



ARIHANT ENGINEERING ACADEMY

OSSC-JE

(ODISHA STAFF SELECTION COMMISSION
-JUNIOR ENGINEER)

ONLINE TEST SERIES

CIVIL ENGINEERING - SCHEDULE

No. of Test:- 30	
Subject Wise Mock Test	13
Mixed Subject Mock Test	07
Full Length Test	10

- All tests will be activating as per the date and valid up to the exam.

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www.arihantexams.in

OSSC – JE SYLLABUS

CIVIL ENGINEERING SYLLABUS

1. Hydraulics

Hydrostatics, Kinematics of fluid flow, pumps

2. Survey

Introduction to surveying, Linear measurements, chaining, chain surveying, angular measurement, chain and compass surveying, computation of area, plane table surveying, leveling, contouring, principles of theodolite surveying, theodolite transversing , tacheometry curves, setting out works, modern surveying method.

3. Civil Engineering materials

Stone, Bricks, clay product and refractory materials, cement, sand gravel, morrum and fly ash, mortar and concrete, timber, paint, varnish and distemper, iron and steel, bituminous materials, plastics, heat proofing and acoustic materials.

4. Construction Technology

Introduction to construction technology, site investigation, foundations, walls, damp proofing, arches and lintels, doors and windows, floors roads, stairs, surface finishes, general idea of seismic planning and design of building construction machineries.

5. Structural Analysis

Trusses and frames, slope and deflection, fixed beam, continuous beam, slope deflection method, moment distribution method, three hinged arches.

6. Transportation Engineering

Introduction to transportation engineering, road geometric, road materials, road pavements, hill roads, road drainage, road maintenance, construction equipments, traffic studies, landscaping and arboriculture, introduction to railways transporting, permanent way, track materials, geometric for board gauge, points and crossings, laying and maintenance of track, introduction to bridges, bridge site investigation, hydrology and planning bridge foundation, bridge substructure and approaches, permanent bridges, culvert and cause ways, introduction to docks and harbours, break waters, docks, introduction to airport engineering, components of an airport, tunnel engineering.

7. Irrigation Engineering

Introduction to irrigation engineering, hydrology, water requirement of crops, flow irrigation, diversion head works, regulatory works, cross drainage works, dams, water logging and drainage, ground water hydrology.

8. Estimating

Introduction to estimating detailed estimate of building as per PWD specification/ standards, analysis of rates, administrative setups of engineering organizations, detailed estimate of culverts and bridges, estimate of irrigation structures, detailed estimate of roads, PWD accounts works.

9. Structural Design

Introduction to design and detailing, working stress method of design, limit state method of design, limit state of collapse of singly reinforced members in bending limit state of collapse in shear (Design of shear by I.SM), bond anchorage, development lengths and slicing (LSM), beams (LSM) two way slabs, axially loaded short columns, ductile detailing or reinforced concrete structures subjected to seismic forces, Design of steel and timber structures (limit state), structural steel fasteners and connection, design of tension members, design of compression members, design of column bases and foundations, design of steel beams, design of timber structure, stair case (RCC – LSM), design of footings (RCC – LSM).

10. Public Health Engineering

Introduction to water supply engineering, quantity of water, sources of water, conveyance of water, quality of water and treatment of water, distribution system, appurtenance in distribution system, water supply plumbing in building, introduction to sanitary engineering, quantity of sewage, sewage system, sewer appurtenance, sewage characteristics, sewage disposal, sewage treatment, sanitary plumbing for building and rural water supply sanitation.

11. Construction Management

Introduction to construction management, construction planning, materials management, site management, construction organization, labour management, equipment management, quality control, monitoring progress and safety management in construction works.

12. Advanced Construction Technology

Concrete mixed design, handling and transporting of concrete, earthquake resistance construction, building services, construction and earth moving equipments.

OSSC – JE Online Test Series

Test Packages

S. No	Test series Title	Stream	Total Test	Price
1	OSSC – JE Prelims Online Test Series	CE	24	1000/-

Test Details

S. No	Test Name	Test Type	Subject/ Syllabus	Tests	Questions	Marks	Duration	Total Tests	Total Questions
1		Subject wise	Full Syllabus	12	60	60	60 Minutes		

	OSSC – JE Online Test Series	Tests						24	1920
2		Mixed Subjects Test	Full Syllabus	5	100	100	90 Minutes		
3		Full Length Mock Tests	Full Syllabus	7	100	100	90 Minutes		

Test Schedule

CE

OSSC – JE 2021 – 22 Prelims Online Test Series Schedule

Civil Engineering

Test No./Name	Start Date	End Date	Subjects/ Topic Covered	No. of Questions	Total Marks	Total Time	Minus Marks
Subject wise Test – 01 FM & HM	03.12.2021	Till OSSC – JE 2022 Prelims Exam	FM & HM	60	60	60	$\frac{1}{4}$ Marks
Subject Wise Test – 02 Survey	06.12.2021	Till OSSC – JE 2022 Prelims Exam	Survey	60	60	60	$\frac{1}{4}$ Marks
Subject wise test – 03 Building Material	10.12.2021	Till OSSC – JE 2022 Prelims Exam	Building material	60	60	60	$\frac{1}{4}$ Marks
Subject wise test – 04 Construction Technology	13.12.2021	Till OSSC – JE 2022 Prelims Exam	Construction Technology	60	60	60	$\frac{1}{4}$ Marks
Subject wise test – 05 Structural Analysis	17.12.2021	Till OSSC – JE 2022 Prelims Exam	Structural Analysis	60	60	60	$\frac{1}{4}$ Marks
Subject wise test – 06 Transport Engineering	20.12.2021	Till OSSC – JE 2022 Prelims Exam	Transport Engineering	60	60	60	$\frac{1}{4}$ Marks
Subject wise test – 07 Irrigation & Hydrology	24.12.2021	Till OSSC – JE 2022 Prelims Exam	Irrigation & Hydrology	60	60	60	$\frac{1}{4}$ Marks
Subject wise test – 08	27.12.2021	Till OSSC – JE 2022	Estimating	60	60	60	$\frac{1}{4}$ Marks

Estimating		Prelims Exam					
Subject wise test –09 DCS & DSS	31.12.2021	Till OSSC – JE 2022 Prelims Exam	DCS & DSS	60	60	60	¼ Marks
Subject wise test –10 Environment	03.01.2022	Till OSSC – JE 2022 Prelims Exam	Environment	60	60	60	¼ Marks
Subject wise test –11 Construction Management	07.01.2022	Till OSSC – JE 2022 Prelims Exam	Construction Management	60	60	60	¼ Marks
Subject wise test –12 Advance Construction Technology	10.01.2022	Till OSSC – JE 2022 Prelims Exam	Advance Construction Technology	60	60	60	¼ Marks
Mixed Test - 01	14.01.2022	Till OSSC – JE 2022 Prelims Exam	Structural Analysis + Estimate +Construction Management	100	100	90	¼ Marks
Mixed Test - 02	17.01.2022	Till OSSC – JE 2022 Prelims Exam	Survey + Transport engg.	100	100	90	¼ Marks
Mixed Test - 03	21.01.2022	Till OSSC – JE 2022 Prelims Exam	Civil engg. Materials + construction Technology + Advanced Construction technology	100	100	90	¼ Marks
Mixed Test - 04	24.01.2022	Till OSSC – JE 2022 Prelims Exam	Structural Design + Public health Engg.	100	100	90	¼ Marks
Mixed Test - 05	28.01.2022	Till OSSC – JE 2022 Prelims Exam	Hydraulics + Irrigation	100	100	90	¼ Marks
Full Length Test - 01	31.01.2022	Till OSSC – JE 2022 Prelims Exam	Full Syllabus	100	100	90	¼ Marks
Full Length Test -02	04.02.2022	Till OSSC – JE 2022 Prelims Exam	Full Syllabus	100	100	90	¼ Marks
Full Length Test -03	07.02.2022	Till OSSC – JE 2022 Prelims Exam	Full Syllabus	100	100	90	¼ Marks
Full Length Test -04	11.02.2022	Till OSSC – JE 2022 Prelims Exam	Full Syllabus	100	100	90	¼ Marks
		Till OSSC –					¼

Full Length Test -05	14.02.2022	JE 2022 Prelims Exam	Full Syllabus	100	100	90	Marks
Full Length Test – 06	18.02.2022	Till OSSC – JE 2022 Prelims Exam	Full Syllabus	100	100	90	$\frac{1}{4}$ Marks
Full Length Test – 07	21.02.2022	Till OSSC – JE 2022 Prelims Exam	Full Syllabus	100	100	90	$\frac{1}{4}$ Marks