Examination	: External Examination	**Seat No.**	:	
Date	: 23-11-2021	**Day**	: Tuesday	
Time	: 11:30 to 1:00	**Max. Marks**	: 30	

INSTRUCTIONS:
1. Figures to the right indicate maximum marks for that question.
2. The symbols used carry their usual meanings.
3. Assume suitable data, if required & mention them clearly.
4. Draw neat sketches wherever necessary.

Q.2   **Attempt Any Three from the following questions.**   [12]

(a)   Write a program using wizard control where following sections   [4]
are in wizard
1) user enter basic information into two textboxes
2) Select mobile phone from dropdown list
3) Enter shipping address textbox
4) Final section where information entered by user display in
label controls.
Also Write down code for next and previous wizard movement.

(b)   Write down design and code for calculator application where application   [4]
web form has two textboxes for input and one label for output. Four
buttons captions are "+","-","/" and "*". All four event map with single
event. When user press button then respective arithmetic operation will
perform.

(c)   **Apply** the concept of caching to solve the below web development   [4]
problem
If user wants to create a website, user can able to display all the records
of employees on 20 pages of website. Employees' details are stored in
employee relation. Now How developer can use cache mechanism to
speed up all the web pages loading?
Employee(emp_id int,emp_name varchar(50),emp_salary int)
Write the code for two pages 1) creation of cache , and 2) utilization of
cache
(write down database connectivity code to retrieve records in **creation of
cache page**)

(d)   **Analyze** the below problem statement and give appropriate solution   [4]
A Company has employee relation (table) on its server. Now company
want to give **interface to the world** such a way that **any web developer
can use that details and display employee record whose emp_id is
pass into this interface**. Company server does not provide any .aspx
page to fetch the information of employee. Use the employee relation
shown in q2(c). Design appropriate interface.

Q.3 **Attempt all the following questions.**

   (a)   **Solve** the problem using concept **that allows you to create model** [6]
       classes that represent a relational database.
       Create Insert ,update operation on employee relation without explicitly
       creating model class of **employee relation shown in q2(c)** Use
       appropriate MVC concept to solve the above problem

   (b)   Write program **to insert faculty record in faculty relation** using [6]
       sqlclient database **sqlparameter** classes of sqlclient. faculty
       relation(faculty_id numeric(10),faculty_name varchar2(20),
       faculty_expert varchar2(20))

   (c)   Implement following program using Calendar control   [6]
       a) Disable weekend dates in Calendar
       b) Add hyperlink of result on 23rd September and when user click it
       redirected to another page name result.aspx.
       c)How to set so that user can select week and write a code to print all
       dates selected by user

<div align="center">**OR**</div>

Q.3 **Attempt all the following questions.**

   (a)   Create Table Control at runtime. Two drop down lists is provided for [6]
       selecting number of rows and columns. As per selected by user number
       of rows and columns will dynamically display in table. Every cell of table
       also contains hyperlink control with row number and column number.

       Solve following using concept **that does not allows you to create model** [6]
       classes that represent a relational database.
   (b)   How to display all the record from employee relation given in q2(c) by
       explicitly creating model class of employee relation. Use appropriate
       MVC concept to solve the above problem

   (c)   Developer want to verify username and password enter by user in [6]
       textboxes is match with database relation. He will use following relation
       to validate the user. Employee(emp_id int,emp_name varchar(20),salary
       int) How He can execute this using asp.net by writing code using
       sqlclient namespace.