



AK ENGINEERING **ACADEMY**

MPSC Civil Engineering Mains

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

Paper II

1. ESTIMATION & COSTING

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Specification, estimate types	3	2	7	4	4
2	Tenders & contracts	2	2	-	3	-
3	Rate Analysis	2	2	-	3	-
4	Valuation	2	3	2	-	3

2. SURVEYING

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Linear Measurement & chain survey	1	1	1	-	2
2	Compass Surveying	2	1	2	-	-
3	Theodolite survey	-	2	1	1	-
4	Traverse survey & Omitted Measurement	1	-	-	1	-
5	Leveling	1	3	1	3	3
6	Curves	2	-	1	1	1
7	Tachometry, triangulation	1	-	2	1	1
8	Plane table survey	1	1	-	1	-
9	Instruments	1	1	1	-	-
10	Hydrographic Survey	1	-	-	-	-

Paper II

Sr.No	Topic Name	2013	2015	2017	2018	2019
11	GPS + GIS	1	-	-	-	-
12	Contour	1	1	1	2	2
13	Photogrammetry	-	-	-	-	1
		13	10	10	10	10

3. SOIL MECHANICS (GEOTECH)

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Origin of Soil	-	-	-	-	-
2	Properties of Soil	1	2	-	1	-
3	Index Properties of Soil	1				
4	Soil Classification	-	-	-	-	-
5	Permeability	-	-	-	-	-
6	Seepage Pressure & Seepage analysis	-	-	-	-	-
7	Stress Distribution	-	3	-	-	2
8	Compaction	2	-	1	3	2
9	Consolidation	1	1	1	2	-
10	shear strength	1	1	1	-	1
11	Earth Pressure	2	1	1	-	1
12	Stability of slopes	2	-	1	1	1
13	Shallow Foundation	1	-	4	-	1
14	Deep Foundation	-	-	-	1	1
15	Soil exploration	-	-	-	-	1
16	Cofferdam	1	1	-	1	-

4. FLUID MECHANICS

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Properties of Fluid	2	-	4	1	-
2	Fluid Static	1	1	1	-	-
3	Buoyancy floatation	-	-	1	1	1
4	Fluid Kinematics	1	1	1	1	1
5	Fluid dynamics, weir & Notch	4	2	-	1	2
6	Flow Through Pipes	-	1	-	1	1
7	Turbulent flow	-	-	-	-	-
8	Boundary layer theory	1	1	-	-	-
9	force on submersed body	-	-	-	-	-
10	Dimensional analysis	-	1	1	-	3
11	Open Channel flow	-	-	-	2	-
		9	7	8	8	9

5. HYDRACLIC MACHINES

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Hydroelectric Plant & Pelton Wheel	-	2	1	2	1
2	Turbine	-	5	4	4	1
3	Pumps	1	4	4	3	7
		1	11	9	9	9

6. HYDROLOGY

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Precipitation	2	4	-	1	3
2	Evaporation & transpiration	-	3	-	1	3
3	Infiltration	-	1	-	1	1
4	Runoff	-	1	-	1	1
5	Hydrograph	2	-	-	1	1
6	Maximum flood estimate	2	-	-	-	1
7	Well Hydraulics	4	-	6	2	-
8	Flood Routing & River Gauging	-	-	-	-	-
		12	9	9	9	9

7. IRRIGATION

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Water requirement of crops	-	-	-	2	2
2	Methods of irrigation	-	-	-	1	-
3	Dams	4	-	4	1	3
4	Spillway & energy dissipaters	4	3	3	2	1
5	Canal, Canal regulation & Diversion Headwork	1	2	1	-	-
6	Canal design	1	-	-	2	2
7	Cross drainage work	1	2	-	-	-
8	Canal Outlet	-	2	-	-	-

Paper II

9	Energy Dissipators	-	-	-	-	-
10	River Engineering	2	-	-	-	1
11	Water logging	-	-	1	-	-
12	Quality of Irrigation water & soils					
		13	9	9	8	9

8. BRIDGE ENGINEERING

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Components of Bridge & Terminology	4	5	3	6	5
2	Type of Bridge	2	1	1	-	-
3	Foundation Substructure & Superstructure	1	-	-	-	-
4	Loading on Bridges	1	2	5	3	3
5	Strengthening Of Bridges	1	-	-	-	1
		9	8	9	9	9

9. TUNNEL ENGINEERING

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Introduction	-	3	2	3	2
2	Methods of Tunneling, tunneling Hard rocks, Construction of tunnel	-	4	4	5	4
3	hauling of muck, lining of tunnel, ventilation & drainage	-	2	3	1	3
		0	9	9	9	9

10. HIGHWAY ENGINEERING

Sr.No	Topic Name	2013	2015	2017	2018	2019
1	Highway development & Planning	1	-	4	1	-
2	Geometric design	5	-	4	3	3
3	Traffic Engineering	2	-	-	3	1
4	Highway Material	2	2	-	1	4
5	Pavement Design	2	7	1	1	1
		12	9	9	9	9

11. ENVIRONMENTAL ENGINEERING

Sr.No	Topic Name	2013	2015	2017	2018	2019
A	Water Supply	-	3	2	3	2
1	Population forecasting & Water demands	-	-	1	-	-
2	Quality of Water	-	-	2	-	1
3	Plain sedimentation	-	-	-	1	-
4	Coagulation	1	-	-	-	1
5	Filtration	-	-	-	1	-
6	Disinfection	-	-	-	-	-
7	Miscellaneous water treatment	-	1	-	1	1
8	Distribution system	1	-	1	1	-

Paper II

Sr.No	Topic Name	2013	2015	2017	2018	2019
B	Waste Water					
1	Introduction, Design of sewer & characteristics of sewer, appetences	1	1	2	2	1
2	Treatment of sewer	1	-	1	2	2
3	Activated sludge process	-	2	2	-	-
4	Trickling Filter	-	-	-	-	-
5	Sludge Digestion	1	-	-	-	-
6	Septic Tank	-	-	-	-	-
7	Oxidation Tank	-	-	-	-	1
8	Disposal of Sewage effects	1	-	-	-	-
9	Solid water Management	3	1	-	-	-
10	Air Pollution	1	3	-	-	1
11	Nosie Pollution	-	1	-	-	-
		10	9	9	9	9

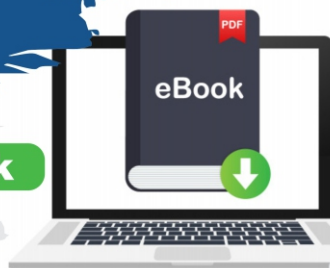
PRACTICE QUESTION SET

MPSC Civil Engineering Prelims

1500+ MCQs
(With Ans Key)

eBook

Just in
Rs. **99/-**



Subject Wise MCQs:

- Engineering Mechanics : 300
- Engineering Mathematics : 300
- Basic Mechanical Engineering : 500
- Basic Civil Engineering : 200
- Basic Electrical Engineering : 200



AK ENGINEERING ACADEMY



Download **AK Engineering Academy** App from Play store

9067051404 | 7035812323