



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 Sterling Performance in Education

NOTICE

Date: 17/01/2026

This is to inform all FYBBI students that the internal assessment for the course Financial Mathematics- II (20 marks) will be on the following criteria:

1. **Mandatory class test for 10 marks (already conducted in the month of January, 2026).**
2. **1 home assignment for 05 marks to be submitted on:**
 - a) 4th February, 2026 for division A and
 - b) 7th February, 2026 for division B.
3. **Viva voce on the home assignment. Viva voce carries 5 marks.**
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.
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
Coordinator
DI/N-STD/GEN/00

Ms. Subhashini Naikar
Vice Principal (SFC)

Prof. (Dr.) D.N. Ganjewar

Principal

NOTE:

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

FYBBI A Div

ROLL NUMBER	ATTENDANCE PERCENTAGE	SUM NUMBER TO BE SOLVED	Total Number of sums
1001	16.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1002	100	5,7,10,15,20	5
1003	83.33	5,7,10,15,20	5
1004	50	1,3,5,7,9,11,12,13,15,17,19	11
1005	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1006	100	5,7,10,15,20	5
1007	83.33	5,7,10,15,20	5
1008	83.33	5,7,10,15,20	5
1009	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1010	83.33	5,7,10,15,20	5
1011	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1012	83.33	5,7,10,15,20	5
1013	50	1,3,5,7,9,11,12,13,15,17,19	11
1014	100	5,7,10,15,20	5
1015	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1016	100	5,7,10,15,20	5
1017	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1018	50	1,3,5,7,9,11,12,13,15,17,19	11
1019	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1020	83.33	5,7,10,15,20	5
1021	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1022	83.33	5,7,10,15,20	5
1023	50	1,3,5,7,9,11,12,13,15,17,19	11
1024	16.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1025	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1026	83.33	5,7,10,15,20	5
1027	66.67	1,3,13,14,16,18,19	7
1028	83.33	5,7,10,15,20	5
1029	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1030	100	5,7,10,15,20	5
1031	50	1,3,5,7,9,11,12,13,15,17,19	11

1032	66.67	1,3,13,14,16,18,19	7
1033	100	5,7,10,15,20	5
1034	83.33	5,7,10,15,20	5
1035	50	1,3,5,7,9,11,12,13,15,17,19	11
1036	83.33	5,7,10,15,20	5
1037	50	1,3,5,7,9,11,12,13,15,17,19	11
1038	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1039	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1040	100	5,7,10,15,20	5
1041	83.33	5,7,10,15,20	5
1042	83.33	5,7,10,15,20	5
1043	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1044	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1045	100	5,7,10,15,20	5
1046	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1047	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1048	50	1,3,5,7,9,11,12,13,15,17,19	11
1049	100	5,7,10,15,20	5
1050	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1051	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1052	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1053	83.33	5,7,10,15,20	5
1054	66.67	1,3,13,14,16,18,19	7
1055	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1056	50	1,3,5,7,9,11,12,13,15,17,19	11
1057	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1058	100	5,7,10,15,20	5
1059	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1060	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20

FYBBI B Div

ROLL NUMBER	ATTENDANCE PERCENTAGE	SUM NUMBER TO BE SOLVED	Total Number of sums
1061	83.33	5,7,10,15,20	5
1062	83.33	5,7,10,15,20	5
1063	16.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1064	83.33	5,7,10,15,20	5
1065	83.33	5,7,10,15,20	5
1066	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1067	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1068	50	1,3,5,7,9,11,12,13,15,17,19	11
1069	83.33	5,7,10,15,20	5
1070	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1071	83.33	5,7,10,15,20	5
1072	50	1,3,5,7,9,11,12,13,15,17,19	11
1073	16.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1074	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1075	50	1,3,5,7,9,11,12,13,15,17,19	11
1076	83.33	5,7,10,15,20	5
1077	66.67	1,3,13,14,16,18,19	7
1078	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1079	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1080	50	1,3,5,7,9,11,12,13,15,17,19	11
1081	50	1,3,5,7,9,11,12,13,15,17,19	11
1082	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1083	66.67	1,3,13,14,16,18,19	7
1084	83.33	5,7,10,15,20	5
1085	100	5,7,10,15,20	5
1086	83.33	5,7,10,15,20	5
1087	16.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1088	66.67	1,3,13,14,16,18,19	7
1089	100	5,7,10,15,20	5
1090	50	1,3,5,7,9,11,12,13,15,17,19	11
1091	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1092	100	5,7,10,15,20	5
1093	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1094	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1095	66.67	1,3,13,14,16,18,19	7
1096	66.67	1,3,13,14,16,18,19	7
1097	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1098	50	1,3,5,7,9,11,12,13,15,17,19	11
1099	50	1,3,5,7,9,11,12,13,15,17,19	11
1100	50	1,3,5,7,9,11,12,13,15,17,19	11
1101	66.67	1,3,13,14,16,18,19	7
1102	83.33	5,7,10,15,20	5
1103	66.67	1,3,13,14,16,18,19	7

1104	50	1,3,5,7,9,11,12,13,15,17,19	11
1105	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1106	100	5,7,10,15,20	5
1107	66.67	1,3,13,14,16,18,19	7
1108	16.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1109	50	1,3,5,7,9,11,12,13,15,17,19	11
1110	33.33	2,4,5,7,9,10,11,12,13,14,15,16,17,18,19	15
1111	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1112	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1113	0	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20
1114	66.67	1,3,13,14,16,18,19	7
1115	66.67	1,3,13,14,16,18,19	7
1116	50	1,3,5,7,9,11,12,13,15,17,19	11
1117	66.67	1,3,13,14,16,18,19	7
1118	83.33	5,7,10,15,20	5
1119	83.33	5,7,10,15,20	5
1120	16.67	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	20

1. From the following data calculate (i) I_L (ii) I_P (iii) I_F (iv) I_{DB} (v) I_{ME}

Commodity	Base year		Current year	
	Price(p_0)	Quantity(q_0)	Price(p_1)	Quantity(q_1)
A	2	20	3	30
B	4	15	5	20
C	3	40	6	50

2. From the following data calculate (i) I_L (ii) I_P (iii) I_F (iv) I_{DB} (v) I_{ME}

Commodity	Base year		Current year	
	Price(p_0)	Quantity(q_0)	Price(p_1)	Quantity(q_1)
A	2	40	6	60
B	4	15	5	30
C	3	30	6	50

3. Calculate cost of living index number for the following data.

Group	Weight(w)	Index number(I)
Food	48	160
Fuel and lighting	7	120
Clothing	10	140
House rent	10	100
Miscellaneous	15	80

4. Calculate cost of living index number for the following data.

Group	Index number(I)	Weight(w)
Food	221	35
Clothing	198	14
Fuel and lighting	190	15
House rent	183	8
Miscellaneous	161	20

5. Calculate cost of living index number for the following data.

Commodity	Quantity(q_0)	Unit	Price 2000(p_0)	Price 2006(p_1)
Rice	10	Kg	12	18
Wheat	15	Kg	9	15
Milk	5	Kg	18	24
Sugar	6	Kg	15	24
Pulse	8	Kg	30	36
Oil	4	Kg	48	72

6. Calculate cost of living index number for the following data.

Group	Price in 1999	Price in 2004	Weight
Food	5	12	60
Clothing	16	30	5
Fuel and lighting	10	25	10
House rent	20	60	15
Miscellaneous	18	36	10

7. Find chain base index number for the given data

	Average sales (in thousand)			
Commodity	2002	2003	2004	2005
A	35	39	42	45
B	38	45	52	60
C	42	51	56	65

8. Find chain base index number.

	Average sales (in thousand)			
Commodity	2003	2004	2005	2006
P	46	54	57	62
Q	23	25	30	32
R	18	22	25	28

9. Calculate index number using i) aggregative method ii) Average of price relative method

Items	Price	
	Base year(p_0)	Current year(p_1)
A	4	5
B	12	16
C	6	9
D	30	40
E	8	11

10. Fit straight line trend by least square method. Also plot graph.

Years	1999	2000	2001	2002	2003	2004	2005
Production	14	15	17	16	17	20	23

11. Find 3 yearly moving average of given time series. Also plot graph.

Years	1999	2000	2001	2002	2003	2004	2005
Production	14	15	17	16	17	20	23

12. Find 4 yearly moving average of given time series. Also plot graph.

Years	1999	2000	2001	2002	2003	2004	2005
Production	14	15	17	16	17	20	23

13. Find 5 yearly moving average of given time series. Also plot graph.

Years	1999	2000	2001	2002	2003	2004	2005
Production	14	15	17	16	17	20	23

14. Fit straight line trend by least square method. Also plot graph.

Years	1998	1999	2000	2001	2002	2003	2004	2005
Production	31	33	30	34	38	40	45	49

15. Find 3 yearly moving average of given time series. Also plot graph.

Years	1998	1999	2000	2001	2002	2003	2004	2005
Production	31	33	30	34	38	40	45	49

16. Find 4 yearly moving average of given time series. Also plot graph.

Years	1998	1999	2000	2001	2002	2003	2004	2005
Production	31	33	30	34	38	40	45	49

17. Find 5 yearly moving average of given time series. Also plot graph.

Years	1998	1999	2000	2001	2002	2003	2004	2005
Production	31	33	30	34	38	40	45	49

18. Find the seasonal component of the time series using method of seasonal indices

Year	Season	I	II	III	IV
2003		33	37	32	31
2004		35	40	36	35
2005		34	38	34	32
2006		36	41	35	36
2007		34	39	35	32

19. Fit straight line trend by least square method. Also plot graph.

Year	2000	2001	2002	2003
Index number	100	118	135	150

20. Fit straight line trend by least square method. Also plot graph.

Year	1986	1987	1988	1989	1990	1991	1992
Index number	110	130	150	175	180	200	210