

TYBlom

104

Time: 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 spreadsheet (True/False) (2)
- (a) Shift key is used to select a non-contiguous range.
 - (b) There are two types of cell references.
 - (c) A pivot table is a dynamic summary of the data.
- (B) Attempt any **two** sub-questions from (d), (e), (f) in MySQL (Multiple Choice) (2)
- (d) To indicate that there should be 5 integers and 2 decimal positions we use ____.
i) DECIMAL(7,2) ii) DECIMAL(5,2) iii) DECIMAL(2,5) iv) DECIMAL(2,7)
 - (e) When one query is written within another query it is termed as a ____.
i) Mini query ii) Net query iii) Sub query iv) Tied query
 - (f) In MySQL, the operator LIKE "%R" finds match for a string ____.
i) Ending with R ii) Starting with R iii) Containing R iv) Containing R%
- (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) The data transmission can take place without a protocol.
 - (h) In client server architecture, all resources are controlled by the server.
 - (i) In ring topology failure of one node will not affect the functioning of the network.
 - (j) Coaxial cable can be used over longer distances than twisted -pair cable.
 - (k) A bridge is a device using which we can segment a larger network into two smaller, more efficient networks.
 - (l) IP addresses are easier to remember.
 - (m) Face book is a search engine.
 - (n) Emails cannot be sent with attachments.
 - (o) Vishing uses VoIP to make a phishing attack.
- (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) A ____ network spans a number of cities and countries.
i) LAN ii) MAN iii) WAN iv) None of these
 - (q) The transmission medium that carries the message is referred to as the ____.
i) Protocol ii) gateway iii) Communication channel iv) Transport
 - (r) In ____ topology all nodes are connected with a single cable.
i) Bus ii) Ring iii) Star iv) None of these
 - (s) POP stands for ____.
i) Post Office Protocol ii) Post Open Protocol
iii) Post Operate Protocol iv) None of these
 - (t) As the data packet moves from upper layers to lower layers, headers are ____.
i) Added ii) Rearranged iii) Deleted iv) Modified
 - (u) The activity of updating a blog is called ____.
i) Blogging ii) Blogger iii) Presenter iv) Hacking

- Q4. (A) Answer any one sub-question from (a), (b) in MySQL (8)
- (a) There exists a table GOAIR having the columns Flight Number (FNO, integer), Destination Name (DNAME, character), PRN Number (PRN, integer), Fare Amount (FARE, numeric).
Write MySQL statements for the following.
i) Display Flight Number, Destination Name and Fare Amount from this table.
ii) Display Flight Number and Fare Amount for the records where Fare Amount is below the average Fare Amount.
iii) Display PRN Number, Destination Name for the records where Fare Amount is equal to the Highest Fare Amount.
iv) Display Destination Name, maximum Fare Amount and total Fare Amount from the table for each Destination Name.
v) Display all the rows from this table in the descending order of Fare Amount.
- (b) There exists a table ABPCOLLEGE containing columns Roll Number (RNO, integer, primary key), Name (SNAME, character), Class (CLASS, character). There exists another table RESULT containing columns Roll Number (RNO, integer, primary key), Total marks (TOTAL, integer), Percentage (PERCENTAGE, integer) and Grade (GRADE, character).
Write MySQL statements for the following.
i) Display Name, Class, Total marks and Grade of a student with Total Marks more than 560 using both the tables.
ii) Display Name, Class and Grade of students getting "O" Grade using both the tables.
iii) Display Roll number and Total marks of students who have scored more than average Total Marks using table RESULT.
iv) Display Roll Number and Name of students whose Roll Number is divisible by 7 using table ABPCOLLEGE.
v) Display all the records from the table ABPCOLLEGE of the class "T.Y.B.COM."

- Q4. (B) Answer any one sub-question from (c), (d) in MySQL (7)
- (c) There exist a table called BATAS containing columns Employee Name (ENAME, character), Department Name (DEPT, character), Date of Joining (DOJ, date), Salary (SALARY, numeric) and Age (AGE, integer).
Write MySQL statements for the following:-
i) Display Department Name, total salary and average Salary for each Department.
ii) Display Date of Joining, minimum and maximum of the Salary as per date of Joining.
iii) Display all the rows where the Salary is equal to maximum Salary.
iv) Display Employee Name, Department Name and Salary where Age is more than 55.

- (d) There exists a table TAX having the columns Permanent Account Number (PAN, integer), Name (NAME, character), City (CITY, character), Taxable Income (INC, integer) and Income Tax (ITAX, integer).
Write MySQL queries for the following.
- Display all the rows from this table where the first letter in the Name is 'U'.
 - Display all the rows from this table in the descending order of Taxable Income.
 - Display the columns Permanent Account number, Name and Income Tax from this table.
 - Display Permanent Account number, Name and Taxable Income from this table where Income Tax is more than 200000.
 - Display all the rows from this table.
 - Display the total Income Tax collected from this table and label it as TOTAL TAX.
 - Display Name, City and Taxable Income of the Employee whose name is "Kalpesh Joshi".

- Q5. (A) Answer **any one** sub-question from (a), (b) in MS-EXCEL (8)
- (a) The following data has been entered in a worksheet.

	A	B	C	D	E
1	F NAME	GENDER	DEPARTMENT	CITY	SALARY
2	NIHAL	M	EXPORT	PUNE	50000
3	GAYATRI	F	ADMIN	MUMBAI	80000
4	RAMYA	F	IT	NASIK	98000
5	SMITH	M	IT	NASIK	70000
6	ALAN	M	EXPORT	PUNE	35000
7	SRUSHTI	F	ADMIN	PUNE	74000
8	POOJA	F	EXPORT	MUMBAI	65000
9	SAIF	M	ADMIN	PUNE	63000
10	PRANAV	M	ADMIN	MUMBAI	78000

Write the steps to create a Pivot table showing the average salary and maximum salary department wise in column G.

- (b) In the following worksheet the cost of machinery is entered in cell B2, number of years is entered in B3 and rate of depreciation is entered in cell B4 (8)

	A	B	C	D	E	F
1				YEARS	DEP	WDV
2	COST	1000000		1		
3	YEARS	6		2		
4	RATE	12%		3		
5				4		
6				5		
7				6		

Write steps to obtain the year wise depreciation DEP and written down value WDV in columns E and F respectively where depreciation is computed using reducing balance method.

Q5. (B)

Answer **any one** sub-question from (c) , (d) in MS-EXCEL
(c) The following data has been entered in a worksheet:

(7)

	A	B	C	D	E
1	NAME OF SALESMAN	SALES	COMMISSION	ADDITIONAL COMMISSION	TOTAL COMMISSION
2	Shantanu	58000			
3	Vijay	23800			
4	Bhavana	56000			
5	Karan	72300			
6	Shiv	64200			
7	Poornima	28000			

Write the steps to calculate

i) Commission at the rate of 15%.

ii) Additional Commission at the rate of 20% or Rs.5000 whichever is maximum.

iii) Total Commission = Commission + Additional Commission.

(d) Explain the following built in functions in MS-EXCEL

1. PV()

2. NPV()

3. PPMT()

4. SUM()

5. MIN ()

6. ABS()

7. ROUNDDOWN()

Time -2.5 hours

Marks – 75

- N.B. 1. All questions are compulsory.
2. Figures to the right indicate full marks.

- Q. 1. Answer Any Two of the following questions: (15)
- a) Define Marketing Research. Explain its advantages in brief.
 - b) Explain various components of Marketing Information System (MIS)
 - c) What are the career options available in Marketing Research?
- Q. 2. Answer Any Two of the following questions: (15)
- a) What is Research Design? Explain its significance in brief.
 - b) Explain the steps in formulating Research Design.
 - c) What is a Questionnaire? Explain essentials of a good Questionnaire.
- Q. 3. Answer Any Two of the following questions: (15)
- a) Explain the advantages and disadvantages of Telephone Interview.
 - b) What are the different sources of collecting Secondary Data?
 - c) Distinguish between Primary and Secondary Data.
- Q. 4. Answer Any Two of the following questions: (15)
- a) What do you mean by Editing of data? How Office Editing is different from Field Editing?
 - b) What is Analysis of Data? Explain its importance in brief.
 - c) Explain contents of a Research Report.
- Q. 5. A] Rewrite the statement by choosing the appropriate option. (05)
- a) Motivation research attempts to answer ----- of consumer behaviour.
(What, Why, When)
 - b) ----- is a critical evaluation of a company's past and present sales performance.
(Sales Research, Sales Analysis, Market Analysis)
 - c) ----- questions are also known as 'free answer' or 'free response' questions.
(Open ended, closed ended, multiple choice)
 - d) Garbage Analysis is used in -----method of data collection.
(Observation, survey, experimentation)
 - e) ----- is a process of grouping heterogeneous data into limited number of categories or classes. (Coding, Classification, Tabulation)