

**B.Tech. SEM -V (Chemical 2014 Course (CBCS) : WINTER - 2018**

**SUBJECT: COMPUTER PROGRAMMING FOR CHEMICAL ENGINEERS - I**

Day: Thursday  
Date: 29/11/2018

**W-2018-2377**

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

**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 variable? Give variable declaration syntax and explain various types of variable declaration with suitable example. **(06)**
- b)** Explain in short the various parts of visual basic window / Interface. **(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)** What is visual basic? Explain editions of visual basic. **(04)**

- Q.2 a)** What is list box control? What are various methods of list box? Explain list 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 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)**

**OR**

- 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 entered number is Armstrong or not Armstrong, when user clicks on a command button having caption 'Check Armstrong or not'. **(04)**

- Q.3 a)** Draw interface and write a program for design of single effect evaporator to carryout operations given below: **(06)**
- i) Accept values of amount of weak liquor in kg/hr fed to the single effect evaporator, % NaOH present in weak liquor, % NaOH present in thick liquor from user in Text box 1, Text box 4 and Text box 5 respectively.
  - ii) Display kg/hr of water evaporated (Y) and kg/hr of thick liquor obtained (X) in Text box 2 and Text box 3 respectively, when user clicks on a command button having caption 'Calculate X and Y values in kg/hr'.
  - iii) Clear all Text boxes using 'Clear All' command button. (Note: Take five Text boxes, two command buttons and five labels.)
- b)** Distinguish between key press and other key events. **(04)**

**OR**

- Q.3 a)** What are different parameters passed to mouse event? Explain 'Button As Integer' with suitable example. **(06)**
- b)** Write applications of visual basic for chemical engineering. **(04)**

**P.T.O.**

- Q.4 a) What is HTML? Explain any six HTML tags with suitable example. (06)  
 b) Explain web browser and internet service provider with suitable example. (04)

OR

- Q.4 Write HTML code to display following web page: (10)

Logo.gif	<b>VIVO IPL</b>
WELCOME TO IPL WORLD	
<ul style="list-style-type: none"> <li>▪ IPL TEAMS:           <ol style="list-style-type: none"> <li>1. Mumbai Indians</li> <li>2. Chennai Super Kings</li> <li>3. Kings XI Punjab</li> <li>4. Kolkata Knight Riders</li> </ol> </li> <li>▪ VENUES:           <ul style="list-style-type: none"> <li>• Wankhede Stadium, Mumbai</li> <li>• Eden Garden, Kolkata</li> <li>• M.A. Chidambaram stadium, Chennai</li> </ul> </li> <li>▪ CONTACT US:</li> </ul>	
( Website developed by xyz)	

- Note: i) Logo.gif is an image file located in path D:/ IPL Images.  
 ii) Title is in red colour – Font “Arial” (Size 18).  
 iii) IPL teams and venues are in blue colour – Font “Times New Roman” (Size 14).  
 iv) Background colour is Yellow.

- Q.5 a) How to create and use tables in HTML? Explain with an example. (06)  
 b) Explain different types of frames used in webpage designing. (04)

OR

- Q.5 Write HTML code to display following table: (10)

ABC Hotel Room Tariff			
Deluxe Room		Executive Room	
AC	Non-AC	AC	Non-AC
Rs. 1500	Rs. 1000	Rs. 2500	Rs. 1500

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

Online Registration form for International Conference	
Name	<input type="text"/>
Gender	<input type="radio"/> Male <input type="radio"/> Female
Designation	<input type="text"/>
Email	<input type="text"/>
Payment Receipt Number	<input type="text"/>
<input type="button" value="Submit"/>	

OR

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

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