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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **CO206U - Problem Solving Using Python**

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Maximum Marks : **60**   Duration : **3 Hrs**

Edit   Print   View Answer Key   Close   **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. *All questions are compulsory.*
2. *Illustrate your answer with suitable figures/sketches wherever necessary.*
3. *Assume suitable additional data; if required.*
4. *Use of logarithmic table, drawing instruments and non programmable calculators is allowed.*
5. *Figures to the right indicate full marks.*

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1)   Solve all subquestions

   a)   What are the characteristics of algorithm? Explain algorithm with example   [4]

   b)   What is flowchart? What are the guidelines use to draw a flowchart   [4]

   c)   Explain function? what are the types of function   [4]

   d) Write a program to swap two variables   [6]

2)   Solve any two sub question

   a)   Explain Modulus operator and Logical operators   [6]

   b)   Explain Conditional statement (if) with syntax   [6]

   c) Explain Recursion what are the advantages and disadvantages of recursion   [6]

3)   solve any two sub question

   a)   Write a program to find the largest number among the three input numbers   [6]

   b)   Explain List ,list operations and list slice   [6]

   c)   What is the use of str.upper() and str.lower() functions in string? Explain string comparison.   [6]

4)   solve any three subquestions

   a) Explain Files with modes   [6]

   b)   What is an exception? Explain with examples. List some excetion types.   [6]

   c) Explain in details about namespaces and scoping   [6]

   d)   What is class and object ?write a program to demonstrate class and object   [6]

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