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**सहायक नगर योजना (टाउन प्लानिंग) पर्यवेक्षक के लिए बिहार लोक सेवा आयोग द्वारा संचालित होने वाली बिहार नगरपालिका नगर योजना (टाउन प्लानिंग) पर्यवेक्षक संवर्ग संयुक्त प्रतियोगिता परीक्षा हेतु पाठ्यक्रम।**

यह सहायक नगर योजना (टाउन प्लानिंग) पर्यवेक्षक के लिए पाठ्यक्रम है। नगर विकास एवं आवास विभाग द्वारा बिहार लोक सेवा आयोग से परामर्श कर समय-समय पर सहायक नगर योजना (टाउन प्लानिंग) पर्यवेक्षक के पदों पर सीधी भर्ती हेतु बिहार लोक सेवा आयोग द्वारा बिहार नगरपालिका नगर योजना (टाउन प्लानिंग) पर्यवेक्षक संवर्ग संयुक्त प्रतियोगिता परीक्षा इस पाठ्यक्रम के आधार पर संचालित की जायेगी।

परीक्षा दो पत्रों की होगी, जिसमें 01 पत्र अनिवार्य एवं 01 पत्र वैकल्पिक होंगे। प्रथम पत्र सामान्य अध्ययन वस्तुनिष्ठ (Objective) होंगे। 01 वैकल्पिक पत्र जो प्लानिंग अथवा रिमोट सेन्सिंग एण्ड जीआईएस (स्पेशलाइजेशन इन अर्बन एण्ड रिजनल स्टडीज) के लिए अलग-अलग होंगे।

I. लिखित परीक्षा (वस्तुनिष्ठ) के प्रत्येक पत्र के लिए विषय, पत्र समय और कुल अंक निम्नांकित होंगे :-

(क) अनिवार्य पत्र

पत्र संख्या	विषय	अवधि	कुल अंक
1	सामान्य अध्ययन	02 घंटा	100

(ख) वैकल्पिक पत्र

2	प्लानिंग	02 घंटा	100
अथवा			
2	रिमोट सेन्सिंग एण्ड जीआईएस (स्पेशलाइजेशन इन अर्बन एण्ड रिजनल स्टडीज)	02 घंटा	100

कुल (1+2) = 200.

## II. स्तर और पाठ्यक्रम।

निम्नांकित पाठ्यक्रम के अन्तर्गत पत्रों का स्तर ऐसा होगा जो किसी भारतीय विश्वविद्यालय के बैचलर ऑफ प्लानिंग/आर्किटेक्चर अथवा पोस्ट ग्रेजुएट डिप्लोमा कोर्स इन रिमोट सेन्सिंग एण्ड जीआईएस (स्पेशलाइजेशन इन अर्बन एण्ड रिजनल स्टडीज) के लिए समीचीन होगा।

(क) अनिवार्य पत्र

प्रथम पत्र	सामान्य अध्ययन	सामान्य अध्ययन के पत्र में समसामयिक घटनाओं तथा दैनिक प्रेक्षण से संबंधित विषयों एवं अनुभवों और उनके वैज्ञानिक पहलुओं की जानकारी सम्मिलित होगी।
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(ख) वैकल्पिक पत्र

द्वितीय पत्र	प्लानिंग	Fundamentals of Urban & Regional Planning, Fundamentals of Building Structures, Materials and Principles of Constructions, Introduction to drawing equipments and mediums, Geometric Projections - Orthographic, isometric and perspective projections of one, two and three dimensional objects.
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		<p><b>Evolution of Settlements</b> - The City in History, Settlement size, pattern and structure as a function of socio-cultural, economic, military and religious factors. Variations in civilizations-Egyptian, Mesopotamian, Greek, Roman. Town planning in Medieval times and in Renaissance Europe.</p> <p><b>Planning in Post Industrial Revolution Era</b> - Concepts of garden City, City beautiful, Linear city etc., contributions of all leading masters in planning, Socio-economic impacts of growth of urban areas; rural-urban migration.</p> <p><b>Theories of Urbanization</b> - Theories of urbanization including Concentric Zone Theory; Sector Theory; Multiple Nuclei Theory and other latest theories; Land Use and Land Value. Theory of William Alonso on location and Land use;</p> <p><b>Forces on Buildings</b> - Forces of compression and tension, concept of equilibrium forces and conditions of equilibrium, concept of elasticity, Hooke's law, stress strain relationship of tension and compression. Shear force and bending moment.</p> <p>Components of buildings, Beams and Columns, RCC Structures, Steel Structures,</p> <p><b>Introduction of Structural Materials</b> - Brick, timber, stone, cement, lime, glass, R.C.C., asbestos, paints and varnishes, fiber Reinforced Plastic (FRP)</p> <p><b>Principles of Construction of Building Elements</b> Foundations, footings, D.P.C., flooring sills, lintel roofing, parapets, coping, cladding expansion joints, waterproofing of roofs, external wall section with detail, beams, column slabs, retaining walls.</p> <p><b>Statistical Methods</b> - Arithmetic mean, median, mode, geometric mean and harmonic mean; measures of absolute dispersion, range, quartile deviation, average deviation, standard deviation, skewness and kurtosis.</p> <p><b>Basic Architectural Design</b></p> <p><b>Anthropometrics and Layouts of Rooms</b> - Anthropometrics, Human Activity and Space Use; Furniture Layout of a room; Building circulation/flow diagrams; Concepts of Space, Form and Function.</p> <p><b>Architectural Space Standards</b> - Introduction of Architectural Space Standards, Design of simple Residential, Commercial, Institutional Buildings</p> <p><b>Elements of Economics</b> - Definition and Scope of Economics, Theory of Demand and Supply, Theory of Firm Production</p> <p><b>Air Quality &amp; Solid Waste Management</b> - Sources, types and effects of air pollution and solid waste disposal in cavities, urban industrial processes and land use and transportation implications in air and solid waste pollution; norms, standards, laws, organizations and policies in urban air quality control and solid waste management; examples of best practices.</p> <p><b>Urban Development Plan</b></p> <p><b>Context of Regional Plans</b> - Understanding the contents of various types of regional plans and their linkages with higher and lower order plans.</p> <p><b>Constitutional Provisions</b> - District planning in the context of constitution 73rd and 74th</p>
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		amendment acts; district planning committees; metropolitan planning committees.
अथवा		
द्वितीय पत्र	रिमोट सेंसिंग एण्ड जीआईएस (स्पेशलाइजेशन इन अर्बन एण्ड रिजनल स्टडीज)	<b>Urban and Regional Studies</b> Fundamentals of Urban and Regional Planning, Geospatial Technologies for Urban and Regional Area Analysis, Urban Resources, Services and Facilities Analysis, Advanced Geospatial Technologies for Urban and Regional Studies. Basics of Remote Sensing, Basics of Photogrammetry and Cartography, Digital image Processing, Basics of Geographical Information System, Statistics and Programming

नोट:- सहायक नगर योजना (टाउन प्लानिंग) पर्यवेक्षक के पदों पर नियुक्ति हेतु विषय एवं पाठ्यक्रम उपरोक्त के अनुसार होगी। विभाग उपरोक्त अनुसूची में अंकित विषय एवं पाठ्यक्रम को समय-समय पर आवश्यकतानुसार संशोधित कर सकेगी।

# Eligible Qualification and Equivalent Qualification with name of offering Institutions

SL. NO.	Eligible Qualification	Equivalent Qualifications and name of offering Institutions	Remarks
(I)	(II)	(III)	(IV)
1	<b>B. Plan</b> - School of Planning and Architecture (SPA) Delhi, Bhopal, Vijaywada, Mysore - CEPT University, Amhmadabad Amity University, Noida, Mumbai, Gurgaon	.....	.....
2	<b>P.G. Diploma in Remote Sensing and G.I.S (Specialization in Urban and Regional Studies)</b> - Indian Institute of Remote Sensing (IIRS) Dehradun	a) P.G. Diploma in Remote Sensing and G.I.S - Banaras Hindu University (BHU) - Indian Institute of Remote Sensing (IIRS) Dehradun - Jamia Millia Islamia - Central Board of Irrigation and Power New Delhi b) P.G. Diploma in Geoinformatics - Centre for Development of Advanced Computing (CDAC), Noida c) Master in Geomatics - CEPT University Amhmadabad d) M.Sc Remote Sensing and GIS - Aligarh University e) M.Tech Geoinformatics - Symbiosis Institute of Geoinformatics, Pune f) M.Tech in Remote Sensing and GIS - Remote Sensing Applications Centre, Lucknow	Courses as mentioned in Column - III may be considered as Equivalent Qualification
3	a) Master in Town Planning b) Master in Regional Planning - CEPT University, Amhmadabad - School of Planning and Architecture (SPA) Delhi c) Master in Urban Planning - CEPT University, Amhmadabad - School of Planning and Architecture (SPA) Delhi d) Master in City Planning - Indian Institute of Technology (IIT) Kharagpur e) Master in Country Planning	a) Master in Urban Transport system - CEPT University, Amhmadabad b) Master in Urban Infrastructure - CEPT University, Amhmadabad c) Master in Urban Housing - CEPT University, Amhmadabad d) Master in Industrial Area Planning - CEPT University, Amhmadabad e) Master in Transport Planning - School of Planning and Architecture (SPA) Delhi f) Master in Environment Planning - School of Planning and Architecture (SPA) Delhi g) Master in Housing - School of Planning and Architecture (SPA) Delhi	Courses as mentioned in Column - III may be considered as Equivalent Qualification

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