

**M.Tech. IN ADVANCED INFORMATION
TECHNOLOGY – SOFTWARE TECHNOLOGY
(MTECHST)**

Term-End Examination

December, 2014

00238

MINE-019 : WEB APPLICATION DEVELOPMENT

Time : 3 hours

Maximum Marks : 100

Note :

- (i) Section I is **compulsory** and carries 30 marks. Answer all the questions.
- (ii) Section II carries 70 marks. Answer any **five** questions.
- (iii) Assume suitable data wherever required.
- (iii) Draw suitable sketches wherever required.
- (iv) *Italicized figures to the right indicate maximum marks.*

SECTION I

1. Solve the following case study.

30

The PCB Web store has an enabled SQL database for the storage of customer information and order information. It allows the customer to quote the PCB (Printed Circuit Board) price, and make purchases online. In order to make

purchase online, the customer must first register. The customer may delete item from the current shopping cart. The customer may also view the order history and track his/her order status. It also includes web service that is a price quote model and the web service that uses the ASP. Net web applications. Design the ASP. Net application that solves the above case study.

SECTION II

2. Create an application using File Upload Control, which will upload your photo, and display it in an Image Control. The file type must be image only and file size should not exceed 1 MB. 14
3. Why are different validators used by developers to design web applications ? Explain Custom validator, Regular Expression validator and Range validator controls with examples. 7+7=14
4. (a) How does ASP.Net maintain the state of a session ? Explain its uses. 4+3=7
- (b) How can one handle ADO.NET DbConnection(s) in long running web service with DbDataAdapters ? Write an example that will show this. 4+3=7
5. Write code to accept user id and password from the user. Display welcome.asp page for correct login and error message for incorrect login. User data is stored in a table Myusers (userid, password). Name of the database is Inventory.mdb. 14
6. What is Cookies Collection ? What are the different types of Cookies ? How you can create, read and destroy a Cookie ? Explain with examples. 3+4+7=14

7. Design a form and write code to :

14

- (a) Populate and display item's names in a dropdown list.
- (b) Select an item from dropdown list and display its details in underlying text boxes.
- (c) Add a record.
- (d) Delete selected record.
- (e) Edit selected record.

Use connected architecture.

Name of Table : ItemMaster (Item No. Name, Description, Unit of Measure, Price)

Name of Server : MyAspDB (SQL Server).
