

## Mathematics - ICS Part 2 Mathematics Chapter 5 Short Questions Preparation

Q1.

Ans 1:

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Q2. Define decision variables.

Ans 1: The variables used in the system of linear inequalities relating to the problems of everyday life are non-negative are called decision variables.

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Q3.

Ans 1:

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Q4.

Ans 1:

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Q5.

Ans 1:

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Q6.

Ans 1:

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Q7. Define feasible solution.

Ans 1: The set of values of variables satisfying all the constraints lying in the first quadrant is known as feasible solution.

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Q8.

Ans 1:

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Q9. Check whether the region of graph  $2x + 3y > 1$  lies on the origin side or not.

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**Ans 1:** The graph of  $2x + 3y > 1$  is an open half plane.  
As  $2(0) + 3(0) > 1$  is not true.  
So the region is not on the origin side.

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Q10. Define an objective function.

**Ans 1:** A function, which is to be maximized or minimized, is called an objective function.

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