

B. Tech. DEGREE EXAMINATIONS, OCTOBER 2016

Model Question Paper

CH1029 Process Modelling and Simulation Laboratory

Max Marks: 20

Duration : 50 min

Part – A

Answer ALL questions

(5 x 2 = 10 Marks)

1. Compute

$$2 + \frac{3 + \frac{4}{5}}{5 + \frac{3}{4}}$$

2. Choose the most appropriate word from the options given below to complete the following sentence:

A pair of single right quote (' ') is used to enclose

(a) character string (b) command line (c) title of a command (d) all of these

3. Find the roots of the polynomial $p(x) = x^4 + 10x^3 + 35x^2 - 50x + 24$.

4. Which of the following is TRUE? The command input ('string') displays

- (a) the text in string on the screen and waits for the user to give keyboard input
- (b) the text in string on the screen and do not wait for the user input
- (c) both (a) and (b)

5. Write the difference between modelling and simulation.

Part – B

Answer ALL questions

(2 x 5 = 10 Marks)

6. Solving an example material balance problems involving system of linear equations.

7. Creating a function file/script file to solve empirical equations in chemical engineering.

(or)

8. Solving a first order differential equation model of in initial value problems in chemical engineering applications
