TEST - PAPER (CBSE/NCERT)

LINEAR PROGRAMMING

SESSION -2024-25

CLASS - 12th

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6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

Time: 1 hr

mm: 40

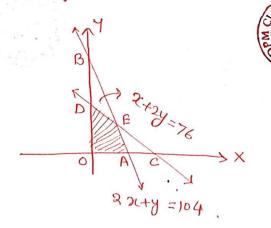
Q. 1. Determine the maximum value of z=11x+7ySubject to the constraints $2x+y \le 6x \le 2$, x>0, y>0

Q. 2. Maximise z = 3x+yy, Subject to-the constraints 2x+y \le 1, 270, y70.

B. 3. maximise the function z= 112 try, Subject to the constraints 253, y52,270 and y70.

8.4. Minimise z = 13x - 15y subject to the Constraints octy ≤ 7 , 2x - 3y + 670, 2x - 3y + 670.

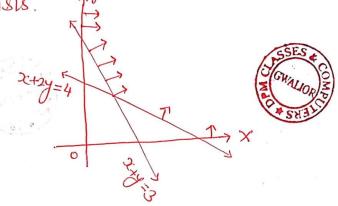
3.5. Determine the maximum value of z=3x+4y, if the feasible region (shaded) for a LAP is shown in the following figure.



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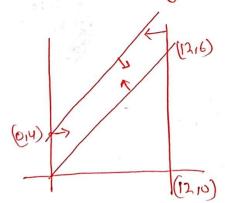
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of zigit exists.



B.7. Maximise $Z_1 = x + y$ subject to $x + y \le 8$. $2x + 3y \le 12$, $3x + y \le 9$ x > 0 and y > 0.

G.8 The feasible region for an LPP is shown in the following figure. Let f' = 3x - yy be the objective function maximum value of f is



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