERKS	S is Freight	Charge	s per kilometr	e				
	• TTYPE	E is Transpo	ort Vehi	cle Type					
	TTYPE is Transport Vehicle Type TABLE: TRIP								
		NO	NAME	TDATE	KM	TCODE	NOP		
			anish Khan		200	101	32		
	1.		anish Saha		100		45		
			Ram Kumar		350		42		
			Fen Shen	2016-01-13	90	102	40		
		17 A	Nan Kumar Veena		75	104	2		
			veena Rajpal Kirti	2016-06-28	80	105	4		
		16	Najpai Kirti	2010-06-06	200	101	25		
	NT . 4								
	Note:								
		Driver Num	nber						



- (i) Suggest the most suitable connection between the Wings and topology.
- (ii) Suggest the most suitable place (*i.e.*, Wing) to house the server of this organization with a suitable reason, with justification.
- (iii) Suggest the placement of the following devices with justification:
 - (a) Repeater
 - (b) Hub/Switch
- (iv) The organization is planning to link its head office situated in Delhi with the offices at Jammu. Suggest an economic way to connect it; the company is ready to compromise on the speed of connectivity. Justify your answer.