

April-2016
ATKT

V sem. computer

Pa-3

QP Code : 17927

(2½ Hours)

[Total Marks: 75]

- Note: 1) All questions carry equal marks and are compulsory.
2) Figures to the right indicate maximum marks for a question.

- Q1. (A) Attempt any two sub-questions from (a), (b), (c) in MS-EXCEL (True/False) (2)
- (a) A worksheet is a collection of workbooks.
 - (b) A ROUND function is the same as INT function.
 - (c) Before inserting subtotals, the data in the worksheet must be sorted.
- (B) Attempt any two sub-questions from (d), (e), (f) in MySQL (Multiple Choice) (2)
- (d) The key which helps to uniquely identify each row of the table is called _____ key.
1) Primary 2) Foreign 3) Main 4) None of these
 - (e) To save the transaction we use _____.
1) Commit 2) Concat 3) Rollback 4) Return
 - (f) To indicate that the values in the column are positive we use _____.
1) Not Null 2) Unsigned 3) No Signed 4) Not Signed
- (C) Attempt any six sub-questions from (g), (h), (i), (j), (k), (l), (m), (n), (o) in Data Communications, Networking and Internet. (True/False). (6)
- (g) A Blog is a digital diary.
 - (h) A token passing system is not used in Ring Topology.
 - (i) In LAN at least one computer has to be a file server.
 - (j) A computer that acts as server and client is peer.
 - (k) There are seven layers in OSI model.
 - (l) Dial-up connection provides faster internet access.
 - (m) Yahoo.com is a search engine.
 - (n) The Boolean search can simultaneously search through many search engines.
 - (o) Internet Explorer is a web browser.
- (D) Attempt any five sub-questions from (p), (q), (r), (s), (t), (u), (v), (w) in Data Communications, Networking and Internet. (Multiple Choice) (5)
- (p) _____ is not a component of data communication.
1) Sender 2) Receiver 3) Protocol 4) Accuracy
 - (q) The rules for exchanging data between the computers are called _____.
1) Server 2) Protocol 3) Domains 4) None of these

[TURN OVER

- Q2. (A) Answer *any one* sub-question from (a) ,(b) in Data Communications, Networking and Internet.
- (a) Explain Bus and Ring Topology.
- (b) What is Internet? Explain the uses of Internet.
- (B) Answer *any one* sub-question from (c) ,(d) in Data Communications, Networking and Internet.
- (c) What is Electronic mail? State the advantages and importance of Electronic mail.
- (d) Write a note on Twisted-Pair and Co-axial cable in data communication.
- Q3. (A) Answer *any one* sub-question from (a) , (b) in MySQL
- (a) Write MySQL statement to create a table called LIBRARY having the following columns Serial Number(SR_NO, integer, distinct, should increase by 1 automatically), Book Name(BNAME, character with variable width 25 columns), Author Name(AUTHOR, character with variable width 15 columns) and Book Price(PRICE, 5 integers and 2 decimals, positive).

[TURN OVER]

- (b) Write MySQL statement to create a table called CONSUMER having the columns Consumer Number (CNO, distinct integer), Consumer Name (CNAME, character with variable width 15 columns, should not be empty), Type of Connection (TYPE, character with variable width 10 columns, with default entry 'Industrial') and Units Consumed (UNITS, integer).

- (B) Answer any one sub-question from (c), (d) in MySQL (7)
- (c) Explain the following built-in functions in MySQL.
 1) UPPER() 2) NOW() 3) LTRIM() 4) RIGHT()
 5) POW() 6) MOD() 7) MONTHNAME()
- (d) There exists a table called ESAL having the following columns Employee Number (ENO, integer, primary key), Employee Name (ENAME, character variable width 25 columns), Date of Birth (DOB, date) and Salary (SAL, 5 integer and 2 decimals). Write MySQL statements for the following.
 i) Display the structure of the table ESAL.
 ii) Increase the salary of all employees by 2000.
 iii) Change the size of the column SAL to 6 integers and 2 decimals.
 iv) Rename the column DOB to DBT.
 v) Change the name of the employee number 175 to 'VIVEK JAIN'.
 vi) Delete the row where employee number is 111.
 vii) Delete the table ESAL.

- Q4. (A) Answer any one sub-question from (a), (b) in MySQL (8)
- (a) There exists a table EMP containing columns Employee number (ENO, integer), Employee name (ENAME, character), Department (DEPT, character) and Basic Salary (BSAL, Numeric). There exists another table INCENT containing columns Employee number (ENO, integer), Contribution (CONTRI, Numeric) and Bonus (BONUS, numeric). Write MySQL queries for the following
 i) Display the Employee number, Employee name, Contribution and Bonus for employees having Bonus more than 5000 using both the tables.
 ii) Display the Employee name, Department, and Contribution for all the Employees having Contribution below 500 using both the tables.
 iii) Display Employee name, Department and Basic Salary from the table EMP for those employees having Basic Salary below the average Basic Salary.
 iv) Display Employee number and Bonus in the ascending order of Employee number from the table INCENT.
 v) Display Employee name, Department and Basic Salary for Employee whose name begins with 'M' from the table EMP.

[TURN OVER]

- (b) There exists a table TAX containing columns Permanent Account Number (PAN, integer), name (NAME, Character), city (CITY, Character), Taxable income (INC, numeric) and income tax (ITAX, numeric). Write MySQL queries for the following
- Display the city, maximum and minimum Taxable income, grouped by city.
 - Display the city, total of the income tax and total number of income tax payers, grouped by city.
 - Display all the rows where the income tax is below the average income tax.
 - Display the Permanent Account Number, Income Tax and 10% of the income tax as 'Surcharge'.
 - Display the rows from this table where the name does not contain 'A'.

(B)

(c)

Answer *any one* sub-question from (c), (d) in MySQL

There exists a table EXAM containing columns seat number (SEAT_NO, character), Name (SNAME, character), Gender (GENDER, character) and marks (MARK, numeric). Write MySQL queries for the following

- Display the seat number, name and marks of students whose marks are equal to the highest marks.
- Display the seat number, gender and marks of students whose marks are above the average marks.
- Display the gender, minimum marks and maximum marks of the students grouped by gender.
- Display all the rows where the gender is 'M'.

(d)

There is a table DEPOSIT containing the columns account number (ACNO, integer), customer name (CNAME, character), Amount Deposited (D_AMT, numeric), date of deposit (DDATE, date) and period of deposit (P_DEP, numeric). Write MySQL queries for the following:

- Display the account number and amount deposited.
- Display the total number of deposits and maximum amount deposited.
- Display customer's name in capital letters, year of deposit and the amount deposited.
- Display all the rows in the ascending order of amount deposited.
- Display all the rows where the customer name begins with 'B'.
- Display all the rows where the date of deposit is before March 15, 2015.
- Display the customer name and amount deposited where the amount deposited is either 1,00,000 or 3,00,000.

[TURN OVER]

Q5. (A)

Answer *any one* sub-question from (a), (b) in MS-EXCEL

(8)

(a)

Consider the following worksheet showing the cost of machinery, rate of depreciation and its life in years. Using reducing balance method, explain the procedure to display Year Wise depreciation and W.D.V. till the life of the machinery.

	A	B	C	D	E	F
1	Cost	Rate	Life in Years	Year	Depreciation	W.D.V.
2	900000	9.50%	5	1		
3				2		
4				3		
5				4		
6				5		

(b)

Consider the following worksheet showing the Sales of 4 persons.

	A	B	C	D	E	F
1	Name	Sales	Tax	Discount	Net Amount	Profit
2	Anita	50000				
3	Sachin	40000				
4	Sunil	35000				
5	Nirmal	70000				

Write steps to find for all the salesmen

- (i) Tax as 12.36% of the Sales in column C
- (ii) Discount as 6.5% of the Sales in column D
- (iii) Net Amount as Sales+Tax-Discount in column E
- (iv) Profit as 8.5% of the net amount in column F

(B)

Answer *any one* sub-question from (c), (d) in MS-EXCEL

(7)

(c)

For the following worksheet find the Days Present and the proportionate Salary in columns D and E, assuming that there are 25 working days in the month.

	A	B	C	D	E
1	Name	Monthly Salary	Days Absent	Days Present	Proportionate Salary
2	Subash Shah	30000	4		
3	Lila Mehta	45000	2		
4					
5					
6					
7	Franrose Dalal	50000	3		
8	Shafique Ahmed	60000	1		

(d)

Explain the following built-in functions in MS-EXCEL.

- (1) NPER() (2) SQRT() (3) RATE() (4) IPMT() (5) ABS()
- (6) MOD() (7) ROUND()