

Details for the posts advertised vide Advertisement Notification Nos 01 and 02 of 2021					
S.No	Advertisement No.	Post No.	Department	Self Design/Appointing Authority	Name of the post
01	01 of 2021	1	as above	as above	Junior Engineer (Civil)

Syllabus For Junior Engineer (Civil)

ANNEXURE "D"

Syllabus for Written test

Marks =120

120 Minutes

1. Surveying: 10 Marks

Importance of surveying, principles and classifications, measurements of distance and directions, chain surveying, compass surveying, leveling, tachometry, theodolite, traversing, contouring, plane table surveying, curves.

2. Mechanics and Structural analysis: 15 Marks

Introduction, Concept of rigid body scalar and vector quantities, Laws of force, moment, friction, Centre of gravity, simple machines, torsion, Properties of material, Bending moment and shear force in statically determinate beams, Simple stress and strain relationship, Stress and strain in (Teds) dimensions, principal stresses, stress transformation, Simple bending theory, flexural and shear stresses, unsymmetrical bending, shear Centre, Thin-walled pressure vessels, uniform torsion, buckling of column, combined and direct bending stresses, slope and deflection, Analysis of trusses

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3. RCC Structures: 15 Marks

Concrete technology, Ingredients of concrete, water cement ratio, workability properties of concrete, admixtures, special concretes, Nondestructive tests, basics of mix design, Concrete design-basic working stress and limit state design concepts, analysis of ultimate load capacity and design of members subjected to flexure, shear, compression and torsion by limit state methods, Basic elements of pre-stressed concrete, analysis of beam sections at transfer and service loads, one-way slab, two-way slab.

4. Soil Mechanics: 10 Marks

Origin of soils, properties, soil classification, three phase system, fundamental definitions, relationship and interrelationship, flow of water through soils, permeability & seepage, effective stress principle, deformation of soils, consolidation, compaction, shear strength characteristics, plate load test, SPT, Density control, Measurement of field density by core cutter and sand replacement method, soil exploration, bearing capacity and its methods

5. Fluid Mechanics and Hydraulics: 15 Marks

Properties of fluids, hydrostatic pressure, measurement of pressure, flow measurements, flow through pipes, flow through open channels, hydraulic pumps, principle of conservation of mass, momentum, energy and corresponding equations, potential flow, applications of momentum and Bernoulli's equation, laminar and turbulent flow, flow in pipes, pipe networks, Concept of boundary layer and its growth, Uniform flow, critical flow and gradually varied flow in channels, specific energy concept, hydraulic jump Forces on immersed bodies, flow measurements in channels, tanks and pipes, Dimensional analysis and hydraulic modelling Kinematics of flow.

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6. Irrigation Engineering: 10 Marks

Introduction, water requirement of crops, hydrological cycle, Dams, Canals, dams, canal head works and regulatory works, cross drainage works, hydraulic

structures, river training works, water-logging, drainage, ground water recharge, well hydraulics.

7. Water supply and waste water Engineering: 10 Marks

Introduction, quantity of water, quality of water, water treatment, conveyance of water, laying out of pipes, building water supply, water supply fixtures and installation, plumbing, sewerage system, laying and construction of sewers, sewage characteristics, Methods of disposal, sewage treatment, building drainage, air and noise pollution

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8. Highway Engineering: 10 Marks

History of development of highway and planning, Definitions of various terms used in highway engineering., Methods of road construction, IRC classification, Highway surveys and plans Geometric design, Different types of road materials in use, Binders, Types of pavement, CBR method, sub grade preparation, WBM, WPM, Bituminous Macadam, dense bituminous macadam, special problems in hill road.

9. Railway Engineering: 10 Marks

History of Indian railways, Gauges used, permanent way its components, Types of rails, creep, welding, Rail fixtures and fastenings, Signaling, Points and Crossings, Bridge terminology, classification, components, foundations.

10. Construction planning management: 15 Marks

Network diagrams, PERT-CPM, cost optimization contracts, tenders, depreciation, valuation, organization, measurement books, cash book, functions of management, construction planning, quality control, inventory control, Estimation and costing definitions, methods of estimation and type of estimates.

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Zimbabwean R M E Junior Syllabus

**Trinidad and Tobago. Ministry of
Education. GORTT/IBRD Basic
Education Project**

Zimbabwean R M E Junior Syllabus:

Education and Development in Zimbabwe Edward Shizha, Michael T. Kariwo, 2012-01-01 The book represents a contribution to policy formulation and design in an increasingly knowledge economy in Zimbabwe. It challenges scholars to think about the role of education, its funding, and the egalitarian approach to widening access to education. The nexus between education, democracy, and policy change is a complex one. The book provides an illuminating account of the constantly evolving notions of national identity, language, and citizenship from the Zimbabwean experience. The book discusses educational successes and challenges by examining the ideological effects of social, political, and economic considerations on Zimbabwe's colonial and postcolonial education. Currently, literature on current educational challenges in Zimbabwe is lacking, and there is very little published material on these ideological effects on educational development in Zimbabwe. This book is likely to be one of the first on the impact of social, political, and economic meltdown on education. The book is targeted at local and international academics and scholars of history of education and comparative education, scholars of international education and development, undergraduate and graduate students, and professors who are interested in educational development in Africa, particularly Zimbabwe. Notwithstanding, the book is a valuable resource to policy makers, educational administrators, and researchers, and the wider community. Shizha and Kariwo's book is an important and illuminating addition on the effects of social, political, and economic trajectories on education and development in Zimbabwe. It critically analyses the crucial specifics of the Zimbabwean situation by providing an in-depth discourse on education at this historical juncture. The book offers new insights that may be useful for an understanding of not only the Zimbabwean case but also education in other African countries. Rosemary Gordon, Senior Lecturer in Educational Foundations, University of Zimbabwe. Ranging in temporal scope from the colonial era and its elitist legacy through the golden era of populist universal elementary education to the disarray of contemporary socioeconomic crisis, covering elementary through higher education and touching thematically on everything from the pernicious effects of social adjustment programmes through the local deprofessionalization of teaching, this text provides a comprehensive, wide-ranging and yet carefully detailed account of education in Zimbabwe. This engagingly written portrayal will prove illuminating not only to readers interested in Zimbabwe's education specifically but more widely to all who are interested in how the sociopolitical shapes education, how ideology, policy, international pressures, economic factors, and shifts in values collectively forge the historical and contemporary character of a country's education. Handel Kashope Wright, Professor of Education, University of British Columbia. *Teacher in Zimbabwe*, 2014. **South African Journal of Higher Education**, 2008. **Civics Education Syllabus Zimbabwe Junior Certificate** Zimbabwe. Ministry of Education, Sport, and Culture, 2007. History Syllabus, 2007. Geography Syllabus, 2007. **Social Studies Syllabus for Primary Schools** Zimbabwe. Ministry of Education and Culture, 1980. *Junior School Syllabus* Southern Rhodesia. Department of Native Development, 1932. *Middle Secondary School (forms*

III-IV) Syllabus Zimbabwe. Ministry of Education and Culture,1983 Lower and Middle Secondary (forms I-IV) Syllabus
,1982 **First Language Syllabus Grades 1-3 Setswana Version- Junior Primary Phase** Ministry of Education-
Republic of Namibia, **First Language Syllabus Grades 1-3 Khoekhoegowab Version- Junior Primary Phase**
Ministry of Education Republic of Namibia, **Primary School Syllabus** Nigeria. East-Central State. Ministry of
Education,1975 **Social Studies** Botswana. Department of Curriculum Development and Evaluation,1987 **Primary**
School Syllabus Western Region (Nigeria). Ministry of Education,1958 Primary School Syllabus Trinidad and Tobago.
Ministry of Education. GORTT/IBRD Basic Education Project,1999 *Primary School Syllabus* Kenya. Ministry of
Education,1967 **Syllabus for Primary Schools** Lesotho. Ministry of Education,1967 **Let's Build Zimbabwe**
Zimbabwe. Ministry of Education and Culture. Curriculum Development Unit Building Team,1983 *Primary School*
Syllabus Trinidad and Tobago. Ministry of Education,1988

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