



Prahladrai Dalmia Lions College of Commerce & Economics
(Government Aided & Affiliated to University of Mumbai & AICTE, New Delhi)
NAAC Re-accredited with 'A' Grade (III Cycle) ISO 21001:2018 Certified
University of Mumbai Recognised Research Centre in Accountancy, Commerce & Business Economics
A Government Approved Hindi Linguistic Minority Institute
54 Years of Streling Performance in Education

NOTICE

Date: 17/08/2026

This is to inform all SYBBI students that the internal assessment for the course MIM-I (20 marks) will be on the following criteria:

1. **Mandatory class test for 10 marks (already conducted in the month of August, 2026).**
2. **1 home assignment for 10 marks to be submitted during lecture timings only on:**
 - a) 8th September, 2026 for division A and
 - b) 12th September, 2026 for division B.
3. **Instructions for Assignments:**
 - a) Students have to be present in person for the submission of their assignment
 - b) Submission of assignment to be done on A4 size ruled paper ONLY. **The entire assessment must be handwritten by the student himself in legible handwriting** and stapled together in a booklet format.
 - c) **The Front page (top right hand side) should contain details:**
 - Name of the student
 - Roll no.
 - Class and Division
 - Semester
 - Course (Subject)
 - Date
 - Name of the assignment.
 - d) A google link will be provided to the students to upload their entire project in due course.

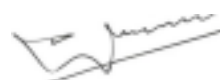
4. If the student fails to present himself on the given date and time for submission of project and assignment he/ she will be marked ABSENT for the said submission and no further chance will be given.



CA Durgesh Y. Kenkre
Coordinator
DI/N-STD/GEN/00



Ms. Subhashini Naikar
Vice Principal (SFC)



Prof.(Dr.) D.N Ganjewar
Principal

SYBBI MIM-I

NOTE:

1. Don't change the question number and sequence allotted to respective student roll number.

Home Assignment Sums

SYBBI A

ROLL NUMBER	ATTENDANCE PERCENTAGE	SUM NUMBER TO BE SOLVED	Total Number of sums
2001	78.57	5,7,10,15,20	5
2002	71.43	1,3,13,14,16,18,19	7
2003	42.86	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2004	35.71	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2005	100	5,7,10,15,20	5
2006	85.71	5,7,10,15,20	5
2007	7.14	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2008	57.14	2,4,6,8,9,10,12,14,16	9
2009	71.43	1,3,13,14,16,18,19	7
2010	71.43	1,3,13,14,16,18,19	7
2011	78.57	5,7,10,15,20	5
2012	92.86	5,7,10,15,20	5
2013	78.57	5,7,10,15,20	5
2014	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2015	57.14	2,4,6,8,9,10,12,14,16	9
2016	28.57	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
2017	71.43	1,3,13,14,16,18,19	7
2018	64.29	2,4,6,8,9,10,12,14,16	9
2019	64.29	2,4,6,8,9,10,12,14,16	9
2020	50	1,3,5,7,9,11,12,13,15,17,19	11
2021	21.43	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20

2022	35.71	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2023	85.71	5,7,10,15,20	5
2024	64.29	2,4,6,8,9,10,12,14,16	9
2025	78.57	5,7,10,15,20	5
2026	35.71	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2027	50	1,3,5,7,9,11,12,13,15,17,19	11
2028	28.57	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
2029	100	5,7,10,15,20	5
2030	7.14	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2031	64.29	2,4,6,8,9,10,12,14,16	9
2032	57.14	2,4,6,8,9,10,12,14,16	9
2033	64.29	2,4,6,8,9,10,12,14,16	9
2034	42.86	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2035	42.86	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2036	57.14	2,4,6,8,9,10,12,14,16	9
2037	7.14	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2038	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2039	71.43	1,3,13,14,16,18,19	7
2040	14.29	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2041	7.14	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2042	21.43	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2043	71.43	1,3,13,14,16,18,19	7
2044	85.71	5,7,10,15,20	5
2045	21.43	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2046	28.57	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
2047	14.29	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2048	57.14	2,4,6,8,9,10,12,14,16	9
2049	7.14	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2050	57.14	2,4,6,8,9,10,12,14,16	9
2051	50	1,3,5,7,9,11,12,13,15,17,19	11
2052	57.14	2,4,6,8,9,10,12,14,16	9
2053	57.14	2,4,6,8,9,10,12,14,16	9
2054	78.57	5,7,10,15,20	5
2055	71.43	1,3,13,14,16,18,19	7
2056	42.86	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2057	21.43	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2058	21.43	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2059	57.14	2,4,6,8,9,10,12,14,16	9
2060	64.29	2,4,6,8,9,10,12,14,16	9

SYBBI B

ROLL NUMBER	ATTENDANCE PERCENTAGE	SUM NUMBER TO BE SOLVED	Total Number of sums
2061	6.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20

2062	13.33	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2063	80	5,7,10,15,20	5
2064	40	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2065	6.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2066	13.33	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2067	13.33	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2068	66.67	1,3,13,14,16,18,19	7
2069	26.67	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
2070	26.67	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
2071	60	2,4,6,8,9,10,12,14,16	9
2072	86.67	5,7,10,15,20	5
2073	73.33	1,3,13,14,16,18,19	7
2074	46.67	1,3,5,7,9,11,12,13,15,17,19	11
2075	66.67	1,3,13,14,16,18,19	7
2076	66.67	1,3,13,14,16,18,19	7
2077	66.67	1,3,13,14,16,18,19	7
2078	26.67	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
2079	93.33	5,7,10,15,20	5
2080	46.67	1,3,5,7,9,11,12,13,15,17,19	11
2081	40	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2082	20	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2083	20	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2084	13.33	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2085	20	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2086	40	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2087	60	2,4,6,8,9,10,12,14,16	9
2088	6.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2089	13.33	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2090	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
2091	60	2,4,6,8,9,10,12,14,16	9
2092	100	5,7,10,15,20	5
2093	93.33	5,7,10,15,20	5
2094	20	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2095	80	5,7,10,15,20	5
2096	73.33	1,3,13,14,16,18,19	7
2097	40	1,2,3,5,7,11,13,14,16,17,18,19,20	13
2098	80	5,7,10,15,20	5
2099	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
2100	86.67	5,7,10,15,20	5
2101	6.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2102	53.33	1,3,5,7,9,11,12,13,15,17,19	11
2103	60	2,4,6,8,9,10,12,14,16	9
2104	86.67	5,7,10,15,20	5
2105	46.67	1,3,5,7,9,11,12,13,15,17,19	11
2106	78.57	5,7,10,15,20	5
2107	64.29	2,4,6,8,9,10,12,14,16	9

2108	6.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
2109	84.62	5,7,10,15,20	5
2110	71.43	1,3,13,14,16,18,19	7
2111	50	1,3,5,7,9,11,12,13,15,17,19	11
2112	50	1,3,5,7,9,11,12,13,15,17,19	11

1. A factory manufactures two products A & B. To manufacture one unit of A 1.5 machine hours and 2.5 hours labours hours are required. To manufacture one unit of B 2.5 hours and 1.5 labour hours are required. In a month, 300 machine hours and 240 hours labours hours are available. Profit per unit for A is Rs.50 and for B is Rs.40.
Form LPP.
2. Solve the LPP by graphical method

$$\text{Max } Z = 5x + 3y$$
Subject to constraints

$$3x + 5y \leq 15$$

$$5x + 2y \leq 10$$
Where $x \geq 0$ & $y \geq 0$
3. Consider a chocolate manufacturing company that produces only two types of chocolate A and B. Both the chocolates require Milk and Choco only. To manufacture each unit of chocolate A and B, the following quantities are required:
Each unit of A requires 1 unit of Milk and 3 units of Choco
Each unit of B requires 1 unit of Milk and 2 units of Choco
The company kitchen has a total of 5 units of Milk and 12 units of Choco. On each sale, the company makes a profit of Rs 6 per unit chocolate A & Rs 5 per unit chocolate B. Now, the company wishes to maximize its profit. Formulate LPP to maximize profit.
4. Two different kinds of food A and food B are being considered to form a weekly diet. The minimum weekly requirement of fats, carbohydrates and protein are 16, 25, 15 units respectively.
One kg. of food A has 5 units of fats, 15 units of carbohydrates and 8 units of protein. One kg. of food B has 7 units of fats, 10 units of carbohydrates and 9 units of protein. The price of food A is Rs.4 per kg and that of food B is Rs.3 per kg. Form the L.P.P to minimize the cost.
5. Solve the LPP by graphical method

$$\text{Max } Z = 5x + 3y$$
Subject to constraints

$$3x + 5y \leq 15$$

$$5x + 2y \leq 10$$
Where $x \geq 0$ & $y \geq 0$
6. Solve the LPP by graphical method

$$\text{Min } Z = 600x + 500y$$
Subject to constraints

$$2x + 1y \geq 80$$

$$1x + 2y \geq 60$$
Where $x \geq 0$ & $y \geq 0$

7. Solve the following LPP by using graphical method:

$$\text{Minimize } z = 2x + 3y$$

Subject to constraints

$$x + y \geq 6$$

$$2x + y \geq 7$$

$$x + 4y \geq 8 \quad \text{where } x, y \geq 0.$$

8. Solve the following LPP by using graphical method:

$$\text{Minimize } z = 75x + 50y$$

Subject to constraints

$$8x + 5y \leq 60$$

$$4x + 5y \leq 40 \quad \text{where } x, y \geq 0.$$

9. Solve the following LPP by using graphical method:

$$\text{Minimize } z = 5x + 7y$$

Subject to constraints

$$2x + y \geq 8$$

$$x + 2y \geq 10 \quad \text{where } x, y \geq 0.$$

10. Solve the following LPP by using graphical method:

$$\text{Minimize } z = 3x + y$$

Subject to constraints

$$2x + 3y \leq 6$$

$$x + y \geq 1 \quad \text{where } x, y \geq 0.$$

11. Solve the LPP by graphical method

$$\text{Max } Z = 2x + 3y$$

Subject to constraints

$$x + y \leq 2$$

$$3x + y \leq 4 \quad \text{Where } x \geq 0 \text{ \& } y \geq 0$$

12. Two tailors P and Q earn Rs.350 and Rs.450 per day respectively. Tailor P can stitch 6 shirts and 3 trousers while tailor Q can stitch 7 shirts and 3 trousers per day. How many days should each of them work, if it is desired to produce at least 51 shirts and 25 trousers at a minimum labour cost?

13. What are the characteristic of Operation Research.

14. What are the advantages & limitation of Operation Research.

15. Write note on Methodology of Operation Research.

16. Write Advantages, Assumption & Limitation of Linear Programming Problem.

17. Explain the concept of linearity in linear programming.

18. Explain what is ment by Decision variable, Objective function and Constraints in linear programming.

19. What are limitation of Linear programming.

20. What are the different types of constraints in linear programming.