

First Year Engineering: Semester-I: Dec 2018

• Tel. : 022-4232 1140 • WhatsApp : 7045 018 539



Subject Name	Mumbai University Examination Scheme					
Applied Mathematics-I	Theory Marks		Term Work (Marks)	Practical Exam (Marks)	Oral Exam (Marks)	Total (Marks)
	Average of Internal Assessment	End Sem. Exam				
	20	80	25	-	25	150

Study Material (that will be distributed to the Students)			
Notes (in Question & Answer format with Solved Examples)	Graded Questions (GQ)	Past Exam Questions (EQ)	Past Exam Paper Solutions (EQ Solutions)

Week	Module Details		Approximate Weightage (Marks)	Topic for Test @ Vidyalankar
	No.	Topics Name		
1	2.2	Successive Differentiation	10	
2	2.2	Successive Differentiation		
	3	1.2	Complex Number	21
1.1		Complex Number		
4	1.3	Complex Number	Successive Differentiation	
5	1.3	Complex Number		
	2.1	Complex Number	8	
6	4.1	Partial Differentiation	21	
7	4.1	Partial Differentiation		Complex Number (Hyperbolic & Log. Function)
8	4.2	Partial Differentiation		
9	5.1	Application of Partial Differentiation	11	Partial Derivatives & Euler's Theorem
10	3.1	Matrices	21	
11	3.1	Matrices		
12	3.1	Matrices		Matrices -I
	6.3	System of Linear Equations	20	
13	6.2	NM		Matrices -II
	5.2	Expansion	8	
14	5.2	Expansion		
	6.1	Limits		

Note:

- ❖ Test will be conducted on each Topic after the Topic gets over.
- ❖ Model Solution will be distributed immediately after the exam.
- ❖ Needless to say, attendance for these Unit Tests is Mandatory.
- ❖ Tests will be supervised by the Subject Faculty.
- ❖ Extra Lecture(s) will be engaged (if required) and will be decided in consultation with the students.

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Subject Name	Mumbai University Examination Scheme					
Engineering Mechanics	Theory Marks		Term Work (Marks)	Practical Exam (Marks)	Oral Exam (Marks)	Total (Marks)
	Average of Internal Assessment	End Sem. Exam				
	20	80	25	-	25	150

Study Material (that will be distributed to the Students)			
Notes (in Question & Answer format with Solved Examples)	Graded Questions (GQ)	Past Exam Questions (EQ)	Past Exam Paper Solutions (EQ Solutions)

Week	Module Details		Approximate Weightage (Marks)	Topic for Test@ vidyalankar
	No.	Topic Name		
1	1.2	Centroid	8	
2	1.1	System of Coplanar Forces	6-10	Centroid
3	1.1	System of Coplanar Forces		
4	2.1	Equilibrium of System of Coplanar Forces	12-16	
5	2.2	Types of Support	8	
	3.2	Friction	12	Resultant of Coplanar Forces
6	3.2	Friction		
	3.3	Principle of Virtual Work	4 - 6	Equilibrium & Support Reaction
7	2.3	Analysis of Plane Trusses	8	
8	4.1	Kinematics of Particles	10-20	
9	4.1	Kinematics of Particles		Friction
10	4.1	Kinematics of Particles		
11	5.1	Kinematics of Rigid Bodies	12	Rectilinear Motion
12	6.1	K-I (Force & Acceleration)	4 - 8	
13	6.2	K-II (Work & Energy)	6	
14	6.3	K-III (Impulse & Momentum)	6	
15	3.1	Forces in Space	10	

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Subject Name	Mumbai University Examination Scheme					
Basic Electrical Engineering	Theory Marks		Term Work (Marks)	Practical Exam (Marks)	Oral Exam (Marks)	Total (Marks)
	Average of Internal Assessment	End Sem. Exam				
	20	80	25	-	25	150

Study Material (that will be distributed to the Students)

Notes (in Question & Answer format with Solved Examples)	Graded Questions (GQ)	Past Exam Questions (EQ)	Past Exam Paper Solutions (EQ Solutions)
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Week	Module Details		Approximate Weightage (Marks)	Topic for Test @Vidyalankar
	No.	Topics Name		
1	1	D C Circuits	34	
2	1	D C Circuits		
3	1	D C Circuits		Mesh Analysis and Nodal Analysis
4	1	D C Circuits		
5	1	D C Circuits		Star Delta & Source Transformation
6	2	A C Circuits	34	
7	2	A C Circuits		Superposition Theorem
8	2	A C Circuits		
9	2	A C Circuits		Thevenin's, Norton & Maximum Power Transfer Theorem
10	2	A C Circuits		
11	3	Three Phase Circuits	20	A C Series & Parallel without Resonance
12	3	Three Phase Circuits		
13	4	Single Phase Transformer	24	A C Series & Parallel with Resonance
14	4	Single Phase Transformer		
14	5	D C Machines		8

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