

Date  
 07/03/2018

(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

- Q.1 A Attempt any two sub-questions from (a), (b),(c) in MS-EXCEL(True/False) 02**
- (a) You cannot apply fonts to data.
  - (b) The horizontal and vertical lines on the worksheet are called gridlines.
  - (c) In a spreadsheet, formulas recalculate the results if the data in any cells Changes.
- B Attempt any two sub-questions from (d), (e),(f) in MySQL(Multiple Choice) 02**
- (d) The data type represented by True or False is called \_\_\_\_\_  
 A) integer B) date C) char D) boolean
  - (e) To make changes in the data already entered in the table we use \_\_\_\_\_  
 A) Alter Table B) Update and Set C) Select D) Create
  - (f) In the ALTER TABLE statement to change the name of the column we use \_\_\_\_\_ clause.  
 A) Modify B) Change C) Add D) Drop
- C Attempt any six sub-questions from (g),(h),(i),(j),(k),(l),(m),(n),(o) in Data Communications, Networking and Internet. (True/False). 06**
- (g) Real-time delivery of data means data is delivered without any significant delay.
  - (h) Protocol is not necessary for data communications.
  - (i) Binary number system is a positional number system.
  - (j) In distributed processing, processing of data occurs on more than one processor.
  - (k) A LAN is larger than a MAN.
  - (l) Peer-to-peer networks are designed for more than 50 users.
  - (m) Fibre optic cables are not affected by electrical signals.
  - (n) ADSL provides a dedicated connection with the Internet.
  - (o) The POP protocol is used to link various documents on the WWW.
- D Attempt any five sub-questions from (p),(q),(r),(s),(t),(u),(v),(w) in Data Communications, Networking and Internet. (Multiple Choice) 05**
- (p) Which of the following parameters is important for effective data transmission?  
 A) Timeliness B) delivery C) accuracy D) all the above
  - (q) The three important goals of data communications are delivery at correct destination, accurate delivery and \_\_\_\_\_.  
 A) late delivery B) timely delivery C) next day delivery D) on the spot delivery
  - (r) In \_\_\_\_\_ topology, all the nodes are connected with a single cable.  
 A) Bus B) Ring C) Star D) None of these
  - (s) Encryption and decryption are responsibilities of which layer?  
 A) Application layer B) Presentation layer C) Network Layer D) Transport Layer
  - (t) Which of these is the fastest Internet account?  
 A) ISDN account B) Shell account C) Dial-up account D) Broadband account
  - (u) Web pages are developed by using :  
 A) HTTP B) HTML C) POP D) SMTP
  - (v) An IP address is made up of \_\_\_\_\_ bits.  
 A) 8 B) 16 C) 32 D) 64



Q.4

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

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- A (a) There exists a table Class containing columns Roll Number (RNO, integer), Students Name (SNAME, character), Age (AGE, integer), Mobile Number (MOBILE, integer) and Fees Paid (FPAID, numeric).

Write MySQL queries for the following.

- i) Display all the rows from this table where Student Name contains 'p'.
- ii) Display all the rows from this table where Age is more than 20.
- iii) Display Roll Number, Student Name labeled as 'Student Name' and Fees Paid from this table.
- iv) Display Roll Number, Student Name and Age from this table where Fees Paid is more than 10000.
- v) Display all the rows from this table in the ascending order of Fees Paid.
- vi) Display all the rows from this table where Age is divisible by 3.
- vii) Display Students Name, Mobile Number and Fees Paid from this table

- (b) There exist a table custom containing the columns customer number(CNO Integer), Customer Name (Cname, Character), Balance due(Bala, numeric) and date of transaction(DT,date).

Write a MySQL statement for the following.

- i) Display all the rows where the name end with 'A';
- ii) Display all the rows where the balance due is less than average balance due.
- iii) Display the customer number,maximum balance due and the number of balances due grouped by customer number.

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

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- (c) There exists Table name : Employee details(EMP\_DETAILS)columns in the table: Employee no.(Primary key)((emp\_no), first name (fname), Surname (Surname), middle name (Mname), age(Age), date of birth(DOB), gender(Gender), name of the department(Dept), designation(Desi), and salary(Sal).

Write MySQL statements for the following.

- i) To display Employee no. , first name, surname, last name and salary of highest paid 3 employees.
- ii) To display Employee no. , first name, surname and age of all those who are not in "Sales" dept.
- (iii)To display Employee no. , first name, surname,dept of employee in either 'sales ' dept or 'Marketing' dept.
- iv) To display no.of employees whose salary is less than 10000.

- (d) There exist a table book containing the columns account number(ACNNo), book name(Bname), Number of copies(NOC) ,Value of the book(B\_rate) and date of Publication(Dof\_P).

Write the my SQL statement for the following

- i) Delete all books whose book name is "Economics".
- ii) Display all the book details in ascending order of book rate.
- iii) Display the account number, book name and date of Publication from the table.
- iv) Display Minimum number of books, Maximum number of books, Average of book as per book name.

Q.5 A Attempt any ONE sub-question from (a), (b) in MS EXCEL

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(a) The following data has been entered in a worksheet.

Write the steps to obtain

- a. HRA as 25% of the Basic or 10,000 whichever is less in column C
- b. DA as 20% of the Basic in column D.
- c. GROSS as BASIC+HRA+DA in column E.
- d. TAX as 15% of GROSS in column F.
- e. NET=GROSS-TAX in column G.

	A	B	C	D	E	F	G
	NAME	BASIC	HRA	DA	GROSS	TAX	NET
1	Alex	45000					
2	Eliza	28000					
3	Mahesh	34000					
4	Neeta	42000					
5	Yuvi	40000					

(b) The following spread sheet contains the amounts invested, the rate of interest and the period of investment in years. Write the steps to obtain maturity amount at the end of period using simple and compound interest in columns C and D

	A	B	C	D
	Name	Amount	Maturity Amt with Simple Int.	Maturity Amt with Compound Int.
2	Rehan	200000		
3	Devansh	540000		
4	Ajit	340000		
5	Anuli	160000		
6	Number of years (n)	5		
7	Rate of Interest (r%)	7.7		

Given that, Maturity Amount with Simple Interest (S.I) =  $p + (p*n*r)/100$

And Maturity Amount with Compound Interest (C.I) =  $p*(1+r/100)^n$

Q.5 B Attempt any ONE sub-question from (c), (d) in MS EXCEL

(c) Write the steps to -

- a) Sort the data in the ascending order of Name
- b) Calculate subtotal of salary for each department.

	A	B	C	D
1	Name	Age	Dept	Salary
2	Anita	41	IT	320000
3	Anish	24	A/C	200000
4	Rita	35	IT	205000
5	Rushabh	42	SALES	302000
6	Alex	50	PURCHASE	540000
7	Eliza	44	A/C	320000
8	Mahesh	27	A/C	501000
9	Neeta	32	MKT	520000
10	Yuvi	25	SALES	140000
11	Sandeep	44	A/C	410000
12	Lia	38	ADMIN	430000

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

1. MIN ()
2. MOD ()
3. ABS ()
4. COUNT ()
5. AVERAGE ()
6. RATE ()
7. FLOOR ()

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