

ગુજરાત ગૌણ સેવા પસંદગી મંડળ
બ્લોક નં. ૨, પહેલો માળ, કર્મચોગી ભવન, સેક્ટર – ૧૦, ગાંધીનગર

જાહેરાત ક્રમાંક: ૨૧૬/૨૦૨૩૨૪ ની સર્વેચર વર્ગ-૩ની સ્પર્ધાત્મક પરીક્ષાનો અભ્યાસક્રમ

(વેબસાઇટ એડ્રેસ : <https://ojas.gujarat.gov.in> અને <https://gsssb.gujarat.gov.in>)

ગુજરાત ગૌણ સેવા પસંદગી મંડળ, ગાંધીનગરની જાહેરાત ક્રમાંક : ૨૧૬/૨૦૨૩૨૪ દ્વારા નિયામકશ્રી, નગર આયોજન અને મુલ્યાંકન, ગાંધીનગરની સર્વેચર, વર્ગ-૩ સંવર્ગની જગ્યાઓ સીધી ભરતીથી ભરવા માટે ઉમેદવારો પાસેથી ઓનલાઇન એપ્લિકેશન મંગાવવામાં આવેલ છે. સદર સંવર્ગની જગ્યાઓ ભરવા માટે MCQ - CBRT (Computer Based Response Test) પદ્ધતિથી પરીક્ષાનું આયોજન કરવાનો નિર્ણય લીધેલ છે, જેની સબંધિત ઉમેદવારોએ નોંધ લેવી.

સદર સંવર્ગની પરીક્ષાનો વિગતવાર અભ્યાસક્રમ આ સાથે સામેલ છે.

તારીખ: ૨૦મી જાન્યુઆરી, ૨૦૨૪
ગાંધીનગર.

હસમુખ પટેલ
સચિવ

ADVERTISEMENT NO. 216/202324, Surveyor (UD & UHD)

Total Question	210
Total Marks	210
No. of Options	4 (A,B,C,D)
Mark per question	1 (For right answer)
Negative Marking	Yes
Negative Mark per question	1/4 (0.25) (For wrong answer)
No. of Languages	As per below table

Section	PART	Topic & Syllabus	Mark	Question	Language
1	A	Reasoning & Data Interpretation	30	30	Gujarati
		<ol style="list-style-type: none"> 1 Problems on Ages 2 Venn Diagram 3 Visual reasoning 4 Blood relation 5 Arithmetic reasoning 6 Data interpretation (charts, graphs, tables) 7 Data sufficiency 			

1	A	Quantitative Aptitude	30	30	Gujarati
		<ol style="list-style-type: none"> 1 Number Systems 2 Simplification and Algebra 3 Arithmetic and Geometric Progression 4 Average 5 Percentage 6 Profit-Loss 7 Ration and Proportion 8 Partnership 9 Time and Work 10 Time, Speed and Distance 11 Work, Wages and chain rule 			

2	B	Constitution of India	10	10	Gujarati
		<ol style="list-style-type: none"> 1 Preamble of the Constitution 2 Fundamental rights 3 Directive principles of state policy 4 Fundamental Duty 5 Power, role and responsibility of President, vice president and governor 6 Parliamentary system 7 Amendment of Indian constitution , emergency provisions in Indian constitution 8 Centre – State Government and their relation 9 Judicial System of Indian Constitution 10 Constitutional body 			

2	B	Current Affairs	10	10	Gujarati
		<ol style="list-style-type: none"> 1 Current events of state, national and international importance 			

	B	Comprehension		10	10	
3		1	Comprehension in Gujarati	5	5	Gujarati
4		2	Comprehension in English	5	5	English
			To assess comprehension, interpretation and inference skills <i>A paragraph given with set of question on the basis of paragraph Or statement and assertion type question can be asked</i>			

5	B	Questions and Its Applications related to Technical Qualification		120	120	English & Gujarati
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1 **Surveying**

Principles of survey, Reconnaissance survey, Classification of surveys, various methodologies, instruments & analysis of measurement of distances, elevation and directions

Topographic surveying using Total Station

Contour survey: Characteristics of contour, Contour survey and mapping, Methods of Contouring, Interpolation of contours, slope analysis, gradients estimation

Aerial survey, Unmanned Aerial Vehicle (UAV), Global Positioning System, Differential Global Positioning System (DGPS), LIDAR

Remote sensing, Applications of GIS

2 **Preparation and study of Maps/Plans**

About cadastral and topographic maps in Indian context: Features, scale, data source, organizations etc.

Elements of Maps, Map Layout; Graphical, linear and areal scales, Notations involving basic discipline of maps; Measurement of areas

Use and application of Computer Aided Drawing (CAD)

3 **Soil Engineering and Water Resources Management**

Bearing Capacity of Soil, Compaction and Stabilization of Soil

Ground Water: terminologies related to ground water and its recharging, types/methods of artificial recharging

Methods and structures for rain water harvesting

4 **Ecology and Environment**

Importance of environment, Natural eco-system- components and processes, environment issues

Causes of environmental pollution, water pollution, air pollution, noise as pollution, Pollution due to solid waste, Pollution of land due to industrial and chemical waste

Environmental Audit, objective based types of audit, EIA, Environmental clearance for the civil engineering projects

Green Building Concept, Green Building Materials and various systems of rating.

5 **Seismic Engineering and Disaster Management**

Principles of seismic Engineering and its application in civil engineering and design of structure

Features of disasters such as Floods, Earthquakes, Fires, Cyclones, Epidemics, etc

Management and mitigation of above disasters

Effects of earthquakes on buildings, construction and maintenance of earthquake proof /resistant masonry structure

6 **Transportation Planning and Engineering:**

Importance & Classification of roads, planning & construction of roads

Junction/ Intersection- types, elements and design criteria

7 **Estimation**

Estimating and Costing - definition, purpose and related terminologies

Rate Analysis: factors affecting, Importance and use Schedule of Rates (SOR)

8 **Engineered systems for solid waste management**

Characteristics and composition of solid waste, Generation of solid waste and its classification, On site handling, collection, processing, transfer and disposal of solid waste

9 **Current Trends and Recent Advancements in the Above Fields.**