Duration: 2 Hours 30 min **Max Marks: 75**

Note : All questions are compulsory

Q 1 **A** Attempt any Two sub questions from a),b) & c) in MS-Excel   **2**
(**True or False**)
  a If a cell display #### it means that it contains invalid data
  b The default cell reference is an absolutes cell reference
  c Every formula must begins with $ sign

B Attempt any Two sub questions from d),e) and f) in My SQL   **2**
(**Multiple Choice**)
  d To make changes in the structure of the existing table we use ____
      1) Alter   2) Update   3) Set   4) Create
  e To save the transaction we use _____
      1) Commit   2) Rollback   3) Select   4) Cancel
  f A data base contains one or more _____
      1) Rows   2) Tables   3) Columns   4) Databases

C Attempt any Six sub questions from g),h),i),j),k),l),m),n), and o) in Data   **6**
Communication ,Networking and Internet
(**True or False**)
  g HTTP is a protocol on the internet
  h A bus topology uses a single cable
  i A fiber optic cable carries data using Electric current
  j MAN is spread over many countries
  k Google.com is a search engine
  l Failure of a node bring down the entire network in a star topology
  m A blog is a digital diary
  n A cyber crime means cheating through computer or internet
  o An email address can contains 7 layers

D Attempt any Five sub questions from p),q),r),s),t),l),u),v), and w) in Data   **5**
Communication ,Networking and Internet
(**Multiple Choice**)
  p Each web page has a unique address called a __
      a) Bridges   b) URL   c) Email   d) None of these
  q _____ is used to create Web pages
      a) HTTP   b) HTML   c) SMTP   d) FTP
  r A hyperlink can appear as ____
      a) Only Text   b) Only Images   c) Code   d) Both text and
                                                               Images
  s The fastest transmission media is
      a) Twisted pair   b) Fiber Optics   c) Co-axial   d) Wireless
  t The exchange of information between computers is governed by a set of rules called
      a) Media   b) Protocol   c) Channel   d) Sender
  u A _____ joins multiple computers together to form a single network
      a) Bridge   b) Switch   c) Hub   d) Router
  v In _____ topology all nodes are connected directly to the central system
      a) Bus   b) Ring   c) Star   d) Mesh
  w A place on the web page that signals a connection to another webpage is called
      a) Protocol   b) Blog   c) Link   d) Google

Q 2	A		Attempt any one sub questions from a) & b) in Data Communication ,Networking and Internet	8
		a	Explain briefly the topologies Star and Ring used in networking.	
		b	Write short notes on i) LAN ii) WAN	
	B		Attempt any one sub questions from c) & d) in Data Communication ,Networking and Internet	7
		c	What is OSI model? Explain the three layer of OSI model.	
		d	What is hacking and explain any three types of hackers	
Q 3	A		Answer any one sub question from a) and b) in My SQL	8
		a	Write MySQL statement to create a table called sales_details having the columns Customer id(Cid, integer, Primary key, Not Null), Name (CName character with variable width 30 columns),order no (OrderNo Integer),Item name(Item_name character 20),quantity ordered(Qty_order Integer),unit price(Unit_price Integer),date of order(DOA date).	
		b	Write MySQL statement to create a table called STUDENTS Columns in the table: Admission number (Adm_no Integer Primary key),first name (Fname character(15), Last name (Lname character(15)),Date of birth(Dob date), marks in HSC(Hsc_Marks Integer), gender (Gender Enum),Admission no. should be automatically generated every time you enter a record	
	B		Answer any one sub question from c) and d) in My SQL	7
		c	There exists a table called Student containing the columns Roll Number (RNO, integer, Primary Key), Name (NAME, character variable width 20), Date of birth (DOB, Date), Gender (GENDER, character width 1) and Division (DIVISION, character variable width 4). Write MySQL statements for the following. i) Display the structure of the table student. ii) Display all the information from the table student. iii) Add a new column Mobile Number (MOB, integer) at the end of the table Student iv) Delete the row where roll number of the student is 96. v) Change the Divison of students with roll number 95 to Div B vi) Update Mobile number 8652007978 of student whose rollno is 10. vii) Rename the table Student as Student_Info.	
		d	Explain the following built in function in My SQL 1)LEFT() 2) RIGHT() 3) MID() 4) NOW() 5) POW() 6)LENGTH() 7) CONCAT ()	
Q 4	A		Answer any one sub question from a) and b) in My SQL	8
		a	There exists a table LIBRARY containing accession number (ASNO, integer), book name(BNAME, character), author's name (AUTHOR, character) and number of pages (NUM, Integer). There exists another table BOOKS containing columns student number (SNO, integer), accession number (ASNO, integer) and date of issue (DOI, date) Write MySQL queries for the following: i) Display the book name, author name, student number and date of issue for LIBRARY having more than 150 pages using both the tables ii) Display the book name, accession number and date of issue for all the books using both the tables iii) Display book name, author name and number of pages from the table LIBRARY for those books where the number of pages is above the average number of pages. iv) Display student number, accession number and date of issue for student number 101 from the table BOOKS	
		b	There exists a table CUSTOMER containing the following columns: customer number (CNO, integer), customer name (CNAME, character), balance due (BD, numeric)	