



**PUNJAB PUBLIC SERVICE COMMISSION**  
**BARADARI GARDEN, PATIALA- 147001**  
**WEBSITE : <http://ppsc.gov.in>**

**PUBLIC NOTICE**

**RECRUITMENT TO 07 POSTS PLANNING OFFICER (GROUP-A) IN THE DEPARTMENT OF TOWN AND COUNTRY PLANNING, GOVERNMENT OF PUNJAB.**

1. With reference to advertisement No. 20227 published on 19.05.2022 for the ibid posts, the commission has decided to **revise pattern and the syllabus** for the ibid posts.
2. The **revised pattern** for the written competitive examination as mentioned in clause 6.2 of "General Information for the candidates" shall be as follows:

Sr. No.	Topic	No. of Questions	Marks (Each Question carries 4 Marks)	Type of Questions
1	Questions from the subject (Part A of Syllabus)	90	360	MCQs (Multiple Choice Questions)
2	Questions from General Knowledge & Current Affairs (Part B of Syllabus)	10	40	
3	Questions from General Mental Ability, Logical Reasoning & Quantitative Aptitude (Part C of Syllabus)	10	40	
4	Punjabi (Part D of Syllabus)	10	40	
	<b>Total</b>	<b>120</b>	<b>480</b>	

3. The revised syllabus for the ibid posts is annexed as **Annexure –A**.
4. The Procedure of Selection will remain same as mentioned in Clause 6.1 of the General Information.
5. All other conditions such as reservation of the posts, age, eligibility, essential qualification, etc. of the advertisement shall remain same as mentioned in "General Information for the Candidates".

Dated : 28/04/2023

Sd/-  
Secretary (Examinations)  
Punjab Public Service Commission  
Patiala

**Part-A**  
**SUBJECT SYLLABUS**

**1. Architecture and Design**

- a. Anthropometrics
- b. Site planning
- c. Circulation- horizontal and vertical
- d. Space Standards, Building Codes, National Building Code.
- e. Architectural styles and examples of different periods of Indian and Western History of Architecture
- f. Recent trends in Contemporary Architecture; Works of renowned national and international architects.

**2. Building Materials, Technology, Construction and Management**

- a. Properties, constituents of different building materials viz. mud, timber, bamboo, brick, concrete, steel, glass, FRP, AAC, different polymers, composites.
- b. Building construction techniques, methods and details
- c. Building systems and prefabrication of building elements
- d. Estimation
- e. Specifications
- f. Valuation
- g. Professional practice
- h. Construction planning and equipment
- i. Project management techniques e.g. PERT, CPM etc.

**3. Structural Design**

- a. Principles of strength of materials
- b. Structural elements in RCC & Steel
- c. Structural systems in RCC and Steel
- d. Principles and design of disaster resistant structures.

**4. Climate and Landscape Design**

- a. Ecological principles
- b. Concepts of Environmental Impact Analysis
- c. Thermal comfort, ventilation and air movement
- d. Climate responsive design
- e. Architectural acoustics
- f. Green Buildings - Rating; ECBC
- g. Environmental pollution- types, causes, controls and abatement strategies.

**5. Urban Design**

- a. Concepts and theories of urban design
- b. Urban design interventions for sustainable development and transportation
- c. Historical and modern examples of urban design
- d. Elements of urban built environment – urban form, spaces, structure, pattern, fabric, texture, grain etc
- e. Principles, tools and techniques of urban design
- f. Urban renewal and conservation
- g. Development controls – FAR, densities and building byelaws.

**6. Building Services**

- a. Building Services: Water supply
- b. Sewerage and drainage systems
- c. Sanitary fittings and fixtures
- d. Plumbing systems
- e. Principles of lighting and illumination

- f. Elevators and Escalators
- g. Air-Conditioning systems
- h. Fire fighting Systems
- i. Building Safety and Security systems.

## **7. Planning Theory and History**

- a. Evolution of Settlements
- b. Study of Evolution.
- c. Human settlements as an expression of civilization.
- d. Basic elements of the city, concepts of space, time, scale of cities;
- e. Town Planning in ancient India medieval, renaissance, industrial and post- industrial cities
- f. Contribution of individuals to city planning, Lewis Mumford, Patrick Geddes, Peter Hall, Le Corbusier, Tony Garnier, Ebenezer Howard.
- g. Definitions of town and country planning, Orthodoxies of Planning, sustainability and rationality in planning, components of sustainable urban and regional development,
- h. Theories of urbanization including Concentric Zone Theory, Sector Theory, Multiple Nuclei Theory and other latest theories.
- i. Emerging Concepts: Global City, inclusive city, Safe city etc. City of the future, future of the city; shadow cities, divided cities; Models of planning: Advocacy and Pluralism in Planning; Systems approach to planning: rationalistic and incremental approaches, mixed scanning and middle range planning, advocacy planning and action planning, equity planning

## **8. Planning Techniques**

- a. Physical surveys and Socio-economic surveys
- b. Survey techniques, etc.
- c. Land use classification/coding
- d. Techniques of preparing base maps, regional, city, zone, local area plans
- e. UDPFI guidelines, zoning regulations and development controls.

## **9. Transport Planning**

- a. Role of transport, types of transport systems, problems and mobility issues
- b. Urban form and Transport patterns, land use
- c. Hierarchy, capacity and geometric design elements of roads and intersections
- d. Basic principles of Transport infrastructure design
- e. Traffic and transportation surveys and studies, traffic characteristics
- f. Urban transport planning process-stages
- g. Mobility planning
- h. Transport, environment and safety issues
- i. Traffic Management

## **10. Housing and Community Planning**

- a. Housing as social security, safety, crime and insecurity, deprivation and social vulnerability, gender issues, housing and the elderly
  - b. Understanding housing as an important land use component of city plan/master plan, considerations for carrying out city level housing studies, projections, land use provisions
  - c. Suitability of land for housing stress identification, projecting housing requirements, calculating housing shortages, housing allocation
  - d. Approaches to neighbourhood living in traditional and contemporary societies, elements of neighbourhood structure
  - e. Planning and design criteria for modern neighbourhoods, norms and criteria for area distribution
  - f. Housing and area planning standards net residential density and gross residential density, development controls and building byelaws
  - g. UDPFI guidelines
  - h. NBC provisions
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- i. Emerging concepts of cities - Eco-City, Smart City, Transit Oriented Development (TOD), SEZ, SRZ etc.

## **11. Environmental Planning**

- a. UN/International Conferences/Conventions
- b. Environmental Concerns of human settlements
- c. Environmental surveys-Methods of data collection, interview techniques, analysis
- d. Techniques of resource protection and conservation
- e. Resources type, scale, inventory
- f. Topographic analysis
- g. Water quality
- h. Air and Noise
- i. Biodiversity
- j. Methods of addressing environmental quality
- k. Environmental Impact Assessment

## **12. Planning process**

- a. Master Plan, Development plan, structure plans, local plans, district plans, sector plans, local area plans, and regional plans
- b. Social research techniques: social survey land use survey, physical survey, building use, density, age of building, application aerial/remote sensing/GIS
- c. National policies affecting urban settlement planning

## **13. Socio-economic Planning**

- a. Nature and scope of sociology- concepts and methods
- b. Man & environment- community and settlements, urban sociology-tradition and modernity
- c. Social problems of slums and housing
- d. Social and spatial structure
- e. Basics of economics - economic and human settlements concepts of economic and economic growth-demand and supply-production economic-markets
- f. Population studies – demography
- g. Methods of population forecasts and projections.

## **14. Planning for Infrastructure**

- a. Planning of urban network and services
- b. Infrastructure systems
- c. Resource analysis
- d. Issues related to centralized city water supply and decentralized systems.
- e. Waste generation, Waste water disposal system including storm water drainage system
- f. Solid waste disposal and management
- g. Planning for fire protection

## **15. Legal issues and Professional practice**

- a. Concepts, sources, terminologies, significance of law and its relationship to Urban Planning; Indian Constitution: concept and contents; 73rd and 74th Constitution Amendment Act.
  - b. Evolution; An over view of legal tools connected with Urban Planning and Development, Land Acquisition Act,
  - c. Punjab Regional and Town Planning and Development Act
  - d. Procedures for preparation and implementation of Regional Plans, Master Plans and Town Planning Schemes
  - e. Aims and objectives of professional Institutes, sister bodies, professional role and responsibility of planning consultants, professional ethics, code of conduct and scale of professional charges.
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**Part - B**  
**GENERAL KNOWLEDGE AND CURRENT AFFAIRS**

1. Current Events of State, National and International Importance
2. Personalities in News
3. Games, Sports and Multi media
4. Science & Technology and Environmental issues.
5. Indian Polity, History, Economy and Geography .
6. History of Punjab-14th Century onwards
7. India History and National Movement.
8. Indian Art, Literature and Culture.
9. Information and Computer Technology (ICT) —
  - (a) ICT: Advantages, disadvantages and uses.
  - (b) Basic of Internet and Its applications.
  - (c) Developments in Educational Technology.

**Part - C**  
**GENERAL MENTAL ABILITY, LOGICAL REASONING &  
QUANTITATIVE APTITUDE**

1. Logical reasoning, analytical and mental ability etc.
2. Basic numerical skills; numbers, magnitudes, percentages, numerical relation appreciation etc.
3. Data analysis; Graphic presentations, charts, tables, spread sheets etc.

**Part-D**  
**PUNJABI**

1. ਬਹੁਅਰਥਕ ਸ਼ਬਦ, ਵਿਰੋਧਾਰਥਕ ਸ਼ਬਦ, ਸਮਾਨਾਰਥਕ ਸ਼ਬਦ ਅਤੇ ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਦੀ ਥਾਂ ਇੱਕ ਸ਼ਬਦ।
  2. ਪੰਜਾਬੀ ਅਖਾਣ ਅਤੇ ਮੁਹਾਵਰੇ।
  3. ਸ਼ੁੱਧ ਅਸ਼ੁੱਧ, ਸ਼ਬਦਜੋੜ।
  4. ਸ਼ਬਦ ਦੇ ਭੇਦ।
  5. ਅਗੇਤਰ/ਪਿਛੇਤਰ।
  6. ਲਿੰਗ ਅਤੇ ਵਚਨ ਬਦਲੇ।
  7. ਵਿਸ਼ਰਾਮ ਚਿੰਨ।
  8. ਵਿਆਕਰਨ।
  9. ਅੰਗਰੇਜ਼ੀ ਸ਼ਬਦਾਂ ਅਤੇ ਵਾਕਾਂ ਦਾ ਪੰਜਾਬੀ ਵਿੱਚ ਸ਼ੁੱਧ ਰੂਪ।
  10. ਅੰਕਾਂ, ਮਹੀਨੇ, ਦਿਨਾਂ ਦਾ ਸ਼ੁੱਧ ਪੰਜਾਬੀ ਰੂਪ।
  11. ਭਾਸ਼ਾ ਅਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ।
  12. ਸ਼ਬਦ ਬੋਧ।
  13. ਪੰਜਾਬ ਦੇ ਇਤਿਹਾਸ ਨਾਲ ਸਬੰਧਤ ਪ੍ਰਸ਼ਨ।
  14. ਪੰਜਾਬ ਦੇ ਮੇਲੇ, ਤਿਉਹਾਰ ਅਤੇ ਸਭਿਆਚਾਰ ਨਾਲ ਸਬੰਧਤ ਪ੍ਰਸ਼ਨ।
  15. ਅਣਡਿੱਠੇ ਪੈਰੇ ਵਿੱਚੋਂ ਪ੍ਰਸ਼ਨ।
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