

ANNEXURE-III**SCHEME AND SYLLABUS FOR THE POST OF DIVISIONAL ACCOUNTS OFFICER
(WORKS) GRADE-II IN DIRECTOR OF WORKS ACCOUNTS****Scheme of Examination**

Written Examination (Objective type)		No. of Questions	Duration (Minutes)	Maximum Marks
Paper – I	General Studies and General Abilities	150	150	150
Paper - II	Arithmetic and Mensuration (S.S.C. Standard)	150	150	300
Total Marks				450

Name of the papers	Language of Examination
Paper-I: General Studies and General Abilities	Bilingual i.e., English and Telugu
Paper-II: Arithmetic and Mensuration (S.S.C. Standard)	Bilingual i.e., English and Telugu

SYLLABUS**Paper-I: General Studies and General Abilities**

1. Current affairs – Regional, National and International.
2. International Relations and Events.
3. General Science; India's Achievements in Science and Technology.
4. Environmental issues; Disaster Management- Prevention and Mitigation Strategies.
5. Economic and Social Development of India and Telangana.
6. Physical, Social and Economic Geography of India.
7. Physical, Social and Economic Geography and Demography of Telangana.
8. Socio-economic, Political and Cultural History of Modern India with special emphasis on Indian National Movement.
9. Socio-economic, Political and Cultural History of Telangana with special emphasis on Telangana Statehood Movement and formation of Telangana state.
10. Indian Constitution; Indian Political System; Governance and Public Policy.
11. Social Exclusion; Rights issues such as Gender, Caste, Tribe, Disability etc. and inclusive policies.
12. Society, Culture, Heritage, Arts and Literature of Telangana.
13. Policies of Telangana State.
14. Logical Reasoning; Analytical Ability and Data Interpretation.
15. Basic English. (10th Class Standard)

Paper-II : Arithmetic and Mensuration (SSC Standard)**Arithmetic (SSC Standard)**

1. **Number System** – Rational and irrational numbers – decimal representations – real numbers modulus of a real numbers – inequalities involving modulus – prime and composite numbers – least common multiple and greatest common divisor – surds and logarithms.
2. **Ratio and Proportion** – Averages – percentages – profit and loss – Discounts – Simple and compound interests – partnerships – Time and distance – Time and work – Clocks and Calendar.
3. **Polynomials and Progressions** - Special products – factorization – Remainder theorem – Quadratic equations – Zeros of a cubic polynomial – algebraic expression- Arithmetic progression – Geometric progression.
4. **Sets** – fundamental operations on sets – System of linear equations in two variables.
5. **Statistics and Probability** – Frequency table – Mean, Median and Mode – simple problems on probability.

Mensuration (SSC Standard)

1. Areas of square, rectangles, triangles – quadrilaterals – parallelogram and trapezium.
2. Geometry of triangles and polygons – identical triangles, similarity of triangles – Pythagoras theorem and applications.
3. Surface area and volumes of solids such as Sphere, Cylinder, Cone and Prism.
4. Geometry of Circles –Tangents and Secants of a circle.
5. Coordinates in two-dimension plane – Distance of formula – area of triangle – Equation of a straight line in different forms – Applications – Trigonometric – ratios and their values for special angles – simple trigonometric – identities – Applications of Trigonometry.