PUNJAB PUBLIC SERVICE COMMISSION

Objective Type Test (Dec-2018) for Recruitment of Assistant Town Planner in the Department of Housing and Urban Development, Government of Punjab

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

Total Questions: 120
Time Allowed: 2 Hours 30 Minutes

Candidate's Name _____

Father's Name _____

Date of Birth [ ] [ ] [ ]   **Category Code*** [ ]
　　　　　　　DD　　MM　　YYYY　　　　　　(*as given in the admit card)

OMR Response Sheet No. _____

Roll No. _____

Candidate's Signature (Please sign in the box)

Question Booklet Set

B

Booklet Series No.

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 150 minutes, except for orthopedically/visually impaired candidates, who would be given 50 extra minutes, by marking correct responses on the OMR sheet.

5. The candidates, <u>when allowed to open</u> the question paper booklet, <u>must first check the entire booklet</u> 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.

6. 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.

7. The question paper booklet has 20 pages.

8. The paper consists of total 300 Marks. Each question shall carry 2.5 marks. There are four options for each question and the candidate has to mark the <u>MOST APPROPRIATE answer</u> on the OMR response sheet.

9. There is no negative marking for wrong answers or questions not attempted by the candidate.

10. The candidate **MUST READ INSTRUCTIONS BEHIND THE OMR SHEET** before start answering the Questions and check that two carbon copies attached to the OMR sheet are intact.

1. Who among the following is CEC (Chief Election Commissioner) of India?
    a) O P Rawat
    b) Sunil Arora
    c) Nasim Zaidi
    d) Achal Kumar Jyoti

2. Some of the native states refused to join the Indian Union till the last minute. Point out the odd one.
    a) Travancore
    b) Hyderabad
    c) Junagadh
    d) Rajkot

3. The Comptroller and Auditor General is appointed by
    a) The Prime Minister
    b) The President
    c) The Parliament
    d) The President on the advice of the Parliament

4. The Attorney General of India is:
    a) The highest legal officer of the Union Government
    b) The highest financial officer of the Union Government
    c) The highest financial as well as legal officer of the Union Government
    d) None of the above

5. Basel III norms have been prescribed for:
    a) Preventing and detecting money laundering
    b) Preventing adulteration of food and confectionery
    c) Improving banking system's ability to withstand shocks
    d) Overcoming the threats posed to civil aviation due to terrorism

6. The Mesopotamian civilization is associated with
    a) Invention of wheel
    b) Pythagoras theorem
    c) Cyclopean masonry
    d) Stonehenge

7. The concept of "The industrial city" was given by
    a) Lewis Mumford
    b) Ebenezer Howard
    c) Tony Garnier
    d) Patrick Geddes

8. Match the Planning approaches in Group –A with their concepts in Group – B

	Group –A		Group – B
i.	Smart Planning	a.	Planner as mouthpiece of community
ii.	Advocacy Planning	b.	Prescriptive in nature
iii.	Inclusive Planning	c.	Use of data in decision making for optimization of resources
iv.	Normative Planning	d.	Planning for marginalized section of society

Choose the answer with correct pairs
   a) i-d, ii-a, iii-c, iv-b
   b) i.-c, ii-d, iii-a, iv- b
   c) i-c, ii-a, iii-d, iv- b
   d) i-b, ii-a, iii-d, iv-c

9. The renewal of Paris was done by
   a) Haussman
   b) Clarence A Perry
   c) Tony Garnier
   d) Soriya D Mata

10. The street which discourage through traffic from neighborhood is
   a) Cul-de-sac
   b) Grid iron
   c) Radial
   d) Circular

11. Which statement is TRUE for Layer command in AutoCAD
   a) If a layer is Off, it will not be plotted even if Plot is On
   b) If a layer is On, it will be plotted even if Do Not Plot is On
   c) If a layer is Off, it will be plotted if Plot is On
   d) If a layer is Lock, it will not be plotted even if Plot is On

12. The command used for multiple copy of an Object is
   a) Block
   b) Move
   c) Insert
   d) Array

13. Match the Land Use given in Group –A with their conventional color symbol in Group – B

	Group –A		Group – B
i.	Residential	a.	Red
ii.	Commercial	b.	Violet

iii.	Industrial	c.	Blue
iv.	Public and Semi public	d.	Yellow

Choose the answer with correct pairs
- a) i-a, ii-c, iii-b, iv-d
- b) i.-d ii-a, iii-b, iv- c
- c) i-d, ii-a, iii-c, iv- b
- d) i-d, ii-c, iii-b, iv-a

14. The water supply standard for as indicated by CPHEEO for cities with piped water supply and sewerage system and Metropolitan cite is
- a) 135 lpcd and 135 lpcd respectively
- b) 15o lpcd and 135 lpcd respectively
- c) 135 lpcd and 150 lpcd respectively
- d) 100lpcd and 135 lpcd respectively

15. Which one of the following is NOT a sewage treatment process?
- a) Duckweed pond system
- b) Eutrophication
- c) Activated Sludge Process
- d) Water Stabilization Pond System

16. Which of the following statements is TRUE with respect to "Avoid, Shift and Improve" strategy of National Urban Transport Policy

- i. Avoid refers to avoiding increase in demand
- ii. Shift refers from personal to public transport and non-motorized options
- iii. Improve refers to clean fuel and clean vehicle technology
- iv. Avoid refers to avoiding decrease in demand

- a) Statement i,iii, iv are correct and ii is incorrect
- b) Statement i,ii, iv are correct and iii is incorrect
- c) Statement i,ii, iii are correct and iv is incorrect
- d) Statement ii,iii, iv are correct and i is incorrect

17. Xeriscaping is way of landscaping suitable for
- a) Marshy land
- b) Area with high water tables
- c) Desert
- d) Hilly region

18. Match the Indian Trees in Group –A with their Botanical Names in Group – B

	Group –A		Group – B
i.	Amaltas	a.	Azadirachta indica
ii.	Neem	b.	Mangifera indica
iii.	Mango	c.	Ficus religiosa
iv.	Peepal	d.	Cassia fistula

Choose the answer with correct pairs
   a) i-a, ii-b, iii-c, iv-d
   b) i.-b ii-c, iii-d, iv- a
   c) i-c, ii-d, iii-a, iv- b
   d) i-d, ii-a, iii-b, iv-c

19. Which of the following changes in the financial market will lead to a decline in interest rates
   a) Rise in demand
   b) Fall in demand
   c) Rise in supply
   d) Fall in supply

20. The Developed Area Average Density as per URDPFI guidelines for plain areas in Large cities and Metropolitan cities should be in the range of
   a) 50 to 100 persons per hectare
   b) 100 to 125 persons per hectare
   c) 125 to 175 persons per hectare
   d) 175 to 225 persons per hectare

21. Organization namely GFDRR, ASRC and SDMC are associated with
   a) Environmental Planning
   b) Intelligent City
   c) Disaster Mitigation
   d) Climate Change

22. The strategy to reduce the disaster adopted by United Nation International Strategy for Disaster Risk Reduction promotes
   a) Rehabilitation
   b) Culture of prevention
   c) Preparedness for disaster
   d) None of the above

23. What is Black spot in reference to road safety?
   a) Accident-prone area
   b) Traffic island to prevent accidents
   c) Intersection with grade separator
   d) Narrow bridge with one way traffic

24. The satellite maintained by ISRO launched in 2016 with panchromatic camera is
   a) INSAT 1-A
   b) Cartosat-2C
   c) Rohini
   d) Apple

25. Which one of the following is NOT used in Solid Waste Management
    a) Incineration
    b) Composting
    c) Hoeing
    d) Landfill

26. The five elements contributing to "The City Image" are
    a) Node, Pathways, Edge, Landmark and Districts
    b) Streets, Skyline, Edge, Landmark and Districts
    c) Node, Pathways, Edge, Neighborhood and Districts
    d) Node, Pathways, Edge, Landmark and CBD

27. A commercial plot measures 100 m x 80 m. If the permissible Floor Area Ratio (FAR) is 3.0, and 50% of the ground is covered, then the maximum number of floors that can be built is
    a) Three
    b) Four
    c) Six
    d) Twelve

28. A town with a population of 50000 has an average household size of 5.0. the number of occupied dwelling units is 8400 of which 10% are in dilapidated condition. The housing demand of the town is
    a) 760
    b) 1600
    c) 2440
    d) 10840

29. In landscaping Mulching and pruning refers to
    a) Covering soil with wooden chips and trimming of plants respectively
    b) Trimming of plants and covering soil with wooden chips respectively
    c) Removing weeds and trimming of plants respectively
    d) Removing weeds and planting saplings respectively

30. A Vegetated Swale is provided to
    a) Slow, filter and infiltrate storm water runoff
    b) Phytoremediation
    c) Facilitate speedy surface runoff in water logged areas
    d) Used for irrigation

31. The population of a town A is shown in given below. Estimate the population in year 2021 using Arithmetic Projection method

Year	Population
1981	1,00,000
1991	1,10,000
2001	1,25,000
2011	1,40,000

a) 1,55,000
b) 1,45,000
c) 1,65,000
d) 1,75,000

32. Choose the correct pairs from the following
    a) C A Doxiadis - Islamabad and Le Corbusier- Bhubaneswar
    b) C A Doxiadis - Islamabad and O Koenigsberger- Bhubaneswar
    c) Le Corbusier - Islamabad and O Koenigsberger- Bhubaneswar
    d) C A Doxiadis - Islamabad and Le Corbusier Bhubaneswar

33. Choose the Correct statement
    a) Core Periphery Theory highlights the inequality in development of Core and periphery
    b) Bid rent theory promotes rental and transit housing
    c) Cluster Theory promotes Neighborhood planning
    d) Transit oriented Development promotes Private Vehicle Ownership

34. The essential difference between CPM and PERT respectively is
    a) Control cost of project vs. Control workforce
    b) Repetitive vs. continuous
    c) Deterministic approach vs. Probabilistic approach
    d) Quality control vs. Activity Control

35. The Integrated Cluster Action Plan are to be prepared under
    a) Pradhan Mantri Grameen Sadak Yojana
    b) Jawaharlal Nehru National Urban Renewal Mission
    c) National urban Livelihoods Mission
    d) National Rurban Mission

36. Read the statement given below and choose the correct answers

    As per Census of India 2011, Urban agglomeration refers to

    i.   A city or a town with a continuous outgrowth being outside the statutory limits but falling within the boundaries of the adjoining village or villages
    ii.   Two or more adjoining towns with their outgrowth
    iii.   A city and one or more adjoining towns with or without outgrowths all of which form a continuous spread
    iv.   A density of population of at least 500 per square kilometer.

    a) Statement i, ii, iii are correct and iv is incorrect
    b) Statement i, ii, iv are correct and iii is incorrect
    c) Statement i, iii, iv are correct and ii is incorrect
    d) Statement ii, iii, iv are correct and i is incorrect

37. The Ministry of Housing and Urban Affairs, Government of India has launched a scheming 2015 with focus on holistic development of heritage cities in the name of
    a) National Heritage Core Development and Augmentation Yojana
    b) National Historic City Development and Augmentation Yojana
    c) National Heritage City Development and Augmentation Yojana
    d) National Historic Core Development and Augmentation Yojana

38. Match the Projects in Group –A with their objectives in Group – B

	Group –A		Group – B
i.	Smart city	a.	Urban Rejuvenation
ii.	AMRUT	b.	Housing for poor
iii.	Swachh Bharat Mission	c.	Area Based development
iv.	PMAY	d.	Elimination of open defecation

Choose the answer with correct pairs
    a) i-b, ii-a, iii-c, iv-d
    b) i.-c, ii-d, iii-a, iv- b
    c) i-c, ii-a, iii-d, iv- b
    d) i-b, ii-a, iii-d, iv-c

39. Match the Planning terms in Group –A with their description in Group – B

	Group –A		Group – B
i.	Conurbation	a.	Science of human settlements
ii.	Ekistics	b.	Polycentric urban agglomeration
iii.	Satellite town	c.	Redeveloping cities
iv.	Urban renewal	d.	Settlement with functional dependency on parent city

Choose the answer with correct pairs
    a) i-b, ii-a, iii-d, iv-c
    b) i.-c, ii-d, iii-a, iv- b
    c) i-c, ii-a, iii-d, iv- b
    d) i-b, ii-a, iii-c, iv-d

40. A lady starts from her residence and uses the following modes in sequence to reach shopping mall-
    Cycle rickshaw to metro railway station, then metro train to destination station, followed by taxi to nearby bus stand and finally a bus to shopping mall. Which of the following describes her sequence of transit usage?
    a) Non-motorized Transit – Para transit – Mass Transit – Public Transit
    b) Para transit – Public Transit – Non Motorized Transit – Mass Transit
    c) Private Transit – Public Transit – Non Motorized Transit – Mass Transit
    d) Non-motorized Transit – Mass Transit – Para transit – Public Transit

41. Choose the correct pair of theory and their propagator
    a) Sector Theory- Clarence Perry, Multiple nuclei model-Harris and Ullman and Central place theory- Christaller
    b) Sector Theory- Hoyt, Multiple nuclei model-Harris and Ullman and Central place theory- Christaller

c) Sector Theory- Hoyt, Multiple nuclei model-Haussman and Ullman and Central place theory- Christaller

d) Sector Theory- Hoyt, Multiple nuclei model-Haussman and Ullman and Central place theory- Howard

42. Income inequalities across population is expressed through
   a) Lorenz curve
   b) Indifference curve
   c) Inverted U curve
   d) Cohort analysis

43. The Venice Charter focuses on
   a) Carbon emission
   b) Living heritage
   c) Conservation and Restoration of monuments
   d) Biodiversity

44. The cities given in Group A are associated with different civilizations give in Group B choose the correct pair

	Group –A		Group – B
i.	Mohan ja daro	a.	Nile Valley Civilization
ii.	Akheteton	b.	Yellow River Civilization
iii.	Uruk	c.	Euphrates and Tigris Valley Civilization
iv.	Shang	d.	Indus Valley Civilization

   a) i-d, ii-b, iii-c, iv-d
   b) i.-d, ii-c, iii-d, iv-a
   c) i-d, ii-c, iii-a, iv- b
   d) i-d ii-a, iii-c, iv-b

45. Ecological footprint can be defined as
   a) The area of land required for human to produce goods consumed and to assimilate the wastes generated
   b) Per capita land required meeting the food demand by human
   c) Per capita forest cut to meet the demand of human
   d) The land area required for settlement per person per capita

46. The estimate of activity duration in PERT in Group A and their expression are given in Group B choose the correct pairs

	Group –A		Group – B
i.	Optimistic Time	a.	minimum possible time by which an activity can be completed
ii.	Pessimistic time	b.	maximum possible time by which an activity can be completed
iii.	Most likely time	c.	time for completion of an activity, which is neither optimistic nor pessimistic

a) i-a, ii-c, iii-b
b) i.-b, ii-a, iii-c
c) i-a, ii-b, iii-c
d) i-c ii-a, iii-b

47. The purpose of the Gannt Chart is
    a) To illustrate project schedule
    b) To compare alternative cost
    c) To illustrate cost of labor and material
    d) None of the above

48. The city of Copenhagen is planned like a
    a) Linear City
    b) Radiant city
    c) Finger Plan
    d) Constellation Plan

49. The information which is not necessary to be shown on approval drawings is
    a) Owner's Name
    b) Property address
    c) Project cost
    d) Plan, elevation and section

50. The most appropriate measure to reduce site development cost is
    a) Reduce road length
    b) Increase open space
    c) Eliminate landscaping
    d) Reduce Right of Way

51. Which one of the following is not a traffic control measure?
    a) Speed breakers
    b) Traffic signage
    c) Streetlight
    d) Foot Over Bridge

52. The difference between "Land Use" and "Land Cover" is
    a) Land Use is for Development Plan and Land Cover for Regional Plan
    b) Land Use is only for Urban whereas Land Cover is for Urban and Rural both
    c) Land Use is associated with function and Land Cover with surface cover of ground
    d) Land use is Man Made and Land Cover is Natural

53. In GIS Voxel represents
    a) Data in Raster format
    b) Value on a three dimensional space
    c) Non Spatial data
    d) 2D Image data

54. Which one of the following is not used as Principle of Urban Design
    a) Legibility
    b) Imageability
    c) Monotony
    d) Diversity

55. Which one of the following is Rating System for Green Buildings in India
    a) Green Rating for Integrated Habitat Assessment
    b) Comprehensive Assessment System for Built Environment Efficiency
    c) U.S. Green Building Council
    d) The Energy and Resource Institute

56. Development of town planning in ancient India (Indus valley civilization) had its beginning
    a) 320 BC
    b) 400 BC
    c) 3000 BC
    d) 1526 AD

57. During the medieval period, towns planning style was
    a) Chessboard
    b) Regular pattern
    c) Irregular street patterns with heavy walls
    d) Grid iron pattern

58. The mission of Housing for all scheme is to be achieved by
    a) 2020
    b) 2025
    c) 2022
    d) 2028

59. In the Road system within urban area, the "Arterial roads" can be categorized as
    a) Primary Distributors
    b) District Distributors
    c) Local Distributors
    d) Access roads

60. In the existing Indian Road Network, the maximum share of roads belong to:
    a) Expressway
    b) National Highways
    c) State Highway
    d) Village and other roads

61. The first 20 year Road Development plan is popularly known as the
    a) Lucknow Road plan
    b) Bombay Road plan
    c) Nagpur Road plan
    d) Indian Road Congress Highway Research Board

62. In Grease traps, FOG is referred to
    a) Food, Oxygen (O_2), Grease
    b) Food, Oil, Grease
    c) Fat, Oil, Grease
    d) Food, Oil, Grease

63. GST as applicable on all Planning services rendered in India is
    a) 5%
    b) 15%
    c) 18%
    d) 28%

64. "Radial city plan'' concept of urban planning was adopted in which of the following city
    a) Copenhagen
    b) Moscow
    c) Chandigarh
    d) Mumbai

65. As per the Concentric zone model of city planning, which of the following is not one of the listed zones
    a) Zone of better housing
    b) Commuter zone
    c) Zone of depletion
    d) Zone of transition

66. The town planning primarily meant established in organic relationship among Folk (Social aspect), Place (Physical aspect), and Work (Economical aspect). This principle of planning has enunciated by
    a) Sir Patrick Geddes
    b) Sir Ebenezer Howard
    c) Baron Haussmann
    d) Clearance Stein

67. Which was the first city in India to introduce Heritage TDR?
    a) Surat
    b) Amaravati
    c) Mumbai
    d) Chandigarh

68. Which Indian city is the first to make it to the UNESCO World Heritage List?
    a) Chennai
    b) Kochi
    c) Hyderabad
    d) Ahmadabad

69. General consideration for Modal split
    a) It is the process of separating person – trips by the mode of travel
    b) It is a usually expressed as a fraction, ratio or percentage of the total no. of trips
    c) It is referred to the trips made by private car as opposed to public transport
    d) All of the above

70. As per Urban development ministry, New city livability index guidelines, essential green space per person is
    a) 5 sq. m.
    b) 10 Sq. m.
    c) 15 Sq. m.
    d) None of the above

71. The process of designing and shaping the physical features of cities is known as
    a) Urban Development
    b) Urban Landscaping
    c) Urban Design
    d) Architectural Design

72. The zone which covers largest area in a town is
    a) Civic Zone
    b) Recreational Zone
    c) Residential Zone
    d) Institutional Zone

73. If the Earned Value is equal to Actual Cost, it means
    a) Project is on budget and on schedule.
    b) Project is on budget but not on schedule.
    c) Project is not on budget but on schedule.
    d) project is not on budget and not on schedule

74. For the repetitive work activities, such as roads, pipelines, tunnels, which tool is used?
    a) Bar Chart
    b) Mile Stone Chart
    c) Line of Balance
    d) All of the above

75. The length of time required for an investment to recover its initial outlay in terms of profits or savings is
    a) Payback Period
    b) Maintenance Period
    c) Time over Run
    d) Liquidated Damage

76. Activity A and B Starts at 5th Day from the starting of project so what is the relation between them
    a) Sequential Activity
    b) Parallel Activity
    c) Overlapping Activity
    d) Dummy Activity

77. If Project is having cash flows which are sufficient to repay capital invested for rate of return then net present value for such project will be?
    a) Negative
    b) Independent
    c) Zero
    d) Positive

78. In Hypothesis testing, Type I error occurs when
    a) If Hypothesis H is True and failed to reject
    b) If Hypothesis H is False and rejected
    c) If Hypothesis H is True but rejected
    d) If Hypothesis H is False but failed to reject

79. The _____ is often preferred measure of central tendency if the data are severely skewed
    a) Mean
    b) Median
    c) Mode
    d) Range

80. It is recommended to use the entire population rather than a sample when the population size is
    a) 100 or less
    b) 600 or less
    c) 1000 or less
    d) None of the above

81. As per the Census of India 2011, which is not fulfilling the criteria for urban area definition
    a) A minimum population of 5,000
    b) At least 75 per cent of the male working population engaged in non-agricultural pursuits
    c) A density of population of at least 400 persons per sq. km.
    d) At least 75 per cent of population engaged in non-agricultural activities

82. As per PUDA Building Rules, the minimum approach road width for residential plots is
    a) 6 m
    b) 9 m
    c) 12 m
    d) 15 m

83. The process of renovating deteriorated urban neighborhoods by means of the influx of more affluent residents is called as
   a) Modernization
   b) Retrofitting
   c) Gentrification
   d) Alteration

84. Transit Oriented Development (TOD) aims to
   a) Increase public transport ridership
   b) Increase Household Driving
   c) Increase walking distance
   d) Increase public amenities

85. Highest urbanized state in India
   a) Gujarat
   b) Tamil Nadu
   c) Goa
   d) Andhra Pradesh

86. As per Census, to Identify "Slum Pocket" in Urban Area, the minimum Households (H) and at least Population (P) required?
   a) H = 50 to 60;   P = 200
   b) H = 60 to 70;   P = 250
   c) H = 60 to70;   P = 300
   d) H = 70 to 100; P = 500

87. To control the heights of High Rise Building, Air plane rules for the ratio of height to width of the road will be 1:1 in case of
   a) 45^0
   b) 63.5^0
   c) 30^0
   d) 33.5^0

88. Maximum Acceptable sound levels in the residential areas during night
   a) 30 dB
   b) 35 dB
   c) 40 dB
   d) 45 dB

89. First presidency in India was setup at _____
   a) Bombay
   b) Calcutta
   c) Madras
   d) Bhubaneswar

90. The reform in planning system is desirable for Master plan approach, it is due to the master plan suffers from the following deficiencies
   i. Long term plan (20 years) which cannot accommodate changes in a fast changing scenario
   ii. Preparation/approval takes long time making the plan out of date even before implementation
   iii. Lack of integration with investment
   iv. Ineffective monitoring and review mechanism
   Which of the above are true?
   a) i only
   b) ii & iii only
   c) i, ii &iv only
   d) i, ii, iii and iv

91. Match the following

   P. National policies   1. JnNURM
   Q. Programs   2. National Urbanization Policy
   R. Guidelines   3. Modern Urban and Regional
                                        Planning and Development law
   S. Model laws   4. URDPFI

   a) P-1, Q-2, R-3, S-4
   b) P-2, Q-1, R-4, S-3
   c) P-1, Q-4, R-3, S-2
   d) P-1, Q-2, R-4, S-3

92. According to Code of professional conduct – which is not a basic ethic of a spatial planner?
   a) Serve the public ethics
   b) promote excellence in professional output
   c) seek social justice and equity without any discrimination
   d) non-conservation of heritage for new development

93. The technical head of town and Country Planning Organization (TCPO) is the
   a) Additional Secretary
   b) Chairman
   c) Chief Planner
   d) Town & Country Planner

94. As per 2011 census India, In Kannur Urban Agglomeration (UA) the female population exceeded male population and topped in sex ratio with 1168.
   The Kannur UA located in which state
   a) Andhra Pradesh
   b) Gujarat
   c) Maharashtra
   d) Kerala

95. Not in my backyard (NIMBY) is a concept referring to
   a) Resists back to back development
   b) Resists planting in backyards of residents
   c) Resists development in their local area by residents
   d) Resists provision of lawns

96. The main purpose of public participation in planning is
    i. To involve citizens in planning
    ii. To involve citizens in Decision making
    iii. To promote a sense of community by bringing people together who share common goals in planning and development
    iv. To get more innovative ideas and to get overall quality improvement in environment by providing citizen to voice

    a) i & iii
    b) i & ii
    c) ii, iii & iv
    d) i, ii, iii & iv

97. Select the correct process of Design and Implementation of Public Participation
    a) Preliminary Design, Developing the Plan, Implementation, Feedback
    b) Feedback, Preliminary Design, Developing the Plan, Implementation
    c) Preliminary Design, Feedback, Developing the Plan, Implementation
    d) Developing the Plan, Preliminary Design, Feedback, Implementation

98. The main objective of Indian Tourism Development Corporation (ITDC) are
    a) To provide transport, entertainment, shopping and conventional services
    b) To produce, distribute, tourist publicity material;
    c) To render consultancy-cum-managerial services in India and abroad
    d) All of the above

99. Consider the following
    i. Climatic conditions
    ii. Cultural influences
    iii. Topography
    Which of the above affects the planning in hilly areas?

    a) Only i
    b) i & ii
    c) ii & iii
    d) i, ii & iii

100. Which of the following activities are covered by Disaster Management before, during and after a disaster?
    a) Reconstruction and Rehabilitation
    b) Mitigation
    c) Emergency response
    d) All the above

101. The difference between a hurricane, a cyclone, and a typhoon is
    a) Intensity
    b) Location
    c) Damage
    d) All of the above

102. In CAD, if a line is drawn between points (3,4) and (-1,4); its absolute length shall be
      a) Three units
      b) Four units
      c) One unit
      d) Two Units

103. Contour lines with V-shaped with convexity towards higher ground indicate?
      a) Hill
      b) Valley
      c) Overhanging cliff
      d) Pond

104. Fortification is used for which of the following town
      a) Military towns
      b) Census towns
      c) Industrial towns
      d) Satellite towns

105. The first city to adopt V8 system of transportation in India
      a) Gandhinagar
      b) Chandigarh
      c) New Delhi
      d) Visakhapatnam

Direction (Q 106-107): Find the missing term

106. 9, 27, 31, 155, 161, 1127, ?
      a) 316
      b) 1135
      c) 1288
      d) 2254

107. 2, 3, 3, 5, 10, 13, ?, 43, 172, 177
      a) 23
      b) 38
      c) 39
      d) 40

Directions: (Q 108) In each of the following letter series, some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

108. ab _ aa _ bbb _ aaa _ bbba
      a) abba
      b) baab
      c) aaab
      d) abab

Directions (Q 109-112) Study the following information carefully and answer the given questions:

A Business school with six Professors L, M, N, O, P and Q, has decided to implement a new scheme of course management. Each professor has to coordinate one course and support another course. This semester, O's support course is Finance, while three others have it in coordinator's role. P and Q have Marketing as one of their subjects. Q coordinates Operations, which is a support course for both N and P. Finance and IT are L's subjects. Both L and O have same subjects. Strategy is a support course for only one of the Professors.

109. Who coordinates the IT course?

    a) L

    b) N

    c) O

    d) None of these

110. Which course is supported by M?

    a) Operations

    b) IT

    c) Strategy

    d) Finance

111. Who among the following are coordinating the Finance course?

    a) L and N

    b) N and O

    c) L, M and N

    d) M, N and O

112. Which course has only one coordinator and one support Professor?

    a) Strategy

    b) Marketing

    c) Operations

    d) Finance

113. A villager went to meet his uncle in another village situated 5 km away in the North-east direction of his own village. From there he came to meet his father-in-law living in a village situated 4km in the south of his uncle's village. How far away and in what direction is he now?

    a) 3 km in the North

    b) 3 km in the East

    c) 4 km in the East

    d) 4 km in the West

114. A walks 10 metres in front and 10 metres to the right. Then every time turning 20m. Then, turning to the North, she goes 30m and then starts walking to her house. In which direction is she walking now?
a) 5 metres
b) 10 metres
c) 15 metres
d) 20 metres

115. If the letters of the word TRANSFORM are rearranged as they appear in the English alphabet, then the position of how many letters will remain unchanged after such rearrangement?
a) None
b) One
c) Two
d) Three

116. Who among the following is Deputy Speaker of the current Punjab Legislative Assembly?
a) K P Singh
b) Harpal Cheema
c) Ajaib Singh Bhatti
d) Sukhpal Khaira

117. Match the following:

	City		River
1)	Kolkata	(A)	Musi
2)	Hyderabad	(B)	Godavari
3)	Nasik	(C)	Brahmputra
4)	Dibrugarh	(D)	Hooghly

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

118. Match the following:

	Author		Book
1)	Arundhati Roy	(A)	The God of small things
2)	Salman Rushdie	(B)	Midnight's Children
3)	Yann Martel	(C)	Life of Pi
4)	Kiran Desai	(D)	The inheritance of loss

a) 1 (A)   2 (B)   3(C)   4(D)

b) 1 (D)   2 (B)   3(C)   4(A)

c) 1 (B)   2 (C)   3(D)   4(A)

d) 1 (C)   2 (A)   3(B)   4(D)

119. Match the following:

	Nobel Prize Winners		Field
1)	Kailash Satyarthi	(A)	Medicine
2)	Hargobind Khorana	(B)	Literature
3)	Rudyard Kipling	(C)	Peace
4)	S Chandrashekhar	(D)	Physics

a) 1 (B)   2 (C)   3(A)   4(D)

b) 1 (C)   2 (A)   3(B)   4(D)

c) 1 (A)   2 (B)   3(C)   4(D)

d) 1 (D)   2 (B)   3(A)   4(C)

120. Mohiniyattam is a classical Indian dance from

a) Kerala

b) Andhra Pradesh

c) Karnatka

d) Tamil Nadu

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