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
53 Years of Streling Performance in Education

NOTICE

Date: 17/01/2026

This is to inform all SYBBI students that the internal assessment for the course Data Driven Decision Making in Banking and Insurance (40 marks) will be on the following criteria:

1. **Mandatory class test for 20 marks (already conducted in the month of January, 2026).**
2. **Problem solving exercise for 10 marks to be submitted on:**
    a) 3rd February, 2026 for division A in the G4 from 7:00 am to 8:40 am and
    b) 5th February, 2026 for division B in G5 from 7:00 am to 8:40 am.
3. **1 home assignment for 10 marks to be submitted during lecture timings only on:**
    a) 10th February, 2026 for division A and
    b) 12th February, 2026 for division B.
4. **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.
5. **Instructions problem solving exercise:**
    a) Students have to be present in person for the submission of their project work.
    b) Submission of projects to be done on A4 size ruled paper ONLY. **The entire project 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 project

d) A google link will be provided to the students to upload their entire project in due course.

6. 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	Ms. Subhashini Naikar	Prof.(Dr.) D.N Ganjewar
Coordinator	Vice Principal (SFC)	Principal
DI/N-STD/GEN/00		

SYBBI DDDM

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	58.33	**2,4,6,8,9,10,12,14,16**	9
2002	33.33	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2003	25	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2004	91.67	**5,7,10,15,20**	5
2005	25	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2006	91.67	**5,7,10,15,20**	5
2007	66.67	**1,3,13,14,16,18,19**	7
2008	100	**5,7,10,15,20**	5
2009	91.67	**5,7,10,15,20**	5
2010	58.33	**2,4,6,8,9,10,12,14,16**	9
2011	58.33	**2,4,6,8,9,10,12,14,16**	9
2012	58.33	**2,4,6,8,9,10,12,14,16**	9
2013	91.67	**5,7,10,15,20**	5
2014	91.67	**5,7,10,15,20**	5
2015	33.33	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2016	100	**5,7,10,15,20**	5
2017	91.67	**5,7,10,15,20**	5
2018	33.33	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2019	33.33	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2020	25	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2021	50	**1,3,5,7,9,11,12,13,15,17,19**	11
2022	50	**1,3,5,7,9,11,12,13,15,17,19**	11
2023	66.67	**1,3,13,14,16,18,19**	7
2024	75	**5,7,10,15,20**	5
2025	33.33	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2026	25	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2027	58.33	**2,4,6,8,9,10,12,14,16**	9
2028	25	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2029	25	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2030	41.67	**1,2,3,5,7,11,13,14,16,17,18,19,20**	13
2031	66.67	**1,3,13,14,16,18,19**	7
2032	41.67	**1,2,3,5,7,11,13,14,16,17,18,19,20**	13
2033	66.67	**1,3,13,14,16,18,19**	7
2034	58.33	**2,4,6,8,9,10,12,14,16**	9
2035	50	**1,3,5,7,9,11,12,13,15,17,19**	11

2036	50	**1,3,5,7,9,11,12,13,15,17,19**	11
2037	50	**1,3,5,7,9,11,12,13,15,17,19**	11
2038	75	**5,7,10,15,20**	5
2039	25	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2040	75	**5,7,10,15,20**	5
2041	58.33	**2,4,6,8,9,10,12,14,16**	9
2042	66.67	**1,3,13,14,16,18,19**	7
2043	50	**1,3,5,7,9,11,12,13,15,17,19**	11
2044	16.67	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2045	75	**5,7,10,15,20**	5
2046	75	**5,7,10,15,20**	5
2047	75	**5,7,10,15,20**	5
2048	83.33	**5,7,10,15,20**	5
2049	75	**5,7,10,15,20**	5
2050	75	**5,7,10,15,20**	5
2051	83.33	**5,7,10,15,20**	5
2052	100	**5,7,10,15,20**	5
2053	91.67	**5,7,10,15,20**	5
2054	83.33	**5,7,10,15,20**	5
2055	91.67	**5,7,10,15,20**	5
2056	66.67	**1,3,13,14,16,18,19**	7
2057	100	**5,7,10,15,20**	5
2058	41.67	**1,2,3,5,7,11,13,14,16,17,18,19,20**	13
2059	16.67	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2060	100	**5,7,10,15,20**	5

SYBBI B

ROLL NUMBER	**ATTENDANCE PERCENTAGE**	**SUM NUMBER TO BE SOLVED**	**Total Number of sums**
2061	0	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2062	78.57	**5,7,10,15,20**	5
2063	57.14	**2,4,6,8,9,10,12,14,16**	9
2064	92.86	**5,7,10,15,20**	5
2065	14.29	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2066	71.43	**1,3,13,14,16,18,19**	7
2067	0	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2068	78.57	**5,7,10,15,20**	5
2069	85.71	**5,7,10,15,20**	5
2070	92.86	**5,7,10,15,20**	5
2071	7.14	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2072	85.71	**5,7,10,15,20**	5
2073	35.71	**1,2,3,5,7,11,13,14,16,17,18,19,20**	13
2074	42.86	**1,2,3,5,7,11,13,14,16,17,18,19,20**	13
2075	64.29	**2,4,6,8,9,10,12,14,16**	9

2076	92.86	**5,7,10,15,20**	5
2077	85.71	**5,7,10,15,20**	5
2078	50	**1,3,5,7,9,11,12,13,15,17,19**	11
2079	71.43	**1,3,13,14,16,18,19**	7
2080	0	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2081	78.57	**5,7,10,15,20**	5
2082	71.43	**1,3,13,14,16,18,19**	7
2083	28.57	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2084	71.43	**1,3,13,14,16,18,19**	7
2085	64.29	**2,4,6,8,9,10,12,14,16**	9
2086	92.86	**5,7,10,15,20**	5
2087	50	**1,3,5,7,9,11,12,13,15,17,19**	11
2088	85.71	**5,7,10,15,20**	5
2089	64.29	**2,4,6,8,9,10,12,14,16**	9
2090	42.86	**1,2,3,5,7,11,13,14,16,17,18,19,20**	13
2091	78.57	**5,7,10,15,20**	5
2092	64.29	**2,4,6,8,9,10,12,14,16**	9
2093	50	**1,3,5,7,9,11,12,13,15,17,19**	11
2094	0	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2095	0	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2096	0	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2097	21.43	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2098	0	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2099	92.86	**5,7,10,15,20**	5
2100	64.29	**2,4,6,8,9,10,12,14,16**	9
2101	85.71	**5,7,10,15,20**	5
2102	28.57	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2103	71.43	**1,3,13,14,16,18,19**	7
2104	71.43	**1,3,13,14,16,18,19**	7
2105	71.43	**1,3,13,14,16,18,19**	7
2106	28.57	**2,4,5,7,9,10,11,12,13,14,15,16,17,18,19**	15
2107	71.43	**1,3,13,14,16,18,19**	7
2108	7.14	**1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20**	20
2109	42.86	**1,2,3,5,7,11,13,14,16,17,18,19,20**	13

Home assignment sums:

1. Find the mean respiration rate per minute and its standard deviation when in 4 cases the rate was found to be 16,13,17 and 22.

2. Find the standard deviation for the following distribution:

X	7	8	9	10	11
F	5	10	20	10	5

3. Calculate the standard deviation for the following data:

C I	0-10	10-20	20-30	30-40	40-50
F	11	15	25	12	7

4. Calculate arithmetic mean for the following data:

CI	10-20	20-30	30-40	40-50	50-60	60-70	70-80
F	8	15	13	10	7	4	3

5. Calculate Median for the following data:

CI	10-20	20-30	30-40	40-50	50-60	60-70	70-80
F	8	15	13	10	7	4	3

6. Calculate Mode for the following data:

CI	10-20	20-30	30-40	40-50	50-60	60-70	70-80
F	8	15	13	10	7	4	3

7. Calculate Karl Pearson's coefficient of correlation for the following:

X	101	108	105	107	109
Y	117	98	102	115	108

8. Calculate Karl Pearson's coefficient of correlation for the following:

X	30	40	40	55	60
Y	50	60	65	80	85

9. Calculate Karl Pearson's coefficient of correlation for the following:

X	15	18	20	19	22
Y	10	10	11	12	12

10. Find rank correlation coefficient:

X	40	45	65	60	50	55
Y	90	70	80	50	60	75

11. Find rank correlation coefficient:

X	52	34	47	65	43	34	54
Y	65	59	65	68	82	60	57

12. Find rank correlation coefficient:

X	101	113	83	109	101	97	83	95	90	117
Y	53	59	52	57	59	50	54	58	59	61

13. From the following data find the regression equation y on x & hence estimate y when x = 13.

X	14	10	15	11	9	12	6
Y	8	6	4	3	7	5	9

14. From the following data find the regression equation y on x & hence estimate x when y = 10.

X	14	10	15	11	9	12	6
Y	8	6	4	3	7	5	9

15. For a bivariate distribution, the following results are obtained:
Mean value of x = 65, Mean value of y = 53
Standard deviation of x = 4.7, Standard deviation of y = 5.2
Correlation coefficient, r = 0.78
Find the regression equation y on x and hence obtain
The most probably value of y when x = 63

16. For a bivariate distribution, the following results are obtained:
Mean value of x = 65, Mean value of y = 53
Standard deviation of x = 4.7, Standard deviation of y = 5.2
Correlation coefficient, r = 0.78
Find the regression equation x on y and hence obtain
The most probably value of x when y = 50

17. The two regression lines are x + 2y = 5 and 2x + 3y = 8
Find
1. Mean values of X and Y
2. Coefficient of correlation
3. $\sigma_y^2 = 12$ find σ_x

18. Two fair dice are tossed, find the probability that the sum of the numbers on the uppermost faces of the dice is (i) an even number, (ii) a prime number, (iii) is multiple of 4, (iv) is divisible by 5.

19. If the letter of the word RANDOM be arranged at random, what is the probability that two letter A and O will be at extreme.

20. A committee of 2 persons is to be selected from 10 persons of which there are 3 lawyers, 4 teachers and 3 doctors. Find the probability that (i) there is 1 lawyer and 1 teacher (ii) 1 teacher and 1 doctor (iii) 1 lawyer and 1 doctor (iv) both lawyers (v) both teachers.

PROBLEM SOLVING EXERCISE:

Note: All sums to be sovle.

1. If the letters of the words “FATHER” are arranged at random, what is the probability that
   i) the two letters A and R will be at the either extremes.
   ii) begins with letter “R”.
   iii) ends with letter “A”.
   iv) begins with letter “A” and ends with letter “R”.
2. There are 3 doctors, 4 engineers, 2 statisticians and 1 economist. A committee of 4 from among them is to be formed. Find the probability that the committee consist of (i) one of each kind, (ii) atleast one doctor, (iii) economist as a member and 3 others.
3. The averages of rainfall and yield of a crop are 42.7 cms and 850 kgs respectively. The corresponding standard deviations are 3.2 cms and 14.1 kgs. The coefficient of correlation is 0.65. Estimate the yield when the rainfall is 39.2 cms.
4. Calculate Karl Pearson’s coefficient of correlation for the following:

X	90	70	80	50	60	70
Y	45	40	45	65	60	50

5. Find mode for the given data:

CI	0-10	10-20	20-30	30-40	40-50	50-60
F	10	15	12	16	10	11