

### UNIT- III

### INTEGER DYNAMIC PROGRAMMING

#### PART-A

1. What do you mean by integer programming problem?
2. Define a pure integer programming problem.
3. Define a mixed integer programming problem.
4. Differentiate between pure and mixed IPP.
5. What are the methods used in solving IPP
6. Explain Gomorian constraint (or) Fractional Cut constraint.
7. Where is branch and bound method used?
8. What is dynamic programming?
10. Define the terms in dynamic programming: stage, state, state variables
11. Give a few applications of DPP
12. State Bellman's principle of optimality.
13. What are the advantages of Dynamic programming?

#### PART-B

1. Solve the following mixed integer programming problem by using Gomory's cutting Plane method  
  
Maximize  $Z = x_1 + x_2$   
Subject to the constraints  
 $3x_1 + 2x_2 \leq 5,$   
 $x_2 \leq 2$

# Dynamic Programming Exam Questions And Solutions

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