



AK ENGINEERING ACADEMY

MPSC Civil Engineering Mains

Previous Year Paper Analysis
(2013,15,17,18,19)

Paper I

1. Building Construction Materials (BCM)

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Concrete, lime mortar, Aggregate	2	3	5	5	5
2	Steel	1				1
3	Timber			1		
4	Paint, Varnish distemper, Plaster	1	1		1	
5	Building bye laws		2	2	2	
6	Brick & Brick Masonry	2		1		1
7	Stone & Stone Masonry		1	1	1	1
8	Foundation	2	1	1	1	1
9	Staircase					
10	Door & Windows	1	1		1	
11	Roof	2				
12	Ventilation			1		
13	Scaffolding					
14	Acoustics	1	1		1	
15	Fire Safety					2
16	Miscellaneous (form work, cavity wallek)	4	2			1
		16	12	12	12	12

2. Strength of Materials (SOM)

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Simple Stress Strain	5	3	3	1	3
2	Principle stress strain	2		2	2	1
3	Shear force & Bending Moment	1			2	2
4	Stresses in Beams	1	3		1	1
5	Columns	1	1	3		2
6	Torsion	1	2	3	2	
7	Slope & deflection	2	2		2	3
8	Strain Energy	1			1	
		14	11	11	11	12

3. THEORY OF STRUCTURE (TOS)

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Determinacy & Indeterminacy	1	3	3	1	2
2	Trusses	1	1	8	2	1
3	Moment Distribution md	2	2	1	6	1
4	Flexibility & Stiffness matrix	2	3		5	3
5	Arches & Cables	4	1	2	2	4
6	Influence line Diagram	2	2	1	2	4
7	Slope deflection md	1	9	1		
8	fixed & continuous beam & Analysis	1	1	6	4	7
		14	22	22	22	22

4. Reinforcement Cement Concrete (RCC)

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Basis Concept of RCC				1	
2	Analysis of beam	2	3	3	1	1
3	shear & Bond stress	1	1	1		1
4	slab	2	1	3	6	2
5	Column	1	1		2	2
6	Footing	2		1	1	
7	Staircase	2	1	1		3
8	Retaining wall	2	2	2		2
9	Building frame		1		1	
10	Water tank	2	1			
		14	11	11	12	11

5. PRESTRESS (PSC)

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Introduction	4	2	2	2	4
2	Analysis of prestress		5	4	2	4
3	Losses in prestress	3	3	2	1	2
4	Design of prestress & deflection of prestress	7	1	3	5	1
5		14	11	11	10	11

6. STEEL STRUCTURE

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Introduction	2	2		2	
2	Bolted Connection	1	1	1	2	
3	Welded Connection	1	2	1	2	3
5	Tension Member	1				
6	Compression member	1	2	3	2	1
7	Column baus & column splises	3	1	1	1	3
8	Beams				1	
9	Plate girder & gantry girder	1	2	2	1	1
10	Roof truss	2	1	1		3
11	Plastic	1		1		
		14	11	11	11	11

7. CPM & PERT

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Project Management	5	2	2	3	
2	Fundamentals of network			2	2	
3	PERT & CPM	2	1	1	4	2
4	Material Management			2		1
5	Safety Engineering & acts	1	2	1	1	1
6	Crashing of network	2		1		
7	Construction equipment	3	2	1		3
8	Site layout	1	1	1	1	1
9	Quality Control		2			2
10	Contracts & Economy		1			1
		14	11	11	11	11

8. Numerical Integration

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Numerical Integration	0	11	11	11	11



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Prestressed	22	Rakesh Sir	Rs.1000
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