

**B.TECH. SEM -V (CHEMICAL 2014 COURSE (CBCS) : WINTER -
2017**

SUBJECT : COMPUTER PROGRAMMING FOR CHEMICAL ENGINEERS - I

Day : **Thursday**
Date : **18/01/2018**

Time **02.30 PM TO 05.30 PM**
Max. Marks : **60**

W-2017-2114

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non-programmable **CALCULATOR** is allowed.
- 4) Assume suitable data if necessary.

Q.1 a) What is data type? Explain various data types used in visual basic with appropriate example. **(06)**

b) Explain in detail visual basic new project dialog box. **(04)**

OR

Q.1 a) Draw interface and write a program for four functions (addition, subtraction, multiplication and division) simple pocket calculator using array of command buttons. **(06)**

b) Explain in short the various parts of visual basic window/interface. **(04)**

Q.2 a) Explain check box control with suitable example. **(06)**

b) Draw interface and write a program to accept a number from user in Text box 1 and display message whether the number is Palindrome or not Palindrome, when user clicks on a command button having caption "Check Palindrome or not". **(04)**

OR

Q.2 a) What is option button? Why it is called radio button? Explain option button with suitable example. **(06)**

b) Draw interface and write a program to accept a number from user in Text box 1 and display its factorial in Text box 2, when user clicks on a command button having caption 'factorial'. Clear all text boxes using 'Clear All' command button. **(04)**

Q.3 a) Draw interface and write a program for design of dryer to carry out operations given below: **(06)**

i) Accept values of wet solids fed to dryer in kg, % solids present in wet solids, % moisture in product solids and % solids in product solids from user in Text box 1, Text box 2, Text box 5 and Text box 6 respectively.

ii) Display water removed (kg) and product solids obtained (kg) in Text box 3 and Text box 4 respectively, when user clicks on a command button having caption "Calculate water removed and product solids obtained in kg".

iii) Clear all text boxes using "Clear All" command button.

(Note : Take six text boxes, six labels and two command buttons.)

b) Explain timer control and write a program to transfer a command button from left side to right side of a form after time interval of thousand milliseconds. **(04)**

OR

Q.3 a) What are different parameters passed to mouse event? Explain 'Shift As Integer' with suitable example. **(06)**

b) Draw interface and write a program to accept a number from user in Text box 1 and display its table in list box 1, when user clicks on a command button having caption "Display table". **(04)**

P.T.O.

- Q.4 a) What is HTML? Explain any six HTML tags with suitable example. (06)
- b) Explain client server applications and we applications with suitable example. (04)
- OR**
- Q.4 Write HTML code to display following web page. (10)

	<u>COMPUTER SHOPPE</u>
“Fast Service and Best Price”	
<ul style="list-style-type: none"> ▪ <u>Brands:</u> <ul style="list-style-type: none"> • DELL • SAMSUNG • LENOVO • ACER ▪ <u>Driver:</u> <ol style="list-style-type: none"> 1. Laptops 2. Computers ▪ <u>Photo gallery</u> 	
(Website developd by XYZ)	

- Note :
- i) Logo.gif is an image file located in path E:\Images.
 - ii) Use font “Times New Roman” (size 18) for headings.
 - iii) Background colour of web page is “Pink”.
 - iv) “Phoyo gallery” hyperlinks to page “gallery.html”.

- Q.5 a) Explain different tags used to insert table in a web page. (06)
- b) What are frames? Describe the different tags for defining the frame. (04)
- OR**
- Q.5 Write HTML code to display following table: (10)

PRICE TABLE		
Company Name	Item Name	
	Gel Pen	Ball Pen
Reynold’s	Rs. 40	Rs. 30
Cello	Rs. 50	Rs. 40
Montex	Rs. 35	Rs. 25

Place a boarder for table and align the table in centre of screen.

- Q.6 Write HTML code to display following form: (10)

<u>Online School Enquiry Form</u>	
Students Full Name	<input style="width: 100%;" type="text"/>
Date of Birth	<input style="width: 100%;" type="text"/>
Address	<input style="width: 100%;" type="text"/>
Academic Year	<input style="width: 100%;" type="text"/>
Applying for	<input type="radio"/> Pre- Primary <input type="radio"/> Primary <input type="radio"/> Secondary
Email	<input style="width: 100%;" type="text"/>
Message	<input style="width: 100%;" type="text"/>
<input type="button" value="Submit"/>	<input type="button" value="Reset"/>

- OR**
- Q.6 What is DHTML? Explain CSS and DOM components of DHTML. (10)

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