

# PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Sept-2023) for Recruitment to the Post of Assistant Town Planner (Group A) in the Department of Town & Country Planning, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120  
Time Allowed: 2 Hours

Candidate's Name \_\_\_\_\_

Father's Name \_\_\_\_\_

Date of Birth          
DD MM YYYY

OMR Response Sheet No. \_\_\_\_\_

Roll No. \_\_\_\_\_

Candidate's Signature (Please sign in the box)

Question  
Booklet Set

A

Booklet Series

## INSTRUCTIONS

1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately.
2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of Ink pen or any other pen is not allowed.
3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.
5. The question paper booklet has 23 pages.
6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
7. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.
8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet.
9. There is negative marking (1 mark for each question) for questions wrongly answered by the candidate.
10. Use of Electronic/Manual Calculator is prohibited.
11. The candidate **MUST READ INSTRUCTIONS BEHIND THE OMR SHEET** before answering the questions and check that two carbon copies attached to the OMR sheet are intact.

- 1 Tony Garnier was a French architect, city planner and socialist who planned modern cities in detail according to requirements of
  - a) Industrial City Model
  - b) Residential City Model
  - c) Commercial City Model
  - d) Institutional City Model
- 2 Which is an economical model created by Chauncy Harris and Edward Ullman in the 1945 article "The Nature of Cities"?
  - a) Concentric Zone Theory
  - b) Sector Theory
  - c) Multiple Nuclei Theory
  - d) Fused Growth Theory
- 3 As per classification of Urban Settlement adopted for URDPFI guidelines, a large city has population range
  - a) 1 to 5 lakh
  - b) 5 to 10 lakh
  - c) 10 to 15 lakh
  - d) 15 to 20 lakh
- 4 In E-Governance G2B means
  - a) Government to Branches
  - b) Government to Business
  - c) Government to Buildings
  - d) Government to Bookings
- 5 Which of the following is not considered as a satellite town?
  - a) Gurgaon
  - b) Noida
  - c) Navi Mumbai
  - d) Gwalior
- 6 The K-7 principle in Central Place theory relates to
  - a) Administrative principle
  - b) Marketing principle
  - c) Transport principle
  - d) Sustainability principle

- 7 Patrick Geddes Triad explains the relationship amongst which of the following?
- a) Folk, Work & Leisure
  - b) Folk, Space & Shelter
  - c) Folk , Place & Work
  - d) Folk , Form & culture
- 8 Hilly Area as per National Building Code has been defined, which is above
- a) 500m above mean sea level
  - b) 600m above mean sea level
  - c) 700m above mean sea level
  - d) 800m above mean sea level
- 9 Pick the incorrect statement for Sustainable Waste Management
- a) Door to door waste collection
  - b) Segregation at the household level
  - c) Recycling of waste done at decentralized, say, ward or even lower level
  - d) All wastes to be dumped in landfill sites
- 10 “Pan city development” is part of
- a) Digital India Mission
  - b) Swachh Bharat Mission
  - c) Atal Innovation Mission
  - d) Smart Cities Mission
- 11 NUIS scheme base & Urban thematic GIS data base is available on
- a) 1:10,000 scale
  - b) 1:20,000 scale
  - c) 1:30,000 scale
  - d) 1:40,000 scale
- 12 Open strip of land on the periphery of a town for the purpose of limiting the growth is known as
- a) Green belt
  - b) Focal point
  - c) Cul-de-sac
  - d) Conurbation

- 13 As per Solid Waste Management Rules, 2016, the landfill site shall be large enough to last for at least
- a) 05 - 10 Years
  - b) 10 - 15 years
  - c) 20 - 25 years
  - d) 30 - 50 Years
- 14 How many sustainable development goals (SDG) have been formulated by United Nations in 2015?
- a) 11
  - b) 15
  - c) 17
  - d) 19
- 15 Which of the following has highest passenger car unit (PCU)?
- a) Horse drawn cart
  - b) Auto rickshaw
  - c) Bullock cart
  - d) Cycle rickshaw
- 16 Which of the following is not a zoning method?
- a) Height
  - b) Character
  - c) Accessibility
  - d) Density
- 17 Which of the following is not a mechanism for land assembly techniques?
- a) Land Pooling
  - b) Land Acquisition
  - c) Land Reservations
  - d) Land Society
- 18 Which scheme is based on Government of India's vision for "Slum free India"?
- a) Rajiv Awas Yojna, 2011
  - b) JNNURM
  - c) AMRUT
  - d) JJM

- 19 Central Slum Area (Clearance & Improvement) Act was formulated in which one of the following year?
- a) 1952
  - b) 1956
  - c) 1960
  - d) 1964
- 20 Which Vertical is not implemented through PMAY-U scheme?
- a) Infrastructure Rejuvenation Construction (IRC)
  - b) Affordable Housing in Partnership (AHP)
  - c) In-Situ Slum Redevelopment (ISSR)
  - d) Credit Linked Subsidy Scheme (CLSS).
- 21 Minimum area of a habitable room in a single room dwelling size shall be (as per NBC)
- a) 7.5 sq.m
  - b) 8.5 sq.m
  - c) 9.5 sq.m
  - d) 10.5 sq.m
- 22 A new housing price index RESIDEX has been launched by-
- a) HDFC
  - b) NITI AYOOG
  - c) NHB
  - d) HUDCO
- 23 Minimum built up area (excluding parking, basement area, and typical structures) requirement to be eligible for certification under GRIHA v.2019 for new construction projects is
- a) 2000 sqm
  - b) 2500 sqm
  - c) 3000 sqm
  - d) 3500 sqm
- 24 The number of cities selected under smart cities initiatives in India are
- a) 96
  - b) 100
  - c) 20
  - d) 95

- 25 Occupancy rate is equal to
- a) Population Density / Accommodation Density
  - b) Population Density + Accommodation Density
  - c) Population Density - Accommodation Density
  - d) Population Density  $\times$  Accommodation Density
- 26 As per Punjab building byelaws, the scale of building plans, sections and elevations for submission drawings shall be
- a) 1:100
  - b) 1:200
  - c) 1:300
  - d) 1:400
- 27 LEED certification is a
- a) Green building rating
  - b) Green city rating
  - c) Smart city rating
  - d) Green development ranks
- 28 Urban Service Level Benchmarking (SLB) initiative covers which of the following sectors?
- a) Water supply, wastewater, solid waste management and storm water drainage
  - b) Water supply, wastewater, disaster management and storm water drainage
  - c) Water supply, wastewater, solid waste management and land Management
  - d) Water supply, wastewater, plastic waste management and storm water drainage
- 29 Which is not the aim of landfill design?
- a) To minimize ingress of water
  - b) To maximize the production of leachate
  - c) To minimize uncontrolled release of landfill gases in the atmosphere
  - d) To maximize the production of bacteria
- 30 As per Indian Standard organization, PH value range of Potable water shall be-
- a) 4.5-5.5
  - b) 5.5-6.5
  - c) 6.5-8.5
  - d) 5.5-7.5

- 31 Which statement according to National Water Policy, 2012 by Ministry of Water Resources, stands true?
- a) Urban water supply and sewage treatment must be disintegrated
  - b) High water intensive sanitation and sewerage systems must be designed
  - c) Centralized sewage treatment plants should be incentivized
  - d) Water reuse must be encouraged in urban settlements
- 32 As per seismic zoning map of India, zones which are more vulnerable to earthquakes are
- a) Zone I&II
  - b) Zone II&III
  - c) Zone III&IV
  - d) Zone IV&V
- 33 What is the theme of Earth day 2023?
- a) Protect our species
  - b) Invest in our planet
  - c) Restore our earth
  - d) Climate action
- 34 AMASR Act, 2010, deals with
- a) Slum Redevelopment
  - b) Protection of Heritage sites
  - c) Protection of Natural habitats
  - d) Industrial development
- 35 As per 74<sup>th</sup> Amendment Act, a Nagar Panchayat shall be constituted for
- a) Smaller Urban Area
  - b) Rural Area
  - c) Area in transition from rural to urban area
  - d) Larger urban area
- 36 How many seats are reserved in Panchayats for women members?
- a) Two third
  - b) One third
  - c) Half
  - d) One fourth

- 37 Kirpich Equation Method is used to estimate
- a) Population
  - b) Electricity energy load
  - c) Storm water runoff
  - d) Vehicle travel time
- 38 Fundamental element of sustainable neighbourhood is
- a) Pedestrian
  - b) Use of nuclear energy
  - c) Wildlife corridor
  - d) Electric charging points
- 39 Government of India's urban development program 'HRIDAY' stands for
- a) Heritage Rejuvenation Implementation Development Aayog Yojana
  - b) Heritage Review Implementation Development Augmentation Yojana
  - c) Heritage City Development and Augmentation Yojana
  - d) Heritage City Improvement and Development Aawas Yojana
- 40 The buildable area available on a plot of one hectare with FAR of 0.75 is
- a) 750 sqm
  - b) 7500 sqm
  - c) 10000 sqm
  - d) 75000 sqm
- 41 As per the norms of Pradhan Mantri Awas Yojana, a household is classified as Economically Weaker section if:
- a) Household's annual income is up to ₹ 1,00,000/-
  - b) Household's annual income is up to ₹ 3,00,000/-
  - c) Household's monthly income is up to ₹ 1,00,000/-
  - d) Household's monthly income is up to ₹ 3,00,000/-
- 42 A 'cul-de-sac' is a street with
- a) Dead end
  - b) Through traffic
  - c) Many junctions
  - d) Ring road
- 43 As per URDPFI Guidelines proposed Residential land use for medium urban centres is
- a) 45-50 %
  - b) 43-48 %
  - c) 36-39 %
  - d) 36-38 %

- 44 What does Punjab Regional and Town Planning Act say about the penalties for unauthorized development or construction?
- a) No penalties are mentioned in act
  - b) Penalties may include fines and imprisonment
  - c) Penalties are only applicable to commercial projects
  - d) Penalties are determined
- 45 BHUVAN provides \_\_\_\_\_ for public use
- a) Population Survey data
  - b) Census data
  - c) Satellite remote sensing data for public use
  - d) Manual survey data for land
- 46 As per Solid Waste Management Rules 2016, Bulk Waste Generator includes buildings that have average waste generation rate more than
- a) 75 Kg per day
  - b) 100 Kg per day
  - c) 125 Kg per day
  - d) 150 Kg per day
- 47 Green Blue policy proposed by Delhi Master Plan 2041 conceptualizes
- a) Water bodies and Land being interdependent
  - b) Water bodies and Land are independent
  - c) Water bodies and land generate economic activities
  - d) Water bodies and land promote cultural interactions
- 48 Minimum built up area to be given for LIG Unit is
- a) 30 Sqm
  - b) 40 Sqm
  - c) 45 Sqm
  - d) 60 Sqm
- 49 ECBC Norms are applicable to all types of new buildings or building complexes that have a connected load of
- a) 100 kW or greater
  - b) 200 kW or greater
  - c) 400 kW or greater
  - d) 500 kW or greater

- 50 Gini Coefficient Value 1 represents
- a) Equal equality and inequality
  - b) Perfect equality
  - c) More inequality
  - d) No inequality
- 51 In advocacy Planning
- a) The planner is provided with the opportunity to act as technician
  - b) The planner is provided with the opportunity to endorse the plan which he believes in
  - c) The planner is provided with the opportunity to modify the plan as per his choice
  - d) The planner is provided with the opportunity to prepare the plan as per administrator's choice
- 52 Among the following architect planners of foreign origin, the one who is NOT associated with an Indian City is:
- a) Otto Koenigsberger
  - b) Fry Otto
  - c) Edwin Lutyens
  - d) Le Corbusier
- 53 GRIHA rating system consists of \_\_\_\_\_ criteria categorized under various sections:
- a) 24
  - b) 34
  - c) 44
  - d) 543
- 54 SPSS is a software primarily used for
- a) GIS Analysis
  - b) Development plan analysis
  - c) Statistical analysis
  - d) Drawing Development Plans
- 55 3 Magnet theory was proposed by
- a) Ebenezer Howard
  - b) Patrick Geddes
  - c) Lewis Mumford
  - d) Le Corbusier
- 56 As per "V-7" concept of Le Corbusier, V7 is
- a) Outer ring road
  - b) Foot path
  - c) Sector road
  - d) Highway

- 57 Amritsar lies in which Seismic zone?
- a) Zone II
  - b) Zone III
  - c) Zone IV
  - d) Zone V
- 58 In case of residential apartments, effective floor area available for use within an apartment is known as
- a) Carpet Area
  - b) Built up area
  - c) Plinth area
  - d) Super built up area
- 59 Plan of New Delhi is in
- a) Linear Pattern
  - b) Finger Pattern
  - c) Grid Iron Pattern
  - d) Radial Pattern
- 60 Hazen & William's nomogram is used in
- a) Water supply distribution
  - b) Land use distribution
  - c) Density Distribution
  - d) Income distribution
- 61 Indus Valley Civilization is specially known for
- a) Vaulted Roofing systems
  - b) Underground drainage system
  - c) Great palaces
  - d) Exclusive land use
- 62 Minimum horizontal distance for any building from 33 KV electric line is
- a) 1.2 m
  - b) 1.5 m
  - c) 2.0 m
  - d) 2.5m
- 63 What is the purpose of a Travel Time and Delay Study?
- a) To evaluate the traffic stream
  - b) For survey data
  - c) To assess the quality of traffic movement
  - d) To assess the time taken to travel by various vehicles

- 64 What are the aspects that can be analyzed through a Figure-ground map?
- a) Block size and land use
  - b) Land use and Open spaces
  - c) Street pattern and Block size
  - d) Building details and Street pattern
- 65 Which of the following phenomena is not a natural hazard?
- a) Chemical contamination
  - b) Landslide
  - c) Wildfire
  - d) Lightning
- 66 Arrange the following Land use classifications in chronological order as per UDPFI guidelines.
- 1. Industrial
  - 2. Residential
  - 3. Public and Semi-Public
  - 4. Commercial
- a) 2 1 4 3
  - b) 2 4 1 3
  - c) 2 4 3 1
  - d) 2 3 4 1
- 67 Which of the following city can be called as Megalopolis?
- a) Kochi
  - b) Indore
  - c) Mumbai
  - d) Ahmadabad
- 68 Economic and Social Planning is in
- a) Union list
  - b) State list
  - c) Concurrent list
  - d) Local List

69 Consider the following statements.

1. Structural Plan is to serve as a planning tool which directs the growths and zones of planning, but is not as precise as the development plan
  2. Structural Plan is to serve as a planning tool which directs the growths and zones of planning and is as precise as the development plan
  3. Structural Plan is to serve as a spatial planning tool which directs the socio –economic growths and development of planning and is as precise as the development plan
- Which of the above statements is/are correct?

- a) 1 Only
- b) 1 and 2 Only
- c) 2 and 3 Only
- d) 1, 2 and 3

70 Land Acquisition, Rehabilitation and Resettlement (LARR) Act was passed in the year:

- a) 2011
- b) 2012
- c) 2013
- d) 2014

71 GRIHA refers to:

- a) Green Rating for International Habitat Assessment
- b) Green Rating for International Habitat Assessment
- c) Green Rating for Integrated Habitat Assessment
- d) Green Rating for International Habitat Accreditation

72 The economic growth is best defined as an increase in

- a) Money GDP
- b) Investment
- c) Real GDP per capita
- d) The HDI

73 Deforestation may reduce the chances of

- a) frequent cyclones
- b) rainfall
- c) frequent landslides
- d) erosion of soil surface

- 74 "Floor Area Ratio (FAR)" means
- a) the quotient obtained by dividing the total covered area on all floors by the area of the plot
  - b) the quotient obtained by multiplying the total covered area on all floors by the area of the plot
  - c) the quotient obtained by subtracting the total covered area on all floors by the area of the plot
  - d) quotient obtained by adding the total covered area on all floors and the area of the plot
- 75 The term "Sullage" refers to
- a) Liquid waste from kitchen and bathroom
  - b) Liquid waste from toilets
  - c) Liquid waste from industries
  - d) Liquid waste from oil refiners
- 76 What is the full form of "CLSS"?
- a) Credit Linked Security Scheme
  - b) Credit Linked Subsidy Scheme
  - c) Credit Linked Security Subsidy
  - d) Class Linked Subsidy Scheme
- 77 The minimum width of staircase for an institutional building shall be (as per NBC)
- a) 1.5 m
  - b) 2.0 m
  - c) 1.0 m
  - d) 2.5 m
- 78 TOD stands for
- a) Transit Oriented Development
  - b) Term Oriented Development
  - c) Transfer Of Development
  - d) Transit Operated Development
- 79 What should be the roof assembly U-Factor (W/ k) for ECBC compliant buildings- Hospitality >10000m<sup>2</sup> AGA
- a) 0.30
  - b) 0.25
  - c) 0.20
  - d) 0.35

80 RERA requires developers to register their projects with the regulatory authority if the project exceeds how many square meters?

- a) 500 sq. m
- b) 1000 sq. m
- c) 2000 sq. m
- d) 5000 sq. m

81 NITI Aayog stands for:

- a) National Institution for Transforming India
- b) National Institute for Transporting India
- c) National Institute for Training India
- d) National Institute for Traffic India

82 The settling velocity of a particle is 0.6 cm/s and the overflow rate of a horizontal clarifier is 0.8 cm/s. What percentage of particles is retained in the clarifier?

- a) 79%
- b) 82%
- c) 75%
- d) 88%

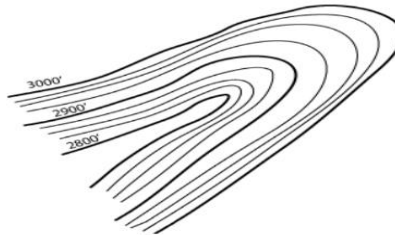
83 Choose the correct sequence of filtration processes used for sequential removal of particles.

- 1. Nanofiltration
- 2. Microfiltration
- 3. Ultrafiltration
- 4. Reverse Osmosis

Choose the correct sequence from the options given below

- a) 1, 2, 3, 4
- b) 3, 2, 1, 4
- c) 4, 3, 2, 1
- d) 2, 3, 1, 4

84 What kind of topographic landform is represented in the following illustration?



- a) Valley
- b) Ridge
- c) Hill
- d) Plain

- 85 Which Indian city was planned during Mughal period by Vidyadhar Bhattacharya?
- a) Kolkata
  - b) Madurai
  - c) Golkunda
  - d) Jaipur
- 86 Which of the following is the largest brackish water lagoon in Asia?
- a) Loktak Lakee
  - b) Chilika Lak
  - c) Wular Lake
  - d) Nal Sarovar
- 87 Which Article of 74<sup>th</sup> Constitutional Amendment Act provides for Constitution of Metropolitan Planning Committees?
- a) 234 ZE
  - b) 243 ZE
  - c) 247 ZE
  - d) 242 ZE
- 88 Arrange the following Mass Transport systems in terms of their carrying capacities starting with highest to lowest and choose the correct option
- 1. Metro Rail
  - 2. BRTS
  - 3. Tramway
  - 4. Monorail
- a) 1 2 3 4
  - b) 4 3 2 1
  - c) 1 4 3 2
  - d) 3 4 2 1
- 89 Sustainable Development Goals (SDG) have specific targets to be achieved by
- a) 2022
  - b) 2030
  - c) 2040
  - d) 2050
- 90 Golden Quadrilateral project in India relates to
- a) Railway transport project
  - b) Roadway transport project
  - c) Industrial corridor project
  - d) Waterway project

- 91 Right to vote and to be elected as representative in India is a  
 a) Political Right  
 b) Constitutional Right  
 c) Legal Right  
 d) None of the Above
- 92 Theme of the G-20 summit in 2023 is  
 a) Recover Together, Recover Stronger  
 b) People, Planet, Prosperity  
 c) One Earth, One family, One Future  
 d) Realising Opportunities of the 21st Century for all
- 93 Match List I with List II and choose the correct option from the codes given below the lists ;
- |    | List I (Dam)     | List II (River) |
|----|------------------|-----------------|
| A. | Nagarjuna sagar  | 1. Kaveri       |
| B. | Mettur           | 2. Narmada      |
| C. | Hirakud          | 3. Krishna      |
| D. | Indira sagar dam | 4. Mahanadi     |
- Code
- |    | A | B | C | D |
|----|---|---|---|---|
| a) | 1 | 4 | 2 | 3 |
| b) | 3 | 2 | 4 | 1 |
| c) | 3 | 1 | 4 | 2 |
| d) | 1 | 3 | 2 | 4 |
- 94 16<sup>th</sup> August 1946 was announced by the Muslim League as  
 a) Independence Day  
 b) Deliverance Day  
 c) Direct Action Day  
 d) Pakistan Day
- 95 The characteristic of sound by which we can distinguish between a shrill and a grave sound is known as  
 a) quality  
 b) intensity  
 c) loudness  
 d) pitch
- 96 Which of the following is the incorrect match?  
 a) August offer – Dominion States  
 b) Cripps proposals – Earliest possible realization of “Self- Government” in India  
 c) Wavell Plan – Formation of provisional Interim Government at the centre  
 d) Shimla Conference – Independence and Partition

- 97 After the decline of Napoleon, two French officers who joined Maharaja Ranjit Singh's service in 1822 were:
- a) Duke of Wellington and Marshal Blucher
  - b) Captain Allard and Ventura
  - c) Louis-Nicolas Davout and Jean Lafitte
  - d) Marcellin Marbot and Jean Danjou
- 98 Chandrayaan 3's Lander and Rover have been named as \_\_\_\_\_ and \_\_\_\_\_ respectively.
- a) Vikram, Satish
  - b) Vikram, Pragyan
  - c) Aditya, Sniper
  - d) Helios, Aditya
- 99 Most of the literary works under the patronage of Shri Guru Gobind Singh Ji were compiled at which of the following places?
- a) Anandpur Sahib
  - b) Chamkaur Sahib
  - c) Paonta Sahib
  - d) Hemkunt Sahib
- 100 FIFA Women's World Cup 2023 has been won by
- a) USA
  - b) England
  - c) Brazil
  - d) Spain
- 101 Ravi walks 6 km towards the North, then takes a left turn and walks 4 km. Finally, he takes another left turn and walks 6 km. In which direction is Ravi facing now?
- a) North
  - b) South
  - c) East
  - d) West
- 102 Three fourth of a number is 60 more than its one third. The number is
- a) 66
  - b) 144
  - c) 160
  - d) 120

- 103 If  $Z = 78$  and  $ACHE = 51$ , then  $TAKE$  will be equal to
- a) 121
  - b) 118
  - c) 124
  - d) 111
- 104 X can complete a work in 15 days and Y can complete the same work in 12 days. If they work alternatively for a day each, starting with X, how many days will they take to complete the work?
- a) 17.2
  - b) 22.6
  - c) 24.8
  - d) 13.4
- 105 The ratio of the areas of two squares is 4:9. What is the ratio of their perimeters?
- a) 1:2
  - b) 2:3
  - c) 3:4
  - d) 4:5
- 106 What was the day of the week on 17th August, 2010?
- a) Sunday
  - b) Wednesday
  - c) Tuesday
  - d) Friday
- 107 Fact 1: All cricketers like to be all-rounder.  
Fact 2: Some cricketers like bowling.  
Fact 3: Some cricketers like batting.
- If the first three statements are facts, which of the following statements must also be a fact?
- I: All cricketers who like bowling like batting.
  - II: Cricketers who like bowling also like to be all-rounder.
  - III: Cricketers who like to be all-rounder do not like batting.
- a) I only
  - b) II only
  - c) II and III only
  - d) None of the statement is a known fact

- 108 A shopkeeper sells one refrigerator for Rs. 72000 at a profit of 20% and another for Rs. 57000 at a loss of 5%. His total profit or loss in rupees is
- a) 9000 profit
  - b) 7000 loss
  - c) 8500 profit
  - d) 5100 profit
- 109 There are four bells in a temple which ring at an interval of 2, 8, 10 and 12 seconds respectively. In one hour how many times do they ring together?
- a) 50
  - b) 30
  - c) 31
  - d) 15
- 110 Identify the wrong number in the series: 3, 8, 18, 38, 80, 158
- a) 8
  - b) 80
  - c) 38
  - d) 158
- 111 'ਇੱਕ ਪਰਚੇਜ਼ ਤੇ \_\_\_\_ ਹਕੀਮ' ਅਖਾਣ ਪੂਰਾ ਕਰੋ :
- a) ਦੋ
  - b) ਸਿਆਣਾ
  - c) ਮੂਰਖ
  - d) ਸੈ
- 112 ਨਿਮਨ ਲਿਖਤ ਸ਼ਬਦਾਂ ਵਿੱਚੋਂ ਕਿਹੜਾ ਸ਼ਬਦ ਸੁੱਧ ਰੂਪ ਵਿੱਚ ਹੈ?
- a) ਆਯਾ
  - b) ਭਗਤਿ
  - c) ਮਿਹਨਤ
  - d) ਮੇਹਨਤ
- 113 ਕਿਹੜਾ ਸ਼ਬਦ 'ਕ' ਅਗੇਤਰ ਨਾਲ ਬਣਿਆ ਹੈ:
- a) ਕਮਜ਼ੋਰ
  - b) ਕਮਅਕਲ
  - c) ਕਾਰਖਾਨਾ
  - d) ਕਬੋਲ

114 'ਜੋੜਨੀ' ਦਾ ਚਿੰਨ੍ਹ ਕਿਹੜਾ ਹੈ:

- a) -
- b) —
- c) :-
- d) :

115 'Civilization' ਸ਼ਬਦ ਦਾ ਪੰਜਾਬੀ ਰੂਪ ਹੈ:

- a) ਕਲਚਰ
- b) ਸਭਿਆਚਾਰ
- c) ਸਭਿਅਤਾ
- d) ਸੰਸਕ੍ਰਿਤੀ

116 September ਦਾ ਸ਼ੁੱਧ ਪੰਜਾਬੀ ਰੂਪ ਹੈ:

- a) ਸਤੰਮਬਰ
- b) ਸੈਪਟੈਮਬਰ
- c) ਸਤੰਬਰ
- d) ਸੈਪਟ ਐਂਬਰ

117 ਕਿਉਂਜੋ ਮੀਂਹ ਵਹਿੰਦਾ ਰਿਹਾ, ਅਸੀਂ ਪਿਕਨਿਕ 'ਤੇ ਨਹੀਂ ਜਾ ਸਕੇ' ਵਾਕ ਵਿੱਚ ਯੋਜਕ ਦੀ ਪਛਾਣ ਕਰੋ:

- a) ਵਹਿੰਦਾ
- b) ਪਿਕਨਿਕ
- c) ਅਸੀਂ
- d) ਕਿਉਂਜੋ

118 ਪੰਜਾਬ ਵਿੱਚ ਦੇਸ਼ ਭਗਤ ਸਿੰਘ ਯਾਦਗਾਰ ਹਾਲ ਕਿੱਥੇ ਸਥਿਤ ਹੈ?

- a) ਚੰਡੀਗੜ੍ਹ
- b) ਜਲੰਧਰ
- c) ਲੁਧਿਆਣਾ
- d) ਪਟਿਆਲਾ

119 ਇਹਨਾਂ ਵਿਚੋਂ ਕਿਹੜੀ ਰੀਤ ਵਿਆਹ ਨਾਲ ਸੰਬੰਧਤ ਨਹੀਂ ਹੈ?

- a) ਧੋਲ ਉਡਾਣਾ
- b) ਮਾਈਏ ਪਾਉਣਾ
- c) ਚੱਕੀਆਂ ਲਾਉਣਾ
- d) ਬਕਲੀਆਂ ਵੰਡਣਾ

120 'ਤੀਆਂ ਦਾ ਤਿਉਹਾਰ' ਕਿਹੜੇ ਮਹੀਨੇ ਮਨਾਇਆ ਜਾਂਦਾ ਹੈ?

- a) ਅੱਸੂ
- b) ਭਾਦੋਂ
- c) ਸਾਉਣ
- d) ਹਾੜ

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# **SPACE FOR ROUGH WORK**

# PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Sept-2023) for Recruitment to the Post of Assistant Town Planner (Group A) in the Department of Town & Country Planning, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120  
Time Allowed: 2 Hours

Candidate's Name \_\_\_\_\_

Father's Name \_\_\_\_\_

Date of Birth 

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DD MM YYYY

OMR Response Sheet No. \_\_\_\_\_

Roll No. \_\_\_\_\_

Candidate's Signature (Please sign in the box)

--

Question  
Booklet Set

**B**

Booklet Series

## INSTRUCTIONS

1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately.
2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of Ink pen or any other pen is not allowed.
3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.
5. The question paper booklet has 23 pages.
6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
7. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.
8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet.
9. There is negative marking (1 mark for each question) for questions wrongly answered by the candidate.
10. Use of Electronic/Manual Calculator is prohibited.
11. The candidate **MUST READ INSTRUCTIONS BEHIND THE OMR SHEET** before answering the questions and check that two carbon copies attached to the OMR sheet are intact.

- 1 'ਇੱਕ ਪਰਹੇਜ਼ ਤੇ \_\_\_ ਹਕੀਮ' ਅਖਾਣ ਪੂਰਾ ਕਰੋ :
- a) ਦੇ
  - b) ਸਿਆਣਾ
  - c) ਮੂਰਖ
  - d) ਸੌ
- 2 ਨਿਮਨ ਲਿਖਤ ਸ਼ਬਦਾਂ ਵਿੱਚੋਂ ਕਿਹੜਾ ਸ਼ਬਦ ਸੁੱਧ ਰੂਪ ਵਿੱਚ ਹੈ?
- a) ਆਯਾ
  - b) ਭਗਤਿ
  - c) ਮਿਹਨਤ
  - d) ਮੇਹਨਤ
- 3 ਕਿਹੜਾ ਸ਼ਬਦ 'ਕ' ਅਗੇਤਰ ਨਾਲ ਬਣਿਆ ਹੈ:
- a) ਕਮਜ਼ੋਰ
  - b) ਕਮਅਕਲ
  - c) ਕਾਰਖਾਨਾ
  - d) ਕਬੋਲ
- 4 'ਜੋੜਨੀ' ਦਾ ਚਿੰਨ੍ਹ ਕਿਹੜਾ ਹੈ:
- a) -
  - b) —
  - c) :-
  - d) :
- 5 'Civilization' ਸ਼ਬਦ ਦਾ ਪੰਜਾਬੀ ਰੂਪ ਹੈ:
- a) ਕਲਚਰ
  - b) ਸਭਿਆਚਾਰ
  - c) ਸਭਿਅਤਾ
  - d) ਸੰਸਕ੍ਰਿਤੀ

- 6 September ਦਾ ਸ਼ੁੱਧ ਪੰਜਾਬੀ ਰੂਪ ਹੈ:
- a) ਸਤੰਮਬਰ
  - b) ਸੈਪਟੈਮਬਰ
  - c) ਸਤੰਬਰ
  - d) ਸੈਪਟ ਐਂਬਰ
- 7 ਕਿਉਂਜੇ ਮੀਂਹ ਵਹਿੰਦਾ ਰਿਹਾ, ਅਸੀਂ ਪਿਕਨਿਕ 'ਤੇ ਨਹੀਂ ਜਾ ਸਕੇ' ਵਾਕ ਵਿੱਚ ਯੋਜਕ ਦੀ ਪਛਾਣ ਕਰੋ:
- a) ਵਹਿੰਦਾ
  - b) ਪਿਕਨਿਕ
  - c) ਅਸੀਂ
  - d) ਕਿਉਂਜੇ
- 8 ਪੰਜਾਬ ਵਿੱਚ ਦੇਸ਼ ਭਗਤ ਸਿੰਘ ਯਾਦਗਾਰ ਹਾਲ ਕਿੱਥੇ ਸਥਿਤ ਹੈ?
- a) ਚੰਡੀਗੜ੍ਹ
  - b) ਜਲੰਧਰ
  - c) ਲੁਧਿਆਣਾ
  - d) ਪਟਿਆਲਾ
- 9 ਇਹਨਾਂ ਵਿੱਚੋਂ ਕਿਹੜੀ ਰੀਤ ਵਿਆਹ ਨਾਲ ਸੰਬੰਧਤ ਨਹੀਂ ਹੈ?
- a) ਧੋਲ ਉਡਾਣਾ
  - b) ਮਾਈਏ ਪਾਉਣਾ
  - c) ਚੱਕੀਆਂ ਲਾਉਣਾ
  - d) ਬਕਲੀਆਂ ਵੰਡਣਾ
- 10 'ਤੀਆਂ ਦਾ ਤਿਉਹਾਰ' ਕਿਹੜੇ ਮਹੀਨੇ ਮਨਾਇਆ ਜਾਂਦਾ ਹੈ?
- a) ਅੱਸੂ
  - b) ਭਾਦੋਂ
  - c) ਸਾਉਣ
  - d) ਹਾੜ

- 11 Tony Garnier was a French architect, city planner and socialist who planned modern cities in detail according to requirements of
- a) Industrial City Model
  - b) Residential City Model
  - c) Commercial City Model
  - d) Institutional City Model
- 12 Which is an economical model created by Chauncy Harris and Edward Ullman in the 1945 article "The Nature of Cities"?
- a) Concentric Zone Theory
  - b) Sector Theory
  - c) Multiple Nuclei Theory
  - d) Fused Growth Theory
- 13 As per classification of Urban Settlement adopted for URDPFI guidelines, a large city has population range
- a) 1 to 5 lakh
  - b) 5 to 10 lakh
  - c) 10 to 15 lakh
  - d) 15 to 20 lakh
- 14 In E-Governance G2B means
- a) Government to Branches
  - b) Government to Business
  - c) Government to Buildings
  - d) Government to Bookings
- 15 Which of the following is not considered as a satellite town?
- a) Gurgaon
  - b) Noida
  - c) Navi Mumbai
  - d) Gwalior
- 16 The K-7 principle in Central Place theory relates to
- a) Administrative principle
  - b) Marketing principle
  - c) Transport principle
  - d) Sustainability principle

- 17 Patrick Geddes Triad explains the relationship amongst which of the following?
- a) Folk, Work & Leisure
  - b) Folk, Space & Shelter
  - c) Folk , Place & Work
  - d) Folk , Form & culture
- 18 Hilly Area as per National Building Code has been defined, which is above
- a) 500m above mean sea level
  - b) 600m above mean sea level
  - c) 700m above mean sea level
  - d) 800m above mean sea level
- 19 Pick the incorrect statement for Sustainable Waste Management
- a) Door to door waste collection
  - b) Segregation at the household level
  - c) Recycling of waste done at decentralized, say, ward or even lower level
  - d) All wastes to be dumped in landfill sites
- 20 “Pan city development” is part of
- a) Digital India Mission
  - b) Swachh Bharat Mission
  - c) Atal Innovation Mission
  - d) Smart Cities Mission
- 21 NUIS scheme base & Urban thematic GIS data base is available on
- a) 1:10,000 scale
  - b) 1:20,000 scale
  - c) 1:30,000 scale
  - d) 1:40,000 scale
- 22 Open strip of land on the periphery of a town for the purpose of limiting the growth is known as
- a) Green belt
  - b) Focal point
  - c) Cul-de-sac
  - d) Conurbation

- 23 As per Solid Waste Management Rules, 2016, the landfill site shall be large enough to last for at least
- a) 05 - 10 Years
  - b) 10 - 15 years
  - c) 20 - 25 years
  - d) 30 - 50 Years
- 24 How many sustainable development goals (SDG) have been formulated by United Nations in 2015?
- a) 11
  - b) 15
  - c) 17
  - d) 19
- 25 Which of the following has highest passenger car unit (PCU)?
- a) Horse drawn cart
  - b) Auto rickshaw
  - c) Bullock cart
  - d) Cycle rickshaw
- 26 Which of the following is not a zoning method?
- a) Height
  - b) Character
  - c) Accessibility
  - d) Density
- 27 Which of the following is not a mechanism for land assembly techniques?
- a) Land Pooling
  - b) Land Acquisition
  - c) Land Reservations
  - d) Land Society
- 28 Which scheme is based on Government of India's vision for "Slum free India"?
- a) Rajiv Awas Yojna, 2011
  - b) JNNURM
  - c) AMRUT
  - d) JJM

- 29 Central Slum Area (Clearance & Improvement) Act was formulated in which one of the following year?
- a) 1952
  - b) 1956
  - c) 1960
  - d) 1964
- 30 Which Vertical is not implemented through PMAY-U scheme?
- a) Infrastructure Rejuvenation Construction (IRC)
  - b) Affordable Housing in Partnership (AHP)
  - c) In-Situ Slum Redevelopment (ISSR)
  - d) Credit Linked Subsidy Scheme (CLSS).
- 31 Minimum area of a habitable room in a single room dwelling size shall be (as per NBC)
- a) 7.5 sq.m
  - b) 8.5 sq.m
  - c) 9.5 sq.m
  - d) 10.5 sq.m
- 32 A new housing price index RESIDEX has been launched by-
- a) HDFC
  - b) NITI AYOG
  - c) NHB
  - d) HUDCO
- 33 Minimum built up area (excluding parking, basement area, and typical structures) requirement to be eligible for certification under GRIHA v.2019 for new construction projects is
- a) 2000 sqm
  - b) 2500 sqm
  - c) 3000 sqm
  - d) 3500 sqm
- 34 The number of cities selected under smart cities initiatives in India are
- a) 96
  - b) 100
  - c) 20
  - d) 95

- 35 Occupancy rate is equal to
- a) Population Density / Accommodation Density
  - b) Population Density + Accommodation Density
  - c) Population Density - Accommodation Density
  - d) Population Density  $\times$  Accommodation Density
- 36 As per Punjab building byelaws, the scale of building plans, sections and elevations for submission drawings shall be
- a) 1:100
  - b) 1:200
  - c) 1:300
  - d) 1:400
- 37 LEED certification is a
- a) Green building rating
  - b) Green city rating
  - c) Smart city rating
  - d) Green development ranks
- 38 Urban Service Level Benchmarking (SLB) initiative covers which of the following sectors?
- a) Water supply, wastewater, solid waste management and storm water drainage
  - b) Water supply, wastewater, disaster management and storm water drainage
  - c) Water supply, wastewater, solid waste management and land Management
  - d) Water supply, wastewater, plastic waste management and storm water drainage
- 39 Which is not the aim of landfill design?
- a) To minimize ingress of water
  - b) To maximize the production of leachate
  - c) To minimize uncontrolled release of landfill gases in the atmosphere
  - d) To maximize the production of bacteria
- 40 As per Indian Standard organization, PH value range of Potable water shall be-
- a) 4.5-5.5
  - b) 5.5-6.5
  - c) 6.5-8.5
  - d) 5.5-7.5

- 41 Which statement according to National Water Policy, 2012 by Ministry of Water Resources, stands true?
- a) Urban water supply and sewage treatment must be disintegrated
  - b) High water intensive sanitation and sewerage systems must be designed
  - c) Centralized sewage treatment plants should be incentivized
  - d) Water reuse must be encouraged in urban settlements
- 42 As per seismic zoning map of India, zones which are more vulnerable to earthquakes are
- a) Zone I&II
  - b) Zone II&III
  - c) Zone III&IV
  - d) Zone IV&V
- 43 What is the theme of Earth day 2023?
- a) Protect our species
  - b) Invest in our planet
  - c) Restore our earth
  - d) Climate action
- 44 AMASR Act, 2010, deals with
- a) Slum Redevelopment
  - b) Protection of Heritage sites
  - c) Protection of Natural habitats
  - d) Industrial development
- 45 As per 74<sup>th</sup> Amendment Act, a Nagar Panchayat shall be constituted for
- a) Smaller Urban Area
  - b) Rural Area
  - c) Area in transition from rural to urban area
  - d) Larger urban area
- 46 How many seats are reserved in Panchayats for women members?
- a) Two third
  - b) One third
  - c) Half
  - d) One fourth

- 47 Kirpich Equation Method is used to estimate
- a) Population
  - b) Electricity energy load
  - c) Storm water runoff
  - d) Vehicle travel time
- 48 Fundamental element of sustainable neighbourhood is
- a) Pedestrian
  - b) Use of nuclear energy
  - c) Wildlife corridor
  - d) Electric charging points
- 49 Government of India's urban development program 'HRIDAY' stands for
- a) Heritage Rejuvenation Implementation Development Aayog Yojana
  - b) Heritage Review Implementation Development Augmentation Yojana
  - c) Heritage City Development and Augmentation Yojana
  - d) Heritage City Improvement and Development Aawas Yojana
- 50 The buildable area available on a plot of one hectare with FAR of 0.75 is
- a) 750 sqm
  - b) 7500 sqm
  - c) 10000 sqm
  - d) 75000 sqm
- 51 As per the norms of Pradhan Mantri Awas Yojana, a household is classified as Economically Weaker section if:
- a) Household's annual income is up to ₹ 1,00,000/-
  - b) Household's annual income is up to ₹ 3,00,000/-
  - c) Household's monthly income is up to ₹ 1,00,000/-
  - d) Household's monthly income is up to ₹ 3,00,000/-
- 52 A 'cul-de-sac' is a street with
- a) Dead end
  - b) Through traffic
  - c) Many junctions
  - d) Ring road
- 53 As per URDPFI Guidelines proposed Residential land use for medium urban centres is
- a) 45-50 %
  - b) 43-48 %
  - c) 36-39 %
  - d) 36-38 %

- 54 What does Punjab Regional and Town Planning Act say about the penalties for unauthorized development or construction?
- a) No penalties are mentioned in act
  - b) Penalties may include fines and imprisonment
  - c) Penalties are only applicable to commercial projects
  - d) Penalties are determined
- 55 BHUVAN provides \_\_\_\_\_ for public use
- a) Population Survey data
  - b) Census data
  - c) Satellite remote sensing data for public use
  - d) Manual survey data for land
- 56 As per Solid Waste Management Rules 2016, Bulk Waste Generator includes buildings that have average waste generation rate more than
- a) 75 Kg per day
  - b) 100 Kg per day
  - c) 125 Kg per day
  - d) 150 Kg per day
- 57 Green Blue policy proposed by Delhi Master Plan 2041 conceptualizes
- a) Water bodies and Land being interdependent
  - b) Water bodies and Land are independent
  - c) Water bodies and land generate economic activities
  - d) Water bodies and land promote cultural interactions
- 58 Minimum built up area to be given for LIG Unit is
- a) 30 Sqm
  - b) 40 Sqm
  - c) 45 Sqm
  - d) 60 Sqm
- 59 ECBC Norms are applicable to all types of new buildings or building complexes that have a connected load of
- a) 100 kW or greater
  - b) 200 kW or greater
  - c) 400 kW or greater
  - d) 500 kW or greater

- 60 Gini Coefficient Value 1 represents
- a) Equal equality and inequality
  - b) Perfect equality
  - c) More inequality
  - d) No inequality
- 61 In advocacy Planning
- a) The planner is provided with the opportunity to act as technician
  - b) The planner is provided with the opportunity to endorse the plan which he believes in
  - c) The planner is provided with the opportunity to modify the plan as per his choice
  - d) The planner is provided with the opportunity to prepare the plan as per administrator's choice
- 62 Among the following architect planners of foreign origin, the one who is NOT associated with an Indian City is:
- a) Otto Koenigsberger
  - b) Fry Otto
  - c) Edwin Lutyens
  - d) Le Corbusier
- 63 GRIHA rating system consists of \_\_\_\_\_ criteria categorized under various sections:
- a) 24
  - b) 34
  - c) 44
  - d) 543
- 64 SPSS is a software primarily used for
- a) GIS Analysis
  - b) Development plan analysis
  - c) Statistical analysis
  - d) Drawing Development Plans
- 65 3 Magnet theory was proposed by
- a) Ebenezer Howard
  - b) Patrick Geddes
  - c) Lewis Mumford
  - d) Le Corbusier

- 66 As per “V-7” concept of Le Corbusier, V7 is
- a) Outer ring road
  - b) Foot path
  - c) Sector road
  - d) Highway
- 67 Amritsar lies in which Seismic zone?
- a) Zone II
  - b) Zone III
  - c) Zone IV
  - d) Zone V
- 68 In case of residential apartments, effective floor area available for use within an apartment is known as
- a) Carpet Area
  - b) Built up area
  - c) Plinth area
  - d) Super built up area
- 69 Plan of New Delhi is in
- a) Linear Pattern
  - b) Finger Pattern
  - c) Grid Iron Pattern
  - d) Radial Pattern
- 70 Hazen & William's nomogram is used in
- a) Water supply distribution
  - b) Land use distribution
  - c) Density Distribution
  - d) Income distribution
- 71 Indus Valley Civilization is specially known for
- a) Vaulted Roofing systems
  - b) Underground drainage system
  - c) Great palaces
  - d) Exclusive land use
- 72 Minimum horizontal distance for any building from 33 KV electric line is
- a) 1.2 m
  - b) 1.5 m
  - c) 2.0 m
  - d) 2.5m

- 73 What is the purpose of a Travel Time and Delay Study?
- a) To evaluate the traffic stream
  - b) For survey data
  - c) To assess the quality of traffic movement
  - d) To assess the time taken to travel by various vehicles
- 74 What are the aspects that can be analyzed through a Figure-ground map?
- a) Block size and land use
  - b) Land use and Open spaces
  - c) Street pattern and Block size
  - d) Building details and Street pattern
- 75 Which of the following phenomena is not a natural hazard?
- a) Chemical contamination
  - b) Landslide
  - c) Wildfire
  - d) Lightning
- 76 Arrange the following Land use classifications in chronological order as per UDPFI guidelines.
- 1. Industrial
  - 2. Residential
  - 3. Public and Semi-Public
  - 4. Commercial
- a) 2 1 4 3
  - b) 2 4 1 3
  - c) 2 4 3 1
  - d) 2 3 4 1
- 77 Which of the following city can be called as Megalopolis?
- a) Kochi
  - b) Indore
  - c) Mumbai
  - d) Ahmadabad
- 78 Economic and Social Planning is in
- a) Union list
  - b) State list
  - c) Concurrent list
  - d) Local List

79 Consider the following statements.

1. Structural Plan is to serve as a planning tool which directs the growths and zones of planning, but is not as precise as the development plan
  2. Structural Plan is to serve as a planning tool which directs the growths and zones of planning and is as precise as the development plan
  3. Structural Plan is to serve as a spatial planning tool which directs the socio –economic growths and development of planning and is as precise as the development plan
- Which of the above statements is/are correct?

- a) 1 Only
- b) 1 and 2 Only
- c) 2 and 3 Only
- d) 1, 2 and 3

80 Land Acquisition, Rehabilitation and Resettlement (LARR) Act was passed in the year:

- a) 2011
- b) 2012
- c) 2013
- d) 2014

81 GRIHA refers to:

- a) Green Rating for International Habitat Assessment
- b) Green Rating for International Habitat Assessment
- c) Green Rating for Integrated Habitat Assessment
- d) Green Rating for International Habitat Accreditation

82 The economic growth is best defined as an increase in

- a) Money GDP
- b) Investment
- c) Real GDP per capita
- d) The HDI

83 Deforestation may reduce the chances of

- a) frequent cyclones
- b) rainfall
- c) frequent landslides
- d) erosion of soil surface

- 84 "Floor Area Ratio (FAR)" means
- a) the quotient obtained by dividing the total covered area on all floors by the area of the plot
  - b) the quotient obtained by multiplying the total covered area on all floors by the area of the plot
  - c) the quotient obtained by subtracting the total covered area on all floors by the area of the plot
  - d) quotient obtained by adding the total covered area on all floors and the area of the plot
- 85 The term "Sullage" refers to
- a) Liquid waste from kitchen and bathroom
  - b) Liquid waste from toilets
  - c) Liquid waste from industries
  - d) Liquid waste from oil refiners
- 86 What is the full form of "CLSS"?
- a) Credit Linked Security Scheme
  - b) Credit Linked Subsidy Scheme
  - c) Credit Linked Security Subsidy
  - d) Class Linked Subsidy Scheme
- 87 The minimum width of staircase for an institutional building shall be (as per NBC)
- a) 1.5 m
  - b) 2.0 m
  - c) 1.0 m
  - d) 2.5 m
- 88 TOD stands for
- a) Transit Oriented Development
  - b) Term Oriented Development
  - c) Transfer Of Development
  - d) Transit Operated Development
- 89 What should be the roof assembly U-Factor ( $W/k$ ) for ECBC compliant buildings-Hospitality  $>10000m^2$  AGA
- a) 0.30
  - b) 0.25
  - c) 0.20
  - d) 0.35

90 RERA requires developers to register their projects with the regulatory authority if the project exceeds how many square meters?

- a) 500 sq. m
- b) 1000 sq. m
- c) 2000 sq. m
- d) 5000 sq. m

91 NITI Aayog stands for:

- a) National Institution for Transforming India
- b) National Institute for Transporting India
- c) National Institute for Training India
- d) National Institute for Traffic India

92 The settling velocity of a particle is 0.6 cm/s and the overflow rate of a horizontal clarifier is 0.8 cm/s. What percentage of particles is retained in the clarifier?

- a) 79%
- b) 82%
- c) 75%
- d) 88%

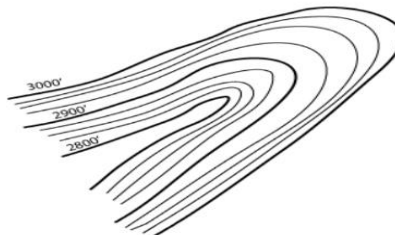
93 Choose the correct sequence of filtration processes used for sequential removal of particles.

- 1. Nanofiltration
- 2. Microfiltration
- 3. Ultrafiltration
- 4. Reverse Osmosis

Choose the correct sequence from the options given below

- a) 1, 2, 3, 4
- b) 3, 2, 1, 4
- c) 4, 3, 2, 1
- d) 2, 3, 1, 4

94 What kind of topographic landform is represented in the following illustration?



- a) Valley
- b) Ridge
- c) Hill
- d) Plain

- 95 Which Indian city was planned during Mughal period by Vidyadhar Bhattacharya?
- a) Kolkata
  - b) Madurai
  - c) Golkunda
  - d) Jaipur
- 96 Which of the following is the largest brackish water lagoon in Asia?
- a) Loktak Lakee
  - b) Chilika Lak
  - c) Wular Lake
  - d) Nal Sarovar
- 97 Which Article of 74<sup>th</sup> Constitutional Amendment Act provides for Constitution of Metropolitan Planning Committees?
- a) 234 ZE
  - b) 243 ZE
  - c) 247 ZE
  - d) 242 ZE
- 98 Arrange the following Mass Transport systems in terms of their carrying capacities starting with highest to lowest and choose the correct option
- 1. Metro Rail
  - 2. BRTS
  - 3. Tramway
  - 4. Monorail
- a) 1 2 3 4
  - b) 4 3 2 1
  - c) 1 4 3 2
  - d) 3 4 2 1
- 99 Sustainable Development Goals (SDG) have specific targets to be achieved by
- a) 2022
  - b) 2030
  - c) 2040
  - d) 2050
- 100 Golden Quadrilateral project in India relates to
- a) Railway transport project
  - b) Roadway transport project
  - c) Industrial corridor project
  - d) Waterway project

- 101 Right to vote and to be elected as representative in India is a  
 a) Political Right  
 b) Constitutional Right  
 c) Legal Right  
 d) None of the Above
- 102 Theme of the G-20 summit in 2023 is  
 a) Recover Together, Recover Stronger  
 b) People, Planet, Prosperity  
 c) One Earth, One family, One Future  
 d) Realising Opportunities of the 21st Century for all
- 103 Match List I with List II and choose the correct option from the codes given below the lists ;
- |  | List I (Dam) |                  | List II (River) |          |
|--|--------------|------------------|-----------------|----------|
|  | A.           | Nagarjuna sagar  | 1.              | Kaveri   |
|  | B.           | Mettur           | 2.              | Narmada  |
|  | C.           | Hirakud          | 3.              | Krishna  |
|  | D.           | Indira sagar dam | 4.              | Mahanadi |
- Code
- |    | A | B | C | D |
|----|---|---|---|---|
| a) | 1 | 4 | 2 | 3 |
| b) | 3 | 2 | 4 | 1 |
| c) | 3 | 1 | 4 | 2 |
| d) | 1 | 3 | 2 | 4 |
- 104 16<sup>th</sup> August 1946 was announced by the Muslim League as  
 a) Independence Day  
 b) Deliverance Day  
 c) Direct Action Day  
 d) Pakistan Day
- 105 The characteristic of sound by which we can distinguish between a shrill and a grave sound is known as  
 a) quality  
 b) intensity  
 c) loudness  
 d) pitch
- 106 Which of the following is the incorrect match?  
 a) August offer – Dominion States  
 b) Cripps proposals – Earliest possible realization of “Self- Government” in India  
 c) Wavell Plan – Formation of provisional Interim Government at the centre  
 d) Shimla Conference – Independence and Partition

- 107 After the decline of Napoleon, two French officers who joined Maharaja Ranjit Singh's service in 1822 were:
- a) Duke of Wellington and Marshal Blucher
  - b) Captain Allard and Ventura
  - c) Louis-Nicolas Davout and Jean Lafitte
  - d) Marcellin Marbot and Jean Danjou
- 108 Chandrayaan 3's Lander and Rover have been named as \_\_\_\_\_ and \_\_\_\_\_ respectively.
- a) Vikram, Satish
  - b) Vikram, Pragyan
  - c) Aditya, Sniper
  - d) Helios, Aditya
- 109 Most of the literary works under the patronage of Shri Guru Gobind Singh Ji were compiled at which of the following places?
- a) Anandpur Sahib
  - b) Chamkaur Sahib
  - c) Paonta Sahib
  - d) Hemkunt Sahib
- 110 FIFA Women's World Cup 2023 has been won by
- a) USA
  - b) England
  - c) Brazil
  - d) Spain
- 111 Ravi walks 6 km towards the North, then takes a left turn and walks 4 km. Finally, he takes another left turn and walks 6 km. In which direction is Ravi facing now?
- a) North
  - b) South
  - c) East
  - d) West
- 112 Three fourth of a number is 60 more than its one third. The number is
- a) 66
  - b) 144
  - c) 160
  - d) 120

- 113 If  $Z = 78$  and  $ACHE = 51$ , then  $TAKE$  will be equal to
- a) 121
  - b) 118
  - c) 124
  - d) 111
- 114 X can complete a work in 15 days and Y can complete the same work in 12 days. If they work alternatively for a day each, starting with X, how many days will they take to complete the work?
- a) 17.2
  - b) 22.6
  - c) 24.8
  - d) 13.4
- 115 The ratio of the areas of two squares is 4:9. What is the ratio of their perimeters?
- a) 1:2
  - b) 2:3
  - c) 3:4
  - d) 4:5
- 116 What was the day of the week on 17th August, 2010?
- a) Sunday
  - b) Wednesday
  - c) Tuesday
  - d) Friday
- 117 Fact 1: All cricketers like to be all-rounder.  
Fact 2: Some cricketers like bowling.  
Fact 3: Some cricketers like batting.
- If the first three statements are facts, which of the following statements must also be a fact?
- I: All cricketers who like bowling like batting.
  - II: Cricketers who like bowling also like to be all-rounder.
  - III: Cricketers who like to be all-rounder do not like batting.
- a) I only
  - b) II only
  - c) II and III only
  - d) None of the statement is a known fact

- 118 A shopkeeper sells one refrigerator for Rs. 72000 at a profit of 20% and another for Rs. 57000 at a loss of 5%. His total profit or loss in rupees is
- a) 9000 profit
  - b) 7000 loss
  - c) 8500 profit
  - d) 5100 profit
- 119 There are four bells in a temple which ring at an interval of 2, 8, 10 and 12 seconds respectively. In one hour how many times do they ring together?
- a) 50
  - b) 30
  - c) 31
  - d) 15
- 120 Identify the wrong number in the series: 3, 8, 18, 38, 80, 158
- a) 8
  - b) 80
  - c) 38
  - d) 158

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# **SPACE FOR ROUGH WORK**

# PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Sept-2023) for Recruitment to the Post of Assistant Town Planner (Group A) in the Department of Town & Country Planning, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120  
Time Allowed: 2 Hours

Candidate's Name \_\_\_\_\_

Father's Name \_\_\_\_\_

Date of Birth          
DD MM YYYY

OMR Response Sheet No. \_\_\_\_\_

Roll No. \_\_\_\_\_

Candidate's Signature (Please sign in the box)

Question  
Booklet Set

C

Booklet Series

## INSTRUCTIONS

1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately.
2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of Ink pen or any other pen is not allowed.
3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.
5. The question paper booklet has 23 pages.
6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
7. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.
8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet.
9. There is negative marking (1 mark for each question) for questions wrongly answered by the candidate.
10. Use of Electronic/Manual Calculator is prohibited.
11. The candidate **MUST READ INSTRUCTIONS BEHIND THE OMR SHEET** before answering the questions and check that two carbon copies attached to the OMR sheet are intact.

- 1 Ravi walks 6 km towards the North, then takes a left turn and walks 4 km. Finally, he takes another left turn and walks 6 km. In which direction is Ravi facing now?
  - a) North
  - b) South
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b) 7000 loss  
c) 8500 profit  
d) 5100 profit

- 9 There are four bells in a temple which ring at an interval of 2, 8, 10 and 12 seconds respectively. In one hour how many times do they ring together?

- a) 50  
b) 30  
c) 31  
d) 15

- 10 Identify the wrong number in the series: 3, 8, 18, 38, 80, 158

- a) 8  
b) 80  
c) 38  
d) 158

- 11 'ਇੱਕ ਪਰਹੇਜ਼ ਤੇ \_\_\_ ਹਕੀਮ' ਅਖਾਣ ਪੂਰਾ ਕਰੋ :

- a) ਦੇ  
b) ਸਿਆਣਾ  
c) ਮੂਰਖ  
d) ਸੈ

12 ਨਿਮਨ ਲਿਖਤ ਸ਼ਬਦਾਂ ਵਿੱਚੋਂ ਕਿਹੜਾ ਸ਼ਬਦ ਸ਼ੁੱਧ ਰੂਪ ਵਿੱਚ ਹੈ?

- a) ਆਯਾ
- b) ਭਗਤਿ
- c) ਮਿਹਨਤ
- d) ਮੇਹਨਤ

13 ਕਿਹੜਾ ਸ਼ਬਦ 'ਕ' ਅਗੇਤਰ ਨਾਲ ਬਣਿਆ ਹੈ:

- a) ਕਮਜ਼ੋਰ
- b) ਕਮਅਕਲ
- c) ਕਾਰਖਾਨਾ
- d) ਕਬੋਲ

14 'ਜੋੜਨੀ' ਦਾ ਚਿੰਨ੍ਹ ਕਿਹੜਾ ਹੈ:

- a) -
- b) —
- c) :-
- d) :

15 'Civilization' ਸ਼ਬਦ ਦਾ ਪੰਜਾਬੀ ਰੂਪ ਹੈ:

- a) ਕਲਚਰ
- b) ਸਭਿਆਚਾਰ
- c) ਸਭਿਅਤਾ
- d) ਸੰਸਕ੍ਰਿਤੀ

16 September ਦਾ ਸ਼ੁੱਧ ਪੰਜਾਬੀ ਰੂਪ ਹੈ:

- a) ਸਤੰਮਬਰ
- b) ਸੈਪਟੈਮਬਰ
- c) ਸਤੰਬਰ
- d) ਸੈਪਟ ਐਂਬਰ

- 17 ਕਿਉਂਜੇ ਮੀਂਹ ਵਹਿੰਦਾ ਰਿਹਾ, ਅਸੀਂ ਪਿਕਨਿਕ 'ਤੇ ਨਹੀਂ ਜਾ ਸਕੇ' ਵਾਕ ਵਿੱਚ ਯੋਜਕ ਦੀ ਪਛਾਣ ਕਰੋ:
- a) ਵਹਿੰਦਾ
  - b) ਪਿਕਨਿਕ
  - c) ਅਸੀਂ
  - d) ਕਿਉਂਜੇ
- 18 ਪੰਜਾਬ ਵਿੱਚ ਦੇਸ਼ ਭਗਤ ਸਿੰਘ ਯਾਦਗਾਰ ਹਾਲ ਕਿੱਥੇ ਸਥਿਤ ਹੈ?
- a) ਚੰਡੀਗੜ੍ਹ
  - b) ਜਲੰਧਰ
  - c) ਲੁਧਿਆਣਾ
  - d) ਪਟਿਆਲਾ
- 19 ਇਹਨਾਂ ਵਿੱਚੋਂ ਕਿਹੜੀ ਰੀਤ ਵਿਆਹ ਨਾਲ ਸੰਬੰਧਤ ਨਹੀਂ ਹੈ?
- a) ਧੋਲ ਉਡਾਣਾ
  - b) ਮਾਈਏ ਪਾਉਣਾ
  - c) ਚੱਕੀਆਂ ਲਾਉਣਾ
  - d) ਬਕਲੀਆਂ ਵੰਡਣਾ
- 20 'ਤੀਆਂ ਦਾ ਤਿਉਹਾਰ' ਕਿਹੜੇ ਮਹੀਨੇ ਮਨਾਇਆ ਜਾਂਦਾ ਹੈ?
- a) ਅੱਸੂ
  - b) ਭਾਦੋਂ
  - c) ਸਾਉਣ
  - d) ਹਾੜ
- 21 Tony Garnier was a French architect, city planner and socialist who planned modern cities in detail according to requirements of
- a) Industrial City Model
  - b) Residential City Model
  - c) Commercial City Model
  - d) Institutional City Model

- 22 Which is an economical model created by Chauncy Harris and Edward Ullman in the 1945 article "The Nature of Cities"?
- a) Concentric Zone Theory
  - b) Sector Theory
  - c) Multiple Nuclei Theory
  - d) Fused Growth Theory
- 23 As per classification of Urban Settlement adopted for URDPFI guidelines, a large city has population range
- a) 1 to 5 lakh
  - b) 5 to 10 lakh
  - c) 10 to 15 lakh
  - d) 15 to 20 lakh
- 24 In E-Governance G2B means
- a) Government to Branches
  - b) Government to Business
  - c) Government to Buildings
  - d) Government to Bookings
- 25 Which of the following is not considered as a satellite town?
- a) Gurgaon
  - b) Noida
  - c) Navi Mumbai
  - d) Gwalior
- 26 The K-7 principle in Central Place theory relates to
- a) Administrative principle
  - b) Marketing principle
  - c) Transport principle
  - d) Sustainability principle
- 27 Patrick Geddes Triad explains the relationship amongst which of the following?
- a) Folk, Work & Leisure
  - b) Folk, Space & Shelter
  - c) Folk , Place & Work
  - d) Folk , Form & culture

- 28 Hilly Area as per National Building Code has been defined, which is above
- a) 500m above mean sea level
  - b) 600m above mean sea level
  - c) 700m above mean sea level
  - d) 800m above mean sea level
- 29 Pick the incorrect statement for Sustainable Waste Management
- a) Door to door waste collection
  - b) Segregation at the household level
  - c) Recycling of waste done at decentralized, say, ward or even lower level
  - d) All wastes to be dumped in landfill sites
- 30 “Pan city development” is part of
- a) Digital India Mission
  - b) Swachh Bharat Mission
  - c) Atal Innovation Mission
  - d) Smart Cities Mission
- 31 NUIS scheme base & Urban thematic GIS data base is available on
- a) 1:10,000 scale
  - b) 1:20,000 scale
  - c) 1:30,000 scale
  - d) 1:40,000 scale
- 32 Open strip of land on the periphery of a town for the purpose of limiting the growth is known as
- a) Green belt
  - b) Focal point
  - c) Cul-de-sac
  - d) Conurbation
- 33 As per Solid Waste Management Rules, 2016, the landfill site shall be large enough to last for at least
- a) 05 - 10 Years
  - b) 10 - 15 years
  - c) 20 - 25 years
  - d) 30 - 50 Years

- 34 How many sustainable development goals (SDG) have been formulated by United Nations in 2015?
- a) 11
  - b) 15
  - c) 17
  - d) 19
- 35 Which of the following has highest passenger car unit (PCU)?
- a) Horse drawn cart
  - b) Auto rickshaw
  - c) Bullock cart
  - d) Cycle rickshaw
- 36 Which of the following is not a zoning method?
- a) Height
  - b) Character
  - c) Accessibility
  - d) Density
- 37 Which of the following is not a mechanism for land assembly techniques?
- a) Land Pooling
  - b) Land Acquisition
  - c) Land Reservations
  - d) Land Society
- 38 Which scheme is based on Government of India's vision for "Slum free India"?
- a) Rajiv Awas Yojna, 2011
  - b) JNNURM
  - c) AMRUT
  - d) JJM
- 39 Central Slum Area (Clearance & Improvement) Act was formulated in which one of the following year?
- a) 1952
  - b) 1956
  - c) 1960
  - d) 1964

- 40 Which Vertical is not implemented through PMAY-U scheme?
- a) Infrastructure Rejuvenation Construction (IRC)
  - b) Affordable Housing in Partnership (AHP)
  - c) In-Situ Slum Redevelopment (ISSR)
  - d) Credit Linked Subsidy Scheme (CLSS).
- 41 Minimum area of a habitable room in a single room dwelling size shall be (as per NBC)
- a) 7.5 sq.m
  - b) 8.5 sq.m
  - c) 9.5 sq.m
  - d) 10.5 sq.m
- 42 A new housing price index RESIDEX has been launched by-
- a) HDFC
  - b) NITI AYOOG
  - c) NHB
  - d) HUDCO
- 43 Minimum built up area (excluding parking, basement area, and typical structures) requirement to be eligible for certification under GRIHA v.2019 for new construction projects is
- a) 2000 sqm
  - b) 2500 sqm
  - c) 3000 sqm
  - d) 3500 sqm
- 44 The number of cities selected under smart cities initiatives in India are
- a) 96
  - b) 100
  - c) 20
  - d) 95
- 45 Occupancy rate is equal to
- a) Population Density / Accommodation Density
  - b) Population Density + Accommodation Density
  - c) Population Density - Accommodation Density
  - d) Population Density  $\times$  Accommodation Density

- 46 As per Punjab building byelaws, the scale of building plans, sections and elevations for submission drawings shall be
- a) 1:100
  - b) 1:200
  - c) 1:300
  - d) 1:400
- 47 LEED certification is a
- a) Green building rating
  - b) Green city rating
  - c) Smart city rating
  - d) Green development ranks
- 48 Urban Service Level Benchmarking (SLB) initiative covers which of the following sectors?
- a) Water supply, wastewater, solid waste management and storm water drainage
  - b) Water supply, wastewater, disaster management and storm water drainage
  - c) Water supply, wastewater, solid waste management and land Management
  - d) Water supply, wastewater, plastic waste management and storm water drainage
- 49 Which is not the aim of landfill design?
- a) To minimize ingress of water
  - b) To maximize the production of leachate
  - c) To minimize uncontrolled release of landfill gases in the atmosphere
  - d) To maximize the production of bacteria
- 50 As per Indian Standard organization, PH value range of Potable water shall be-
- a) 4.5-5.5
  - b) 5.5-6.5
  - c) 6.5-8.5
  - d) 5.5-7.5
- 51 Which statement according to National Water Policy, 2012 by Ministry of Water Resources, stands true?
- a) Urban water supply and sewage treatment must be disintegrated
  - b) High water intensive sanitation and sewerage systems must be designed
  - c) Centralized sewage treatment plants should be incentivized
  - d) Water reuse must be encouraged in urban settlements

- 52 As per seismic zoning map of India, zones which are more vulnerable to earthquakes are
- a) Zone I&II
  - b) Zone II&III
  - c) Zone III&IV
  - d) Zone IV&V
- 53 What is the theme of Earth day 2023?
- a) Protect our species
  - b) Invest in our planet
  - c) Restore our earth
  - d) Climate action
- 54 AMASR Act, 2010, deals with
- a) Slum Redevelopment
  - b) Protection of Heritage sites
  - c) Protection of Natural habitats
  - d) Industrial development
- 55 As per 74<sup>th</sup> Amendment Act, a Nagar Panchayat shall be constituted for
- a) Smaller Urban Area
  - b) Rural Area
  - c) Area in transition from rural to urban area
  - d) Larger urban area
- 56 How many seats are reserved in Panchayats for women members?
- a) Two third
  - b) One third
  - c) Half
  - d) One fourth
- 57 Kirpich Equation Method is used to estimate
- a) Population
  - b) Electricity energy load
  - c) Storm water runoff
  - d) Vehicle travel time
- 58 Fundamental element of sustainable neighbourhood is
- a) Pedestrian
  - b) Use of nuclear energy
  - c) Wildlife corridor
  - d) Electric charging points

- 59 Government of India's urban development program 'HRIDAY' stands for
- a) Heritage Rejuvenation Implementation Development Aayog Yojana
  - b) Heritage Review Implementation Development Augmentation Yojana
  - c) Heritage City Development and Augmentation Yojana
  - d) Heritage City Improvement and Development Aawas Yojana
- 60 The buildable area available on a plot of one hectare with FAR of 0.75 is
- a) 750 sqm
  - b) 7500 sqm
  - c) 10000 sqm
  - d) 75000 sqm
- 61 As per the norms of Pradhan Mantri Awas Yojana, a household is classified as Economically Weaker section if:
- a) Household's annual income is up to ₹ 1,00,000/-
  - b) Household's annual income is up to ₹ 3,00,000/-
  - c) Household's monthly income is up to ₹ 1,00,000/-
  - d) Household's monthly income is up to ₹ 3,00,000/-
- 62 A 'cul-de-sac' is a street with
- a) Dead end
  - b) Through traffic
  - c) Many junctions
  - d) Ring road
- 63 As per URDPFI Guidelines proposed Residential land use for medium urban centres is
- a) 45-50 %
  - b) 43-48 %
  - c) 36-39 %
  - d) 36-38 %
- 64 What does Punjab Regional and Town Planning Act say about the penalties for unauthorized development or construction?
- a) No penalties are mentioned in act
  - b) Penalties may include fines and imprisonment
  - c) Penalties are only applicable to commercial projects
  - d) Penalties are determined

- 65 BHUVAN provides \_\_\_\_\_ for public use
- a) Population Survey data
  - b) Census data
  - c) Satellite remote sensing data for public use
  - d) Manual survey data for land
- 66 As per Solid Waste Management Rules 2016, Bulk Waste Generator includes buildings that have average waste generation rate more than
- a) 75 Kg per day
  - b) 100 Kg per day
  - c) 125 Kg per day
  - d) 150 Kg per day
- 67 Green Blue policy proposed by Delhi Master Plan 2041 conceptualizes
- a) Water bodies and Land being interdependent
  - b) Water bodies and Land are independent
  - c) Water bodies and land generate economic activities
  - d) Water bodies and land promote cultural interactions
- 68 Minimum built up area to be given for LIG Unit is
- a) 30 Sqm
  - b) 40 Sqm
  - c) 45 Sqm
  - d) 60 Sqm
- 69 ECBC Norms are applicable to all types of new buildings or building complexes that have a connected load of
- a) 100 kW or greater
  - b) 200 kW or greater
  - c) 400 kW or greater
  - d) 500 kW or greater
- 70 Gini Coefficient Value 1 represents
- a) Equal equality and inequality
  - b) Perfect equality
  - c) More inequality
  - d) No inequality

- 71 In advocacy Planning
- a) The planner is provided with the opportunity to act as technician
  - b) The planner is provided with the opportunity to endorse the plan which he believes in
  - c) The planner is provided with the opportunity to modify the plan as per his choice
  - d) The planner is provided with the opportunity to prepare the plan as per administrator's choice
- 72 Among the following architect planners of foreign origin, the one who is NOT associated with an Indian City is:
- a) Otto Koenigsberger
  - b) Fry Otto
  - c) Edwin Lutyens
  - d) Le Corbusier
- 73 GRIHA rating system consists of \_\_\_\_\_ criteria categorized under various sections:
- a) 24
  - b) 34
  - c) 44
  - d) 543
- 74 SPSS is a software primarily used for
- a) GIS Analysis
  - b) Development plan analysis
  - c) Statistical analysis
  - d) Drawing Development Plans
- 75 3 Magnet theory was proposed by
- a) Ebenezer Howard
  - b) Patrick Geddes
  - c) Lewis Mumford
  - d) Le Corbusier
- 76 As per "V-7" concept of Le Corbusier, V7 is
- a) Outer ring road
  - b) Foot path
  - c) Sector road
  - d) Highway
- 77 Amritsar lies in which Seismic zone?
- a) Zone II
  - b) Zone III
  - c) Zone IV
  - d) Zone V

- 78 In case of residential apartments, effective floor area available for use within an apartment is known as
- a) Carpet Area
  - b) Built up area
  - c) Plinth area
  - d) Super built up area
- 79 Plan of New Delhi is in
- a) Linear Pattern
  - b) Finger Pattern
  - c) Grid Iron Pattern
  - d) Radial Pattern
- 80 Hazen & William's nomogram is used in
- a) Water supply distribution
  - b) Land use distribution
  - c) Density Distribution
  - d) Income distribution
- 81 Indus Valley Civilization is specially known for
- a) Vaulted Roofing systems
  - b) Underground drainage system
  - c) Great palaces
  - d) Exclusive land use
- 82 Minimum horizontal distance for any building from 33 KV electric line is
- a) 1.2 m
  - b) 1.5 m
  - c) 2.0 m
  - d) 2.5m
- 83 What is the purpose of a Travel Time and Delay Study?
- a) To evaluate the traffic stream
  - b) For survey data
  - c) To assess the quality of traffic movement
  - d) To assess the time taken to travel by various vehicles
- 84 What are the aspects that can be analyzed through a Figure-ground map?
- a) Block size and land use
  - b) Land use and Open spaces
  - c) Street pattern and Block size
  - d) Building details and Street pattern

- 85 Which of the following phenomena is not a natural hazard?
- Chemical contamination
  - Landslide
  - Wildfire
  - Lightning
- 86 Arrange the following Land use classifications in chronological order as per UDPFI guidelines.
- Industrial
  - Residential
  - Public and Semi-Public
  - Commercial
- 2 1 4 3
  - 2 4 1 3
  - 2 4 3 1
  - 2 3 4 1
- 87 Which of the following city can be called as Megalopolis?
- Kochi
  - Indore
  - Mumbai
  - Ahmadabad
- 88 Economic and Social Planning is in
- Union list
  - State list
  - Concurrent list
  - Local List
- 89 Consider the following statements.
- Structural Plan is to serve as a planning tool which directs the growths and zones of planning, but is not as precise as the development plan
  - Structural Plan is to serve as a planning tool which directs the growths and zones of planning and is as precise as the development plan
  - Structural Plan is to serve as a spatial planning tool which directs the socio –economic growths and development of planning and is as precise as the development plan
- Which of the above statements is/are correct?
- 1 Only
  - 1 and 2 Only
  - 2 and 3 Only
  - 1, 2 and 3

- 90 Land Acquisition, Rehabilitation and Resettlement (LARR) Act was passed in the year:
- a) 2011
  - b) 2012
  - c) 2013
  - d) 2014
- 91 GRIHA refers to:
- a) Green Rating for International Habitat Assessment
  - b) Green Rating for International Habitat Assessment
  - c) Green Rating for Integrated Habitat Assessment
  - d) Green Rating for International Habitat Accreditation
- 92 The economic growth is best defined as an increase in
- a) Money GDP
  - b) Investment
  - c) Real GDP per capita
  - d) The HDI
- 93 Deforestation may reduce the chances of
- a) frequent cyclones
  - b) rainfall
  - c) frequent landslides
  - d) erosion of soil surface
- 94 "Floor Area Ratio (FAR)" means
- a) the quotient obtained by dividing the total covered area on all floors by the area of the plot
  - b) the quotient obtained by multiplying the total covered area on all floors by the area of the plot
  - c) the quotient obtained by subtracting the total covered area on all floors by the area of the plot
  - d) quotient obtained by adding the total covered area on all floors and the area of the plot
- 95 The term "Sullage" refers to
- a) Liquid waste from kitchen and bathroom
  - b) Liquid waste from toilets
  - c) Liquid waste from industries
  - d) Liquid waste from oil refiners

- 96 What is the full form of “CLSS”?
- a) Credit Linked Security Scheme
  - b) Credit Linked Subsidy Scheme
  - c) Credit Linked Security Subsidy
  - d) Class Linked Subsidy Scheme
- 97 The minimum width of staircase for an institutional building shall be (as per NBC)
- a) 1.5 m
  - b) 2.0 m
  - c) 1.0 m
  - d) 2.5 m
- 98 TOD stands for
- a) Transit Oriented Development
  - b) Term Oriented Development
  - c) Transfer Of Development
  - d) Transit Operated Development
- 99 What should be the roof assembly U-Factor (W/ k) for ECBC compliant buildings- Hospitality >10000m<sup>2</sup> AGA
- a) 0.30
  - b) 0.25
  - c) 0.20
  - d) 0.35
- 100 RERA requires developers to register their projects with the regulatory authority if the project exceeds how many square meters?
- a) 500 sq. m
  - b) 1000 sq. m
  - c) 2000 sq. m
  - d) 5000 sq. m
- 101 NITI Aayog stands for:
- a) National Institution for Transforming India
  - b) National Institute for Transporting India
  - c) National Institute for Training India
  - d) National Institute for Traffic India

102 The settling velocity of a particle is 0.6 cm/s and the overflow rate of a horizontal clarifier is 0.8 cm/s. What percentage of particles is retained in the clarifier?

- a) 79%
- b) 82%
- c) 75%
- d) 88%

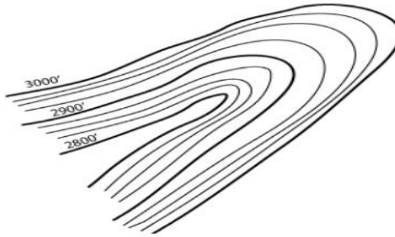
103 Choose the correct sequence of filtration processes used for sequential removal of particles.

- 1. Nanofiltration
- 2. Microfiltration
- 3. Ultrafiltration
- 4. Reverse Osmosis

Choose the correct sequence from the options given below

- a) 1, 2, 3, 4
- b) 3, 2, 1, 4
- c) 4, 3, 2, 1
- d) 2, 3, 1, 4

104 What kind of topographic landform is represented in the following illustration?



- a) Valley
- b) Ridge
- c) Hill
- d) Plain

105 Which Indian city was planned during Mughal period by Vidyadhar Bhattacharya?

- a) Kolkata
- b) Madurai
- c) Golkunda
- d) Jaipur

106 Which of the following is the largest brackish water lagoon in Asia?

- a) Loktak Lakee
- b) Chilika Lak
- c) Wular Lake
- d) Nal Sarovar

- 107 Which Article of 74<sup>th</sup> Constitutional Amendment Act provides for Constitution of Metropolitan Planning Committees?
- a) 234 ZE
  - b) 243 ZE
  - c) 247 ZE
  - d) 242 ZE
- 108 Arrange the following Mass Transport systems in terms of their carrying capacities starting with highest to lowest and choose the correct option
- 1. Metro Rail
  - 2. BRTS
  - 3. Tramway
  - 4. Monorail
- a) 1 2 3 4
  - b) 4 3 2 1
  - c) 1 4 3 2
  - d) 3 4 2 1
- 109 Sustainable Development Goals (SDG) have specific targets to be achieved by
- a) 2022
  - b) 2030
  - c) 2040
  - d) 2050
- 110 Golden Quadrilateral project in India relates to
- a) Railway transport project
  - b) Roadway transport project
  - c) Industrial corridor project
  - d) Waterway project
- 111 Right to vote and to be elected as representative in India is a
- a) Political Right
  - b) Constitutional Right
  - c) Legal Right
  - d) None of the Above
- 112 Theme of the G-20 summit in 2023 is
- a) Recover Together, Recover Stronger
  - b) People, Planet, Prosperity
  - c) One Earth, One family, One Future
  - d) Realising Opportunities of the 21st Century for all

- 113 Match List I with List II and choose the correct option from the codes given below the lists ;

	List I (Dam)	List II (River)
A.	Nagarjuna sagar	1. Kaveri
B.	Mettur	2. Narmada
C.	Hirakud	3. Krishna
D.	Indira sagar dam	4.Mahanadi

Code

	A	B	C	D
a)	1	4	2	3
b)	3	2	4	1
c)	3	1	4	2
d)	1	3	2	4

- 114 16<sup>th</sup> August 1946 was announced by the Muslim League as

- a) Independence Day
- b) Deliverance Day
- c) Direct Action Day
- d) Pakistan Day

- 115 The characteristic of sound by which we can distinguish between a shrill and a grave sound is known as

- a) quality
- b) intensity
- c) loudness
- d) pitch

- 116 Which of the following is the incorrect match?

- a) August offer – Dominion States
- b) Cripps proposals – Earliest possible realization of “Self- Government” in India
- c) Wavell Plan – Formation of provisional Interim Government at the centre
- d) Shimla Conference – Independence and Partition

- 117 After the decline of Napoleon, two French officers who joined Maharaja Ranjit Singh’s service in 1822 were:

- a) Duke of Wellington and Marshal Blucher
- b) Captain Allard and Ventura
- c) Louis-Nicolas Davout and Jean Lafitte
- d) Marcellin Marbot and Jean Danjou

- 118 Chandrayaan 3's Lander and Rover have been named as \_\_\_\_\_ and \_\_\_\_\_ respectively.
- a) Vikram, Satish
  - b) Vikram, Pragyan
  - c) Aditya, Sniper
  - d) Helios, Aditya
- 119 Most of the literary works under the patronage of Shri Guru Gobind Singh Ji were compiled at which of the following places?
- a) Anandpur Sahib
  - b) Chamkaur Sahib
  - c) Paonta Sahib
  - d) Hemkunt Sahib
- 120 FIFA Women's World Cup 2023 has been won by
- a) USA
  - b) England
  - c) Brazil
  - d) Spain

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## **SPACE FOR ROUGH WORK**

# PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Sept-2023) for Recruitment to the Post of Assistant Town Planner (Group A) in the Department of Town & Country Planning, Government of Punjab

READ INSTRUCTIONS BEFORE FILLING ANY DETAILS OR ATTEMPTING TO ANSWER THE QUESTIONS.

Total Questions: 120  
Time Allowed: 2 Hours

Candidate's Name \_\_\_\_\_

Father's Name \_\_\_\_\_

Date of Birth          
DD MM YYYY

OMR Response Sheet No. \_\_\_\_\_

Roll No. \_\_\_\_\_

Candidate's Signature (Please sign in the box)

Question  
Booklet Set

D

Booklet Series

## INSTRUCTIONS

1. The candidate shall NOT open this booklet till the time told to do so by the Invigilation Staff. However, in the meantime, the candidate can read these instructions carefully and subsequently fill the appropriate columns given above in CAPITAL letters. The candidate may also fill the relevant boxes out of 1 to 9 of the Optical Mark Reader (OMR) response sheet, supplied separately.
2. Use only blue or black **ball point pen** to fill the relevant columns on this page as well as in OMR sheet. Use of Ink pen or any other pen is not allowed.
3. The candidate shall be liable for any adverse effect if the information given above is wrong or illegible or incomplete.
4. Each candidate is required to attempt 120 questions in 120 minutes, except for orthopedically/visually impaired candidates, who would be given 40 extra minutes, for marking correct responses on the OMR sheet.
5. The question paper booklet has 23 pages.
6. The candidates, when allowed to open the question paper booklet, must first check the entire booklet to confirm that the booklet has complete number of pages, the pages printed correctly and there are no blank pages. In case there is any such error in the question paper booklet then the candidate should IMMEDIATELY bring this fact to the notice of the Invigilation Staff and obtain a new booklet of the same series as given earlier.
7. The serial number of the new Question booklet if issued for some reason should be entered in the relevant column of the OMR. The Invigilation Staff must make necessary corrections in their record regarding the change in the serial no. of Question booklet.
8. The paper consists of total 480 Marks. Each question shall carry 4 marks. There are four options for each question and the candidate has to mark the MOST APPROPRIATE answer on the OMR response sheet.
9. There is negative marking (1 mark for each question) for questions wrongly answered by the candidate.
10. Use of Electronic/Manual Calculator is prohibited.
11. The candidate **MUST READ INSTRUCTIONS BEHIND THE OMR SHEET** before answering the questions and check that two carbon copies attached to the OMR sheet are intact.

- 1 Right to vote and to be elected as representative in India is a
  - a) Political Right
  - b) Constitutional Right
  - c) Legal Right
  - d) None of the Above
- 2 Theme of the G-20 summit in 2023 is
  - a) Recover Together, Recover Stronger
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D.	Indira sagar dam	4.Mahanadi

Code

	A	B	C	D
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- a) Anandpur Sahib
  - b) Chamkaur Sahib
  - c) Paonta Sahib
  - d) Hemkunt Sahib
- 10 FIFA Women’s World Cup 2023 has been won by
- a) USA
  - b) England
  - c) Brazil
  - d) Spain

- 11 Ravi walks 6 km towards the North, then takes a left turn and walks 4 km. Finally, he takes another left turn and walks 6 km. In which direction is Ravi facing now?
- a) North
  - b) South
  - c) East
  - d) West
- 12 Three fourth of a number is 60 more than its one third. The number is
- a) 66
  - b) 144
  - c) 160
  - d) 120
- 13 If  $Z = 78$  and  $ACHE = 51$ , then  $TAKE$  will be equal to
- a) 121
  - b) 118
  - c) 124
  - d) 111
- 14 X can complete a work in 15 days and Y can complete the same work in 12 days. If they work alternatively for a day each, starting with X, how many days will they take to complete the work?
- a) 17.2
  - b) 22.6
  - c) 24.8
  - d) 13.4
- 15 The ratio of the areas of two squares is 4:9. What is the ratio of their perimeters?
- a) 1:2
  - b) 2:3
  - c) 3:4
  - d) 4:5
- 16 What was the day of the week on 17th August, 2010?
- a) Sunday
  - b) Wednesday
  - c) Tuesday
  - d) Friday

- 17 Fact 1: All cricketers like to be all-rounder.  
Fact 2: Some cricketers like bowling.  
Fact 3: Some cricketers like batting.  
If the first three statements are facts, which of the following statements must also be a fact?  
I: All cricketers who like bowling like batting.  
II: Cricketers who like bowling also like to be all-rounder.  
III: Cricketers who like to be all-rounder do not like batting.
- a) I only  
b) II only  
c) II and III only  
d) None of the statement is a known fact
- 18 A shopkeeper sells one refrigerator for Rs. 72000 at a profit of 20% and another for Rs. 57000 at a loss of 5%. His total profit or loss in rupees is
- a) 9000 profit  
b) 7000 loss  
c) 8500 profit  
d) 5100 profit
- 19 There are four bells in a temple which ring at an interval of 2, 8, 10 and 12 seconds respectively. In one hour how many times do they ring together?
- a) 50  
b) 30  
c) 31  
d) 15
- 20 Identify the wrong number in the series: 3, 8, 18, 38, 80, 158
- a) 8  
b) 80  
c) 38  
d) 158
- 21 'ਇੱਕ ਪਰਹੇਜ਼ ਤੇ \_\_\_\_ ਹਕੀਮ' ਅਖਾਣ ਪੂਰਾ ਕਰੋ :
- a) ਦੇ  
b) ਸਿਆਣਾ  
c) ਮੂਰਖ  
d) ਸੈ

- 22 ਨਿਮਨ ਲਿਖਤ ਸ਼ਬਦਾਂ ਵਿੱਚੋਂ ਕਿਹੜਾ ਸ਼ਬਦ ਸ਼ੁੱਧ ਰੂਪ ਵਿੱਚ ਹੈ?
- a) ਆਯਾ
  - b) ਭਗਤਿ
  - c) ਮਿਹਨਤ
  - d) ਮੇਹਨਤ
- 23 ਕਿਹੜਾ ਸ਼ਬਦ 'ਕ' ਅਗੇਤਰ ਨਾਲ ਬਣਿਆ ਹੈ:
- a) ਕਮਜ਼ੋਰ
  - b) ਕਮਅਕਲ
  - c) ਕਾਰਖਾਨਾ
  - d) ਕਬੋਲ
- 24 'ਜੋੜਨੀ' ਦਾ ਚਿੰਨ੍ਹ ਕਿਹੜਾ ਹੈ:
- a) -
  - b) —
  - c) :-
  - d) :
- 25 'Civilization' ਸ਼ਬਦ ਦਾ ਪੰਜਾਬੀ ਰੂਪ ਹੈ:
- a) ਕਲਚਰ
  - b) ਸਭਿਆਚਾਰ
  - c) ਸਭਿਅਤਾ
  - d) ਸੰਸਕ੍ਰਿਤੀ
- 26 September ਦਾ ਸ਼ੁੱਧ ਪੰਜਾਬੀ ਰੂਪ ਹੈ:
- a) ਸਤੰਮਬਰ
  - b) ਸੈਪਟੈਮਬਰ
  - c) ਸਤੰਬਰ
  - d) ਸੈਪਟ ਐਂਬਰ

- 27 ਕਿਉਂਜੇ ਮੀਂਹ ਵਹਿੰਦਾ ਰਿਹਾ, ਅਸੀਂ ਪਿਕਨਿਕ 'ਤੇ ਨਹੀਂ ਜਾ ਸਕੇ' ਵਾਕ ਵਿੱਚ ਯੋਜਕ ਦੀ ਪਛਾਣ ਕਰੋ:
- ਵਹਿੰਦਾ
  - ਪਿਕਨਿਕ
  - ਅਸੀਂ
  - ਕਿਉਂਜੇ
- 28 ਪੰਜਾਬ ਵਿੱਚ ਦੇਸ਼ ਭਗਤ ਸਿੰਘ ਯਾਦਗਾਰ ਹਾਲ ਕਿੱਥੇ ਸਥਿਤ ਹੈ?
- ਚੰਡੀਗੜ੍ਹ
  - ਜਲੰਧਰ
  - ਲੁਧਿਆਣਾ
  - ਪਟਿਆਲਾ
- 29 ਇਹਨਾਂ ਵਿੱਚੋਂ ਕਿਹੜੀ ਰੀਤ ਵਿਆਹ ਨਾਲ ਸੰਬੰਧਤ ਨਹੀਂ ਹੈ?
- ਧੋਲ ਉਡਾਣਾ
  - ਮਾਈਏ ਪਾਉਣਾ
  - ਚੱਕੀਆਂ ਲਾਉਣਾ
  - ਬਕਲੀਆਂ ਵੰਡਣਾ
- 30 'ਤੀਆਂ ਦਾ ਤਿਉਹਾਰ' ਕਿਹੜੇ ਮਹੀਨੇ ਮਨਾਇਆ ਜਾਂਦਾ ਹੈ?
- ਅੱਸੂ
  - ਭਾਦੋਂ
  - ਸਾਉਣ
  - ਹਾੜ
- 31 Tony Garnier was a French architect, city planner and socialist who planned modern cities in detail according to requirements of
- Industrial City Model
  - Residential City Model
  - Commercial City Model
  - Institutional City Model

- 32 Which is an economical model created by Chauncy Harris and Edward Ullman in the 1945 article "The Nature of Cities"?
- a) Concentric Zone Theory
  - b) Sector Theory
  - c) Multiple Nuclei Theory
  - d) Fused Growth Theory
- 33 As per classification of Urban Settlement adopted for URDPFI guidelines, a large city has population range
- a) 1 to 5 lakh
  - b) 5 to 10 lakh
  - c) 10 to 15 lakh
  - d) 15 to 20 lakh
- 34 In E-Governance G2B means
- a) Government to Branches
  - b) Government to Business
  - c) Government to Buildings
  - d) Government to Bookings
- 35 Which of the following is not considered as a satellite town?
- a) Gurgaon
  - b) Noida
  - c) Navi Mumbai
  - d) Gwalior
- 36 The K-7 principle in Central Place theory relates to
- a) Administrative principle
  - b) Marketing principle
  - c) Transport principle
  - d) Sustainability principle
- 37 Patrick Geddes Triad explains the relationship amongst which of the following?
- a) Folk, Work & Leisure
  - b) Folk, Space & Shelter
  - c) Folk , Place & Work
  - d) Folk , Form & culture

- 38 Hilly Area as per National Building Code has been defined, which is above
- a) 500m above mean sea level
  - b) 600m above mean sea level
  - c) 700m above mean sea level
  - d) 800m above mean sea level
- 39 Pick the incorrect statement for Sustainable Waste Management
- a) Door to door waste collection
  - b) Segregation at the household level
  - c) Recycling of waste done at decentralized, say, ward or even lower level
  - d) All wastes to be dumped in landfill sites
- 40 “Pan city development” is part of
- a) Digital India Mission
  - b) Swachh Bharat Mission
  - c) Atal Innovation Mission
  - d) Smart Cities Mission
- 41 NUIS scheme base & Urban thematic GIS data base is available on
- a) 1:10,000 scale
  - b) 1:20,000 scale
  - c) 1:30,000 scale
  - d) 1:40,000 scale
- 42 Open strip of land on the periphery of a town for the purpose of limiting the growth is known as
- a) Green belt
  - b) Focal point
  - c) Cul-de-sac
  - d) Conurbation
- 43 As per Solid Waste Management Rules, 2016, the landfill site shall be large enough to last for at least
- a) 05 - 10 Years
  - b) 10 - 15 years
  - c) 20 - 25 years
  - d) 30 - 50 Years

- 44 How many sustainable development goals (SDG) have been formulated by United Nations in 2015?
- a) 11
  - b) 15
  - c) 17
  - d) 19
- 45 Which of the following has highest passenger car unit (PCU)?
- a) Horse drawn cart
  - b) Auto rickshaw
  - c) Bullock cart
  - d) Cycle rickshaw
- 46 Which of the following is not a zoning method?
- a) Height
  - b) Character
  - c) Accessibility
  - d) Density
- 47 Which of the following is not a mechanism for land assembly techniques?
- a) Land Pooling
  - b) Land Acquisition
  - c) Land Reservations
  - d) Land Society
- 48 Which scheme is based on Government of India's vision for "Slum free India"?
- a) Rajiv Awas Yojna, 2011
  - b) JNNURM
  - c) AMRUT
  - d) JJM

- 49 Central Slum Area (Clearance & Improvement) Act was formulated in which one of the following year?
- a) 1952
  - b) 1956
  - c) 1960
  - d) 1964
- 50 Which Vertical is not implemented through PMAY-U scheme?
- a) Infrastructure Rejuvenation Construction (IRC)
  - b) Affordable Housing in Partnership (AHP)
  - c) In-Situ Slum Redevelopment (ISSR)
  - d) Credit Linked Subsidy Scheme (CLSS).
- 51 Minimum area of a habitable room in a single room dwelling size shall be (as per NBC)
- a) 7.5 sq.m
  - b) 8.5 sq.m
  - c) 9.5 sq.m
  - d) 10.5 sq.m
- 52 A new housing price index RESIDEX has been launched by-
- a) HDFC
  - b) NITI AYOG
  - c) NHB
  - d) HUDCO
- 53 Minimum built up area (excluding parking, basement area, and typical structures) requirement to be eligible for certification under GRIHA v.2019 for new construction projects is
- a) 2000 sqm
  - b) 2500 sqm
  - c) 3000 sqm
  - d) 3500 sqm
- 54 The number of cities selected under smart cities initiatives in India are
- a) 96
  - b) 100
  - c) 20
  - d) 95

- 55 Occupancy rate is equal to
- a) Population Density / Accommodation Density
  - b) Population Density + Accommodation Density
  - c) Population Density - Accommodation Density
  - d) Population Density  $\times$  Accommodation Density
- 56 As per Punjab building byelaws, the scale of building plans, sections and elevations for submission drawings shall be
- a) 1:100
  - b) 1:200
  - c) 1:300
  - d) 1:400
- 57 LEED certification is a
- a) Green building rating
  - b) Green city rating
  - c) Smart city rating
  - d) Green development ranks
- 58 Urban Service Level Benchmarking (SLB) initiative covers which of the following sectors?
- a) Water supply, wastewater, solid waste management and storm water drainage
  - b) Water supply, wastewater, disaster management and storm water drainage
  - c) Water supply, wastewater, solid waste management and land Management
  - d) Water supply, wastewater, plastic waste management and storm water drainage
- 59 Which is not the aim of landfill design?
- a) To minimize ingress of water
  - b) To maximize the production of leachate
  - c) To minimize uncontrolled release of landfill gases in the atmosphere
  - d) To maximize the production of bacteria
- 60 As per Indian Standard organization, PH value range of Potable water shall be-
- a) 4.5-5.5
  - b) 5.5-6.5
  - c) 6.5-8.5
  - d) 5.5-7.5

- 61 Which statement according to National Water Policy, 2012 by Ministry of Water Resources, stands true?
- a) Urban water supply and sewage treatment must be disintegrated
  - b) High water intensive sanitation and sewerage systems must be designed
  - c) Centralized sewage treatment plants should be incentivized
  - d) Water reuse must be encouraged in urban settlements
- 62 As per seismic zoning map of India, zones which are more vulnerable to earthquakes are
- a) Zone I&II
  - b) Zone II&III
  - c) Zone III&IV
  - d) Zone IV&V
- 63 What is the theme of Earth day 2023?
- a) Protect our species
  - b) Invest in our planet
  - c) Restore our earth
  - d) Climate action
- 64 AMASR Act, 2010, deals with
- a) Slum Redevelopment
  - b) Protection of Heritage sites
  - c) Protection of Natural habitats
  - d) Industrial development
- 65 As per 74<sup>th</sup> Amendment Act, a Nagar Panchayat shall be constituted for
- a) Smaller Urban Area
  - b) Rural Area
  - c) Area in transition from rural to urban area
  - d) Larger urban area
- 66 How many seats are reserved in Panchayats for women members?
- a) Two third
  - b) One third
  - c) Half
  - d) One fourth

- 67 Kirpich Equation Method is used to estimate
- a) Population
  - b) Electricity energy load
  - c) Storm water runoff
  - d) Vehicle travel time
- 68 Fundamental element of sustainable neighbourhood is
- a) Pedestrian
  - b) Use of nuclear energy
  - c) Wildlife corridor
  - d) Electric charging points
- 69 Government of India's urban development program 'HRIDAY' stands for
- a) Heritage Rejuvenation Implementation Development Aayog Yojana
  - b) Heritage Review Implementation Development Augmentation Yojana
  - c) Heritage City Development and Augmentation Yojana
  - d) Heritage City Improvement and Development Aawas Yojana
- 70 The buildable area available on a plot of one hectare with FAR of 0.75 is
- a) 750 sqm
  - b) 7500 sqm
  - c) 10000 sqm
  - d) 75000 sqm
- 71 As per the norms of Pradhan Mantri Awas Yojana, a household is classified as Economically Weaker section if:
- a) Household's annual income is up to ₹ 1,00,000/-
  - b) Household's annual income is up to ₹ 3,00,000/-
  - c) Household's monthly income is up to ₹ 1,00,000/-
  - d) Household's monthly income is up to ₹ 3,00,000/-
- 72 A 'cul-de-sac' is a street with
- a) Dead end
  - b) Through traffic
  - c) Many junctions
  - d) Ring road
- 73 As per URDPFI Guidelines proposed Residential land use for medium urban centres is
- a) 45-50 %
  - b) 43-48 %
  - c) 36-39 %
  - d) 36-38 %

- 74 What does Punjab Regional and Town Planning Act say about the penalties for unauthorized development or construction?
- a) No penalties are mentioned in act
  - b) Penalties may include fines and imprisonment
  - c) Penalties are only applicable to commercial projects
  - d) Penalties are determined
- 75 BHUVAN provides \_\_\_\_\_ for public use
- a) Population Survey data
  - b) Census data
  - c) Satellite remote sensing data for public use
  - d) Manual survey data for land
- 76 As per Solid Waste Management Rules 2016, Bulk Waste Generator includes buildings that have average waste generation rate more than
- a) 75 Kg per day
  - b) 100 Kg per day
  - c) 125 Kg per day
  - d) 150 Kg per day
- 77 Green Blue policy proposed by Delhi Master Plan 2041 conceptualizes
- a) Water bodies and Land being interdependent
  - b) Water bodies and Land are independent
  - c) Water bodies and land generate economic activities
  - d) Water bodies and land promote cultural interactions
- 78 Minimum built up area to be given for LIG Unit is
- a) 30 Sqm
  - b) 40 Sqm
  - c) 45 Sqm
  - d) 60 Sqm
- 79 ECBC Norms are applicable to all types of new buildings or building complexes that have a connected load of
- a) 100 kW or greater
  - b) 200 kW or greater
  - c) 400 kW or greater
  - d) 500 kW or greater

- 80 Gini Coefficient Value 1 represents
- a) Equal equality and inequality
  - b) Perfect equality
  - c) More inequality
  - d) No inequality
- 81 In advocacy Planning
- a) The planner is provided with the opportunity to act as technician
  - b) The planner is provided with the opportunity to endorse the plan which he believes in
  - c) The planner is provided with the opportunity to modify the plan as per his choice
  - d) The planner is provided with the opportunity to prepare the plan as per administrator's choice
- 82 Among the following architect planners of foreign origin, the one who is NOT associated with an Indian City is:
- a) Otto Koenigsberger
  - b) Fry Otto
  - c) Edwin Lutyens
  - d) Le Corbusier
- 83 GRIHA rating system consists of \_\_\_\_\_ criteria categorized under various sections:
- a) 24
  - b) 34
  - c) 44
  - d) 543
- 84 SPSS is a software primarily used for
- a) GIS Analysis
  - b) Development plan analysis
  - c) Statistical analysis
  - d) Drawing Development Plans
- 85 3 Magnet theory was proposed by
- a) Ebenezer Howard
  - b) Patrick Geddes
  - c) Lewis Mumford
  - d) Le Corbusier
- 86 As per "V-7" concept of Le Corbusier, V7 is
- a) Outer ring road
  - b) Foot path
  - c) Sector road
  - d) Highway

- 87 Amritsar lies in which Seismic zone?
- a) Zone II
  - b) Zone III
  - c) Zone IV
  - d) Zone V
- 88 In case of residential apartments, effective floor area available for use within an apartment is known as
- a) Carpet Area
  - b) Built up area
  - c) Plinth area
  - d) Super built up area
- 89 Plan of New Delhi is in
- a) Linear Pattern
  - b) Finger Pattern
  - c) Grid Iron Pattern
  - d) Radial Pattern
- 90 Hazen & William's nomogram is used in
- a) Water supply distribution
  - b) Land use distribution
  - c) Density Distribution
  - d) Income distribution
- 91 Indus Valley Civilization is specially known for
- a) Vaulted Roofing systems
  - b) Underground drainage system
  - c) Great palaces
  - d) Exclusive land use
- 92 Minimum horizontal distance for any building from 33 KV electric line is
- a) 1.2 m
  - b) 1.5 m
  - c) 2.0 m
  - d) 2.5m
- 93 What is the purpose of a Travel Time and Delay Study?
- a) To evaluate the traffic stream
  - b) For survey data
  - c) To assess the quality of traffic movement
  - d) To assess the time taken to travel by various vehicles

- 94 What are the aspects that can be analyzed through a Figure-ground map?
- a) Block size and land use
  - b) Land use and Open spaces
  - c) Street pattern and Block size
  - d) Building details and Street pattern
- 95 Which of the following phenomena is not a natural hazard?
- a) Chemical contamination
  - b) Landslide
  - c) Wildfire
  - d) Lightning
- 96 Arrange the following Land use classifications in chronological order as per UDPFI guidelines.
- 1. Industrial
  - 2. Residential
  - 3. Public and Semi-Public
  - 4. Commercial
- a) 2 1 4 3
  - b) 2 4 1 3
  - c) 2 4 3 1
  - d) 2 3 4 1
- 97 Which of the following city can be called as Megalopolis?
- a) Kochi
  - b) Indore
  - c) Mumbai
  - d) Ahmadabad
- 98 Economic and Social Planning is in
- a) Union list
  - b) State list
  - c) Concurrent list
  - d) Local List

99 Consider the following statements.

1. Structural Plan is to serve as a planning tool which directs the growths and zones of planning, but is not as precise as the development plan
2. Structural Plan is to serve as a planning tool which directs the growths and zones of planning and is as precise as the development plan
3. Structural Plan is to serve as a spatial planning tool which directs the socio –economic growths and development of planning and is as precise as the development plan

Which of the above statements is/are correct?

- a) 1 Only
- b) 1 and 2 Only
- c) 2 and 3 Only
- d) 1, 2 and 3

100 Land Acquisition, Rehabilitation and Resettlement (LARR) Act was passed in the year:

- a) 2011
- b) 2012
- c) 2013
- d) 2014

101 GRIHA refers to:

- a) Green Rating for International Habitat Assessment
- b) Green Rating for International Habitat Assessment
- c) Green Rating for Integrated Habitat Assessment
- d) Green Rating for International Habitat Accreditation

102 The economic growth is best defined as an increase in

- a) Money GDP
- b) Investment
- c) Real GDP per capita
- d) The HDI

103 Deforestation may reduce the chances of

- a) frequent cyclones
- b) rainfall
- c) frequent landslides
- d) erosion of soil surface

- 104 "Floor Area Ratio (FAR)" means
- a) the quotient obtained by dividing the total covered area on all floors by the area of the plot
  - b) the quotient obtained by multiplying the total covered area on all floors by the area of the plot
  - c) the quotient obtained by subtracting the total covered area on all floors by the area of the plot
  - d) quotient obtained by adding the total covered area on all floors and the area of the plot
- 105 The term "Sullage" refers to
- a) Liquid waste from kitchen and bathroom
  - b) Liquid waste from toilets
  - c) Liquid waste from industries
  - d) Liquid waste from oil refiners
- 106 What is the full form of "CLSS"?
- a) Credit Linked Security Scheme
  - b) Credit Linked Subsidy Scheme
  - c) Credit Linked Security Subsidy
  - d) Class Linked Subsidy Scheme
- 107 The minimum width of staircase for an institutional building shall be (as per NBC)
- a) 1.5 m
  - b) 2.0 m
  - c) 1.0 m
  - d) 2.5 m
- 108 TOD stands for
- a) Transit Oriented Development
  - b) Term Oriented Development
  - c) Transfer Of Development
  - d) Transit Operated Development
- 109 What should be the roof assembly U-Factor ( $W/k$ ) for ECBC compliant buildings- Hospitality  $>10000\text{m}^2$  AGA
- a) 0.30
  - b) 0.25
  - c) 0.20
  - d) 0.35

110 RERA requires developers to register their projects with the regulatory authority if the project exceeds how many square meters?

- a) 500 sq. m
- b) 1000 sq. m
- c) 2000 sq. m
- d) 5000 sq. m

111 NITI Aayog stands for:

- a) National Institution for Transforming India
- b) National Institute for Transporting India
- c) National Institute for Training India
- d) National Institute for Traffic India

112 The settling velocity of a particle is 0.6 cm/s and the overflow rate of a horizontal clarifier is 0.8 cm/s. What percentage of particles is retained in the clarifier?

- a) 79%
- b) 82%
- c) 75%
- d) 88%

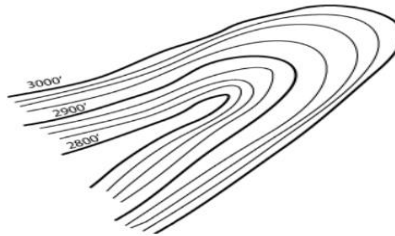
113 Choose the correct sequence of filtration processes used for sequential removal of particles.

- 1. Nanofiltration
- 2. Microfiltration
- 3. Ultrafiltration
- 4. Reverse Osmosis

Choose the correct sequence from the options given below

- a) 1, 2, 3, 4
- b) 3, 2, 1, 4
- c) 4, 3, 2, 1
- d) 2, 3, 1, 4

114 What kind of topographic landform is represented in the following illustration?



- a) Valley
- b) Ridge
- c) Hill
- d) Plain

- 115 Which Indian city was planned during Mughal period by Vidyadhar Bhattacharya?
- a) Kolkata
  - b) Madurai
  - c) Golkunda
  - d) Jaipur
- 116 Which of the following is the largest brackish water lagoon in Asia?
- a) Loktak Lakee
  - b) Chilika Lak
  - c) Wular Lake
  - d) Nal Sarovar
- 117 Which Article of 74<sup>th</sup> Constitutional Amendment Act provides for Constitution of Metropolitan Planning Committees?
- a) 234 ZE
  - b) 243 ZE
  - c) 247 ZE
  - d) 242 ZE
- 118 Arrange the following Mass Transport systems in terms of their carrying capacities starting with highest to lowest and choose the correct option
- 1. Metro Rail
  - 2. BRTS
  - 3. Tramway
  - 4. Monorail
- a) 1 2 3 4
  - b) 4 3 2 1
  - c) 1 4 3 2
  - d) 3 4 2 1
- 119 Sustainable Development Goals (SDG) have specific targets to be achieved by
- a) 2022
  - b) 2030
  - c) 2040
  - d) 2050
- 120 Golden Quadrilateral project in India relates to
- a) Railway transport project
  - b) Roadway transport project
  - c) Industrial corridor project
  - d) Waterway project

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## **SPACE FOR ROUGH WORK**