

BUJ
PROVISIONAL ANSWER KEY

Name of the post	Assistant Professor, Geography in Government Arts, Science & Commerce College, GES, Class-2 (Special Recruitment-PwD-Second Attempt)
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THE LINK FOR ONLINE OBJECTION SYSTEM WILL START FROM 23-06-2026; 11:00 AM ONWARDS

Instructions / સૂચન

Candidate must ensure compliance to the instructions mentioned below, else objections shall not be considered: -

- (1) Candidates have to pay fees of Rs.100/- for each objection. The fees can be paid from the link given herewith.
- (2) The Candidate will be able to submit objection only after payment of the fees. The generation of the receipt will only be considered as final submission.
- (3) The Candidate must retain the receipt of the payment of the fees. The fees, once paid, will not be refunded under any circumstances.
- (4) All the objections should be submitted through **ONLINE OBJECTION SUBMISSION SYSTEM** only. Physical or submission through any other means will not be considered.
- (5) All objections are to be submitted with reference to the Master Question Paper published with provisional answer key, published herewith on the website / online objection submission system. Objections should be sent referring to the Question No. & options of the Master Question Paper. Objections regarding question nos. and options other than provisional answer key (Master Question Paper) shall not be considered.
- (6) Objections and answers suggested by the candidate should be in compliance with the responses given by him in his answer sheet. Objections shall not be considered, in case, if responses given in the answer sheet /response sheet and submitted objections are differed.
- (7) Supportive document to the objection must be uploaded, without which objection will not be considered.
- (8) Objections must be supported by authentic references or documentary evidence. Objections based solely on AI, GPT, or similar tools without supporting evidence shall not be considered. For calculation-based, mathematical, statistical, or reasoning questions, candidates shall provide the relevant calculation, methodology, or logical basis in support of the objection.

ઉમેદવારે નીચેની સૂચનાઓનું પાલન કરવાની તકેદારી રાખવી, અન્યથા વાંધા-સૂચન અંગે કરેલ રજૂઆતો ધ્યાને લેવાશે નહીં

- (1) ઉમેદવારે દરેક વાંધા દીઠ રૂપિયા ૧૦૦/- ફી ભરવાની રહેશે. જે ફી આ સાથે આપેલ લીંક ઉપરથી ભરી શકાશે.
- (2) ફી ભર્યા બાદ જ વાંધો સબમીટ થઈ શકશે. ફી ભર્યાની આખરી પહોંચ જ આખરી સબમીશન ગણાશે.
- (3) ફી ભર્યાની પહોંચ ઉમેદવારે સાચવી રાખવાની રહેશે. એક વાર ભરેલ ફી કોઈ પણ પરિસ્થિતિમાં પરત આપવામાં આવશે નહિ.
- (4) વાંધા ફક્ત **ઓનલાઈન ઓબ્જેક્શન સબમીશન સીસ્ટમ** દ્વારા જ સબમીટ કરવાના રહેશે. રૂબરૂ, ટપાલ અથવા ઈ-મેઈલ કે અન્ય કોઈ રીતે આયોગને મોકલવામાં આવેલ વાંધા ધ્યાને લેવામાં આવશે નહીં, જેની ખાસ નોંધ લેવી.

- (5) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ ન કરતાં, તમામ વાંધા-સૂચનો વેબસાઈટ પર પ્રસિધ્ધ થયેલ પ્રોવિઝનલ આન્સર કી(માસ્ટર પ્રશ્નપત્ર) ના પ્રશ્નક્રમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા. માસ્ટર પ્રશ્નપત્રમાં નિર્દિષ્ટ પ્રશ્ન અને વિકલ્પ સિવાયના વાંધા ધ્યાને લેવામાં આવશે નહીં.
- (6) ઉમેદવારે પ્રશ્નના વિકલ્પ પર વાંધો રજૂ કરેલ છે અને વિકલ્પ રૂપે જે જવાબ સૂચવેલ છે એ જવાબ ઉમેદવારે પોતાની ઉત્તરવહીમાં આપેલ હોવો જોઈએ. ઉમેદવારે સૂચવેલ જવાબ અને ઉત્તરવહીનો જવાબ ભિન્ન હશે તો ઉમેદવારે રજૂ કરેલ વાંધા ધ્યાને લેવાશે નહીં.
- (7) વાંધા માટે સંદર્ભ જોડવો આવશ્યક છે, જેના વિના વાંધો ધ્યાને લેવામાં આવશે નહીં.
- (8) વાંધો પ્રમાણભૂત અને અધિકૃત સંદર્ભો અથવા દસ્તાવેજી પુરાવાથી સમર્થિત હોવો આવશ્યક છે. માત્ર AI, GPT અથવા સમાન સાધનો દ્વારા જનરેટ કરાયેલ અને આધારભૂત પુરાવા વિનાના વાંધાઓની વિચારણા કરવામાં આવશે નહીં. ગણતરી આધારિત, ગાણિતિક, આંકડાશાસ્ત્રીય અથવા તાર્કિક પ્રશ્નોના કિસ્સામાં ઉમેદવારે સંબંધિત ગણતરી, પદ્ધતિ અથવા તાર્કિક આધાર રજૂ કરવાનો રહેશે.

Website link for online objection submission system: https://www.formonline.co.in/GPSC_TRACK/SearchPage.aspx

- 1 In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): Continental drift explains the jigsaw-like fit between South America and Africa.

Reason (R): Similar fossils found on both continents support their former connection.

Choose the correct option:

- (A) Both A and R are true, and R is the correct explanation of A
(B) Both A and R are true, but R is not the correct explanation of A
(C) A is true, but R is false
(D) A is false, but R is true

- 2 Which of the following statements are correct?

1. Wegener failed to explain the driving mechanism of continental drift.
2. Fossils of *Glossopteris* are found in both India and Antarctica.
3. The scientific community immediately accepted the drift theory.

Choose the correct option:

- (A) 2 and 3 only
(B) 1 and 2 only
(C) 1 and 3 only
(D) All of the above

- 3 Arrange the following stages of Pangaea breakup:

1. Formation of Laurasia and Gondwana
2. Drift of India towards Eurasia
3. Breaking of Pangaea
4. Opening of the Atlantic Ocean

Choose the correct option:

- (A) 1 → 2 → 3 → 4
(B) 3 → 1 → 2 → 4
(C) 3 → 1 → 4 → 2
(D) 2 → 4 → 1 → 3

- 4 Match the plate boundaries with their features:

List I (Boundary)

List II (Feature)

A. Divergent

1. Mid-oceanic ridges

B. Convergent

2. Subduction zone

C. Transform

3. Fault lines

D. Collision (continental)

4. Fold mountains

Choose the correct option:

- (A) A-2, B-1, C-3, D-4
- (B) A-1, B-3, C-2, D-4
- (C) A-4, B-3, C-2, D-1
- (D) A-1, B-2, C-3, D-4**

5 Which of the following is/are features of ocean-ocean convergent boundaries?

- 1. Deep trenches
- 2. Rift valleys
- 3. Island arcs

Choose the correct option:

- (A) 1 and 2 only
- (B) 2 and 3 only
- (C) 1 and 3 only**
- (D) All of the above

6 Arrange the following processes logically:

- 1. Uplift of land
- 2. Deposition
- 3. Transportation
- 4. Erosion

Choose the correct option:

- (A) 1 → 2 → 3 → 4
- (B) 3 → 1 → 2 → 4
- (C) 3 → 1 → 4 → 2
- (D) 1 → 4 → 2 → 3**

7 In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): Exogenetic forces play no role in mountain formation.

Reason (R): Weathering and erosion only reduce elevation.

Choose the correct option:

- (A) Both A and R are true, and R is the correct explanation of A
- (B) Both A and R are true, but R is not the correct explanation of A**
- (C) A is true, but R is false
- (D) A is false, but R is true

8 Match the cycle stage with the landform:

- | | |
|-------------|---------------------|
| A. Youth | 1. V-shaped valleys |
| B. Maturity | 2. Meanders |
| C. Old age | 3. Peneplains |

Choose the correct option:

- (A) A-1, B-2, C-3
- (B) A-1, B-3, C-2
- (C) A-4, B-3, C-2
- (D) A-2, B-1, C-3

9 Which of the following is an Exogenetic force?

- (A) Earthquake
- (B) Volcanism
- (C) Folding
- (D) Frost action

10 Which of the following are considered endogenetic forces?

- 1. Earthquakes
- 2. Folding
- 3. Landslides
- 4. Volcanism

Choose the correct option:

- (A) 1 and 4 only
- (B) 1 and 2 only
- (C) 1, 2, and 4 only
- (D) All of the above

11 Match denudation agents with their dominant process:

List I (Agent)	List II (Process)
A. Wind	1. Deflation
B. River	2. Corrosion
C. Glacier	3. Plucking
D. Sea waves	4. Hydraulic action

Choose the correct option:

- (A) A-2, B-1, C-3, D-4
- (B) A-1, B-2, C-3, D-4
- (C) A-4, B-3, C-2, D-1
- (D) A-1, B-3, C-4, D-2

12 Which of the following are results of denudational processes?

- 1. Canyons
- 2. Inselbergs
- 3. Cliffs
- 4. Lava domes

Choose the correct option:

- (A) 1, 2 and 3 only
- (B) 1, 3 and 4 only
- (C) 2, 3 and 4 only
- (D) All of the above

13 Which type of weathering is dominant in humid tropical regions?

- (A) Physical
- (B) Biological
- (C) Mechanical
- (D) Chemical

14 In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): Davis emphasized time and stage in landscape evolution.

Reason (R): His model allows continuous tectonic uplift throughout all stages.

Choose the correct option:

- (A) Both A and R are true, and R is the correct explanation of A
- (B) Both A and R are true, but R is not the correct explanation of A
- (C) A is true, but R is false
- (D) A is false, but R is true

15 In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion A): Penck's model integrates tectonic and erosional forces.

Reason (R): Unlike Davis, Penck believed in sudden changes in uplift.

Choose the correct option:

- (A) Both A and R are true, and R is the correct explanation of A
- (B) Both A and R are true, but R is not the correct explanation of A
- (C) A is false, but R is true
- (D) A is true, but R is false

16 Which of the following are features of vulcanicity?

1. Stock
2. Batholiths
3. Sills
4. Inselbergs

Choose the correct option:

- (A) 1, 2 and 3 only
- (B) 1, 3 and 4 only
- (C) 2, 3 and 4 only
- (D) All of the above

17 Match the hazard type with its primary cause:

List I (Hazard) List II (Primary Cause)

- | | |
|---------------|----------------------------|
| A. Earthquake | 1. Rapid snow accumulation |
| B. Volcano | 2. Magma movement |
| C. Landslide | 3. Over-steepened slopes |
| D. Avalanche | 4. Tectonic movement |

Choose the correct option:

- (A) A-2, B-1, C-3, D-4
- ☒ (B) A-4, B-2, C-3, D-1
- (C) A-4, B-3, C-2, D-1
- (D) A-1, B-3, C-4, D-2

18 According to Penck, convex slopes are the result of:

- ☒ (A) Accelerating uplift
- (B) Waning uplift
- (C) Constant uplift
- (D) Marine erosion

19 Which of the following human activities can trigger landslides?

- 1. Overgrazing
- 2. Deforestation
- 3. Retaining Walls
- 4. Road cutting on slopes

Choose the correct option:

- (A) 1, 3 and 4 only
- ☒ (B) 1, 2 and 3 only
- (C) 2, 3 and 4 only
- (D) All of the above

20 Which pair of the following does not match correctly?

- A. Asia - Tethys geosyncline
- B. America - Appalachian geosyncline
- C. Great Britain - Caledonian geosyncline
- ☒ D. Australia - Ural geosyncline

21 Why are young fold mountains more prone to landslides and avalanches?

- (A) Presence of metamorphic rocks
- ☒ (B) Steep gradients and tectonic instability
- (C) Dense vegetation cover
- (D) Lack of surface water

- 22 Which one of the following minerals is not found in sedimentary rock formations?
- A. Gypsum
 - B. Mineral oil
 - C. Mica
 - D. Rock salt
- 23 Arrange the following gases in descending order based on their average proportion in the homosphere:
- A. Neon
 - B. Carbon dioxide
 - C. Argon
 - D. Oxygen
- Choose the correct option:
- (A) $D \rightarrow C \rightarrow A \rightarrow B$
 - (B) $D \rightarrow A \rightarrow C \rightarrow B$
 - (C) $D \rightarrow C \rightarrow B \rightarrow A$
 - (D) $A \rightarrow D \rightarrow C \rightarrow B$
- 24 Which of the following best explains the unequal heating (distribution of insolation) of the Earth's surface?
- A. Angle of incidence of solar radiation
 - B. Distance from the sun during revolution
 - C. Earth's axial tilt
 - D. Atmospheric composition variations
- Choose the correct option:
- (A) A and C only
 - (B) B and C only
 - (C) A, C and D only
 - (D) All of the above
- 25 Match the following types of cyclones with their associated regions:
- List I
- A. Tropical Cyclone
 - B. Temperate Cyclone
 - C. Tornado
 - D. Typhoon
- List II
- 1. South China Sea
 - 2. North Pacific
 - 3. Central USA
 - 4. Bay of Bengal

Choose the correct match:

- (A) A-4, B-2, C-3, D-1
- (B) A-1, B-3, C-2, D-4
- (C) A-4, B-3, C-2, D-1
- (D) A-3, B-4, C-1, D-2

26 Match List I with List II and choose the correct code:

List I (Climate Type – Köppen)

- A. Af
- B. Am
- C. BSh
- D. Cfb

List II (Characteristics)

- 1. Warm and wet throughout the year
- 2. Dry and semi-arid steppe conditions
- 3. Monsoonal with short dry season
- 4. Marine west coast, mild summers, and cool winters

Options:

- A. A-1, B-3, C-2, D-4
- B. A-3, B-1, C-2, D-4
- C. A-1, B-2, C-4, D-3
- D. A-4, B-2, C-1, D-3

27 Which of the following best describes the Southern Oscillation Index (SOI)?

- (A) Difference in sea surface temperature (SST) between Eastern and Western Pacific
- (B) Pressure difference between 'Darwin' and 'Tahiti'
- (C) Variation in trade wind strength
- (D) Frequency of cyclone occurrence in the Pacific

28 During an El Nino event, which of the following is *most likely* to occur?

- (A) Drought in Australia and Indonesia
- (B) Excess rainfall in India
- (C) Strengthening of Walker circulation
- (D) Strong upwelling near Peru

29 Which of the following evidences support the occurrence of historical climate change?

- A. Sea level fluctuations
- B. Dendrochronology (Tree ring analysis)
- C. Tectonic Indicators
- D. Faunal Indicators

Choose the correct option:

- (A) A and B only
- (B) A, B and D only
- (C) A and D only
- ☒ (D) All of the above

30 Which of the following gases plays the most important role in regulating the Earth's energy balance and weather systems, despite being variable in quantity?

- (A) Ozone
- (B) Methane
- ☒ (C) Water vapour
- (D) Argon

31 Match the atmospheric layers with their key characteristics:

List I

- A. Troposphere
- B. Stratosphere
- C. Mesosphere
- D. Thermosphere

List II

- 1. Site of auroras
- 2. Temperature decreases rapidly with altitude
- 3. Contains ozone layer
- 4. Weather phenomena occur

Options:

- ☒ (A) A-4, B-3, C-2, D-1
- (B) A-3, B-4, C-2, D-1
- (C) A-4, B-2, C-3, D-1
- (D) A-4, B-3, C-1, D-2

32 The angle of incidence of solar radiation influences the amount of insolation received because:

- (A) Vertical rays cover more area
- ☒ (B) Vertical rays concentrate energy on a smaller area
- (C) Oblique rays lose energy in space
- (D) The Earth rotates westward

33 Arrange the following stages of a mid-latitude cyclone in correct chronological order:

- 1. Occlusion stage
- 2. Initial stage (stationary front)
- 3. Mature stage (well-developed fronts)
- 4. Cyclogenesis (formation)

Options:

- A. $4 \rightarrow 2 \rightarrow 3 \rightarrow 1$
- B. $1 \rightarrow 2 \rightarrow 4 \rightarrow 3$
- C. $2 \rightarrow 4 \rightarrow 3 \rightarrow 1$**
- D. $2 \rightarrow 3 \rightarrow 4 \rightarrow 1$

34 Which of the following components contributes most to the Earth's outgoing longwave radiation?

- (A) Reflected solar radiation
- (B) Latent heat flux
- (C) Scattered radiation
- (D) Terrestrial radiation**

35 Which of the following statements is correct regarding temperature inversion?

- 1. It usually occurs during clear, calm winter nights.
- 2. It leads to poor air quality and the formation of smog.
- 3. It enhances vertical convection of air.
- 4. It is more frequent in hilly or valley regions.

Options:

- A. 1, 2 and 3 only
- B. 2, 3 and 4 only
- C. 1, 2 and 4 only**
- D. All of the above

36 The pressure gradient force acts:

- (A) Parallel to isobars
- (B) Perpendicular to isobars from high to low pressure**
- (C) From low to high pressure perpendicular to isobars
- (D) Randomly depending on the Coriolis effect

37 Temperate cyclones differ from tropical cyclones because they:

- (A) Are larger in size and frontal in origin**
- (B) Originate over oceans only
- (C) Are always accompanied by thunderstorms
- (D) Do not have defined warm cores

38 Thornthwaite's moisture index is derived from:

- (A) Temperature and actual evapotranspiration
- (B) Precipitation and potential evapotranspiration**
- (C) Wind speed and rainfall
- (D) Rainfall and temperature range

- 39 Which one of the following is most likely to trigger a tornado?
- (A) Warm, moist air over desert areas
 - (B) Weak surface pressure gradients
 - (C) Prolonged drought conditions
 - ☒ (D) Strong frontal convergence of warm and cold air masses
- 40 A Glacial Lake Outburst Flood (GLOF) is caused by:
- (A) Snow avalanches
 - (B) Earthquakes near the poles
 - ☒ (C) Sudden failure of the moraine dam
 - (D) Volcanoes under glaciers
- 41 Which activity contributes most to anthropogenic greenhouse gas emissions?
- (A) Industrial wastewater
 - (B) Urban vegetation loss
 - ☒ (C) Burning of fossil fuels
 - (D) Groundwater extraction
- 42 Which one of the following is not a factor affecting wind?
- A. Pressure gradient
 - B. Frictional force
 - C. Coriolis force
 - ☒ D. Gravitational force
- 43 Identify the type of air mass based on the following characteristics:
1. Produces rainfall on the windward side of mountains.
 2. Causes instability in the lower atmosphere and generates convective air currents.
 3. Originates in subpolar or Arctic regions.
- Select the correct answer using the codes below:
- A. Continental Polar Air Masses
 - ☒ B. Maritime Polar Air Masses
 - C. Continental Tropical Air Masses
 - D. Maritime Tropical Air Masses
- 44 Among the following rays in the electromagnetic spectrum, which has the longest wavelength (in angstroms)?
- A. Gamma Rays
 - B. Hard X-rays
 - C. Soft X-rays
 - ☒ D. Ultraviolet Rays

- 45 Which of the following rural settlement types is most commonly associated with regions of high rainfall and fertile alluvial soils?
- A) Linear
 - B) Dispersed
 - ☒ C) Clustered
 - D) Isolated
- 46 The star-shaped pattern of rural settlement is commonly associated with:
- A) Military towns
 - ☒ B) Transport junctions
 - C) Agricultural fields
 - D) Religious centers
- 47 In Gujarat, the denser rural settlement distribution is found in:
- A) Kutch region
 - B) Eastern hilly region
 - ☒ C) Central Gujarat plain
 - D) Saurashtra coastal belt
- 48 Which one of the following is a major push factor in rural-urban migration in India?
- A) Employment opportunities
 - B) Better education facilities
 - C) Urban lifestyle
 - ☒ D) Landlessness and rural poverty
- 49 Gordon Childe's theory of town origin is mainly based on which major historical transition?
- A) Religious revolution
 - B) Military conquest
 - ☒ C) Neolithic and Urban revolutions
 - D) Technological revolution
- 50 The hierarchy of urban centers based on size and function is explained by:
- A) Multiple Nuclei Model
 - ☒ B) Rank Size Rule
 - C) Sector Model
 - D) Urban Bias Theory

51 Arrange the following countries in descending order of India's exports in 2023:

1. UAE
2. USA
3. China
4. Netherlands

Choose the correct match:

- (A) 2, 1, 3, 4
- (B) 1, 2, 3, 4
- (C) 2, 1, 4, 3
- (D) 2, 3, 1, 4

52 The Yamuna and the Chambal rivers are examples of:

- (A) Antecedent rivers
- (B) Superimposed rivers
- (C) Consequent rivers
- (D) Subsequent rivers

53 Which of the following rivers is part of an inland drainage system?

- (A) Ghaggar
- (B) Son
- (C) Gandak
- (D) Betwa

54 Which of the following industries is not included under the core industries in India?

- (A) Cement
- (B) Automobiles
- (C) Fertilizers
- (D) Steel

55 According to Census 2011, which Indian state has the lowest population density?

- (A) Sikkim
- (B) Assam
- (C) Manipur
- (D) Goa

56 The Green Revolution in India mainly targeted which of the following regions?

- (A) Eastern India
- (B) Western India
- (C) North-western India
- (D) Central India

57 Which of the following statements is/are true regarding red soils in India?

1. They are rich in iron content.
2. They are highly fertile and suitable for wheat.
3. They are found in Tamil Nadu and Karnataka.
4. They form under low rainfall conditions.

Select the correct answer using the codes below:

- (A) 1, 3 and 4 only
(B) 2, 3 and 4 only
(C) 1 and 2 only
(D) All of the above

58 Match List I (Crop) with List II (Leading State): 2022

List I	List II
A. Tobacco	1. Madhya Pradesh
B. Pulses	2. Gujarat
C. Jowar	3. Maharashtra
D. Maize	4. Karnataka

Choose the correct match:

- (A) A-4, B-2, C-3, D-1
(B) A-4, B-1, C-4, D-3
(C) A-2, B-4, C-3, D-1
(D) A-2, B-1, C-3, D-4

59 In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): Floods in India are more common in the eastern plains than the western parts.

Reason (R): The eastern rivers have high silt load and low gradient.

Select the correct answer using the codes below:

- (A) Both A and R are true, and R is the correct explanation of A
(B) Both A and R are true, but R is not the correct explanation of A
(C) A is true, but R is false
(D) A is false, but R is true

60 Which of the following correctly represents the *chronological sequence* of formation of the physiographic divisions of India?

- A) Northern Plains → Peninsular Plateau → Himalayas
B) Himalayas → Peninsular Plateau → Northern Plains
C) Peninsular Plateau → Northern Plains → Himalayas
(D) Peninsular Plateau → Himalayas → Northern Plains

- 61** What role do Tibetan Plateau and Jet Streams jointly play in the Indian monsoon mechanism?
- A) Enhancing pre-monsoon cyclones over Bay of Bengal
 - B) Acting as a thermal low and creating upper air divergence**
 - C) Generating westerlies in October
 - D) Preventing retreating monsoon from entering Indo-Gangetic plain
- 62** Which among the following is the most accurate factor for explaining higher sex ratio in Kerala (2011) compared to Haryana?
- A) More industrial employment
 - B) Greater urbanization
 - C) Better female education and health access**
 - D) Religious composition
- 63** Arrange the following population policy events in chronological order:
1. National Population Policy (NPP)
 2. Introduction of the family planning program
 3. Establishment of the Ministry of Health & Family Welfare
 4. National Health Mission
- Choose the correct match:
- (A) 2, 1, 3, 4
 - (B) 3, 2, 1, 4
 - (C) 2, 3, 1, 4**
 - (D) 1, 2, 3, 4
- 64** Arrange the following in the historical evolution of regional planning in India:
1. Planning Commission formation
 2. Community Development Programme
 3. Backward Regions Grant Fund (BRGF)
 4. NITI Aayog
- Choose the correct match:
- (A) 1, 3, 2, 4
 - (B) 1, 2, 3, 4**
 - (C) 1, 2, 4, 3
 - (D) 2, 1, 4, 3

- 65 Why are the eastern coastal regions of India more prone to cyclones than the western coasts?
- A) The Bay of Bengal is warmer and less saline
 - B) The Himalayas deflect them eastwards
 - C) Western Ghats prevent their movement
 - D) The Arabian Sea generates more tsunamis
- 66 Arrange the following Indian mountain ranges in ascending order of their average elevation:
- 1. Aravalli
 - 2. Vindhyan Ghats
 - 3. Western Ghats
 - 4. Himalayas
- Choose the correct match:
- (A) 1, 3, 2, 4
 - (B) 2, 1, 3, 4
 - (C) 2, 1, 3, 4
 - (D) 1, 2, 3, 4
- 67 Which of the following rivers is not a tributary of the Ganga River System?
- (A) Ghaghara
 - (B) Son
 - (C) Betwa
 - (D) Gandak
- 68 Arrange the following events of the Indian monsoon in chronological order:
- 1. Onset over Kerala
 - 2. Northward shift of ITCZ
 - 3. Sudden burst of South-West Monsoon
 - 4. Establishment of monsoon trough over Northern Plains
- Choose the correct option:
- (A) 2, 1, 3, 4
 - (B) 1, 3, 2, 4
 - (C) 2, 3, 1, 4
 - (D) 3, 2, 1, 4
- 69 Arrange the following states in descending order of bauxite reserves (2022):
- 1. Australia
 - 2. Russia
 - 3. Brazil
 - 4. India

Choose the correct option:

- (A) 1, 4, 3, 2
- (B) 1, 3, 2, 4
- (C) 1, 2, 3, 4
- (D) 1, 3, 4, 2

70 Which of the following is not a determinant of population composition?

- (A) Age
- (B) Fertility
- (C) Sex
- (D) Occupation

71 Arrange the following states in ascending order of rice production (2022):

1. West Bengal
2. Telangana
3. Punjab
4. Odisha

Choose the correct option:

- (A) 4, 3, 2, 1
- (B) 4, 2, 3, 1
- (C) 1, 3, 4, 2
- (D) 2, 4, 3, 1

72 Arrange the following major railway zones in order from South to North based on the geographical location of their headquarters:

1. North Western Railway – Jaipur
2. Eastern Railway – Kolkata
3. South Central Railway – Secunderabad
4. Western Railway – Mumbai

Which of the following is the correct north-to-south order of these railway zone headquarters?

Choose the correct option:

- (A) 3 → 4 → 2 → 1
- (B) 1 → 2 → 4 → 3
- (C) 3 → 1 → 4 → 2
- (D) 1 → 4 → 2 → 3

73 Which river originates in the Vindhya range and crosses Gujarat, dying out at Khambhat?

- A. Mahi
- B. Tapi
- C. Narmada
- D. Sabarmati

74 Consider these statements about Gujarat's physiographic divisions:

1. The "Banni" area is a sediment-filled flat between the Little Rann and mainland Kutch.
2. Girnar Hills are part of Saurashtra's low-rolling peninsular uplands.
3. Coastal Madhya Gujarat is primarily composed of old Deccan Trap basalts.

Which of the above is correct?

- A. 1 and 3 only
- B. 1 and 2 only
- C. 2 and 3 only
- D. All – 1, 2, and 3

75 Evaluate this table and choose the correct combination of river catchment characteristics in Gujarat.

River	Source Location	Special Feature
1. Purna	Saputara Hills	Forms mangrove-rich estuary near Navsari
2. Shetrunji	Gir Hills	Eastward drainage into Gulf of Khambhat
3. Banas	Aravalli Hills	Perennial alluvial feeder into Sabarmati
4. Khari (in Kutch)	Fractured Kutch Crystalline Uplands	Disappears in Little Rann

Which is correct?

- A. Only 1 and 2
- B. 1, 2, and 3
- C. 1, 2, and 4
- D. All four

76 Which of the following climatic factors is most responsible for the semi-arid conditions of North Gujarat?

- A. Proximity to the Tropic of Cancer
- B. High diurnal temperature variation
- C. Presence of saline soil and sparse vegetation
- D. Lack of orographic barriers and rain-shadow effects**

77 In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): South Gujarat receives higher annual rainfall than Saurashtra and Kutch.

Reason (R): South Gujarat lies directly in the path of the Arabian Sea branch of the southwest monsoon, and has orographic barriers like the Western Ghats.

Choose the correct option:

- A. Both A and R are true, and R is the correct explanation of A**
- B. Both A and R are true, but R is not the correct explanation
- C. A is true, R is false
- D. A is false, R is true

78 List – I (Phenomena)

List – II (Effect)

A. Jet Streams

1. Influence onset and

withdrawal of monsoon

B. El Niño-Southern Oscillation (ENSO)

2. Weakens Gujarat monsoon rainfall

C. Western Disturbance
winter

3. Brings unseasonal rain during

D. Tropical Cyclones
coast

4. High-intensity rainfall along the

Select the correct match:

- A. A-4, B-1, C-3, D-2
- B. A-3, B-1, C-2, D-4
- C. A-2, B-3, C-4, D-1
- D. A-1, B-2, C-3, D-4**

79 Which of the following soil characteristics best explains the high cotton productivity in Saurashtra and South Gujarat?

- A. Predominantly Goradu sandy soils
- B. Moisture-retentive black cotton soils derived from Deccan Trap**
- C. Highly saline soils of the Rann of Kutch
- D. Lateritic soils with high iron content

- 80** In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).
 Assertion (A): Gujarat's coastal and estuarine regions are ecologically significant for mangrove biodiversity.
 Reason (R): Gulf of Kutch has extensive semi-diurnal tidal flats supporting diverse mangrove species like *Avicennia*, *Rhizophora*, and seagrasses.
 Select the correct answer using the codes below:
 A. A is true, R is false
 B. A is false, R is true
 C. Both A and R are true, and R explains A
 D. Both A and R are true, but R does not explain A
- 81** Match the following Ecoregion with their Key Feature:
- | Ecoregion | Key Feature |
|-------------------------|---|
| A. Gir Forest | 1. Dry deciduous teak forests and Asiatic lion habitat |
| B. Little Rann of Kutch | 2. Arid grassland affected by salt wind and camel grazing |
| C. Vansda National Park | 3. Dense evergreen forest remnant of Western Ghats |
| D. Banni Grasslands | 4. Seasonal wetland and Indian wild ass sanctuary |
- Select the correct match:
 A. A-1, B-2, C-4, D-3
 B. A-4, B-3, C-2, D-1
 C. A-1, B-2, C-3, D-4
 D. A-1, B-4, C-3, D-2
- 82** The highest Scheduled Tribe population (in absolute numbers) in Gujarat (2011) is found in –
 A. Dahod
 B. Dang
 C. Panchmahal
 D. Narmada
- 83** Which of the following districts of Gujarat have an urban population share of more than 80% (2011)?
 A. Ahmedabad
 B. Surat
 C. Gandhinagar
 D. More than one of the above

84 Gujarat falls under which of the following seismic zones as per the Bureau of Indian Standards (IS 1893:2002)?

- ☒ A. Entire North Gujarat falls under Zone V
- ☐ B. Only the Kutch region lies in Zone V
- ☐ C. Ahmedabad and Surat fall in Zone IV
- ☐ D. More than one of the above

85 Gujarat's food security concerns are more acute in which of the following regions?

- ☐ A. South Gujarat due to dense tribal populations
- ☐ B. North Gujarat due to semi-arid climate
- ☐ C. Central Gujarat due to industrial over-urbanization
- ☒ D. More than one of the above

86 Match the Agro-Climatic Zone of Gujarat with its dominant cropping system:

Zone	Dominant Crop System
A. North Gujarat	1. Wheat–Cumin / Bajra–Castor
B. South Gujarat	2. Rice–Sugarcane / Vegetables–Banana
C. Saurashtra	3. Tobacco–Paddy / Maize–Vegetables
D. Central Gujarat	4. Groundnut–Cotton / Pearl Millet

Select correct match:

- ☐ A. A–1, B–2, C–3, D–4
- ☐ B. A–2, B–3, C–1, D–4
- ☒ C. A–1, B–2, C–4, D–3
- ☐ D. A–1, B–3, C–2, D–4

87 Which of the following are distinctive characteristics of shifting cultivation (Jhum) as traditionally practiced in India?

- 1. Use of fire to clear forested patches for cultivation
- 2. Short cropping period followed by long fallow period
- 3. Heavy use of chemical fertilizers and irrigation systems
- 4. Community ownership and rotational land use

Select the correct match:

- ☒ A. Only 1, 2, and 4
- ☐ B. Only 1 and 3
- ☐ C. Only 2 and 4
- ☐ D. All of the above

- 88 Gujarat's Golden Quadrilateral connectivity is best represented by which route?
- A. Ahmedabad–Udaipur–Delhi
 - B. Ahmedabad–Vadodara–Mumbai**
 - C. Surat–Nagpur–Kolkata
 - D. Ahmedabad–Rajkot–Bhuj

- 89 Match the following industrial regions of Gujarat with their dominant industries:
- | Region | Major Industry |
|--------|----------------|
|--------|----------------|

Industrial Regions	Dominant Industries
A. Ankleshwar–Jhagadia	1. Automobile and manufacturing
B. Jamnagar	2. Ceramic and vitrified tiles
C. Morbi–Thangadh	3. Oil refinery and petrochemicals
D. Sanand–Becharaji	4. Chemical and pharmaceutica

Choose the correct match:

- A. A–4, B–3, C–2, D–1**
 - B. A–4, B–2, C–3, D–1
 - C. A–1, B–3, C–2, D–4
 - D. A–1, B–2, C–3, D–4
- 90 Arrange the following ports of Gujarat in west to east direction:
- 1. Kandla
 - 2. Mundra
 - 3. Pipavav
 - 4. Okha

Choose the correct sequence:

- A. 4 → 2 → 3 → 1
 - B. 4 → 1 → 2 → 3
 - C. 2 → 1 → 4 → 3
 - D. 4 → 2 → 1 → 3**
- 91 According to Christaller's Central Place Theory, the "K=3" principle represents:
- A) Transport efficiency
 - B) Market optimization**
 - C) Administrative control
 - D) Industrial growth

- 92 According to Burgess' Concentric Zone Model, the zone of transition is located:
A) Surrounding the Central Business District
B) At the city core
C) On the city outskirts
D) In the commuter zone
- 93 Peri-urban areas can best be described as:
A) High-income city cores
B) Dormitory suburbs
C) Transitional zones between rural and urban land uses
D) Exclusive satellite cities
- Urban crime is often spatially concentrated in areas with:
- 94 A) High land values and corporate offices
B) Mixed-income populations and good education
C) Eco-sensitive zones
D) High poverty, weak surveillance, and unemployment
- 95 The density measure defined as $\text{total agricultural population} \div \text{net cultivable area}$ is known as:
A. Arithmetic density
B. Agricultural density
C. Physiological density
D. Nutritional density
- 96 Arrange these epochal events in the correct order of first major population surges:
1. Industrial Revolution
2. Green Revolution
3. Neolithic Agricultural Revolution
4. Late-Pleistocene tool innovation
Choose the correct match:
A. 3 – 4 – 1 – 2
B. 4 – 3 – 1 – 2
C. 4 – 3 – 2 – 1
D. 3 – 1 – 4 – 2
- 97 Identify the incorrectly matched pair:
A. Malthus — Law of Diminishing Returns
B. Sadler — Inverse relationship between fertility and density
C. Ricardo — Theory of Differential Rent
D. Boserup — Agricultural intensification

- 98 Infant Mortality Rate (IMR) enumerates deaths occurring to children before reaching:
A. 14 days
B. 1 month
C. 6 months
D. 1 year
- 99 The total dependency ratio is commonly computed as:
A. $(\text{Children } 0-14 \div \text{Working-age } 15-64) \times 100$
B. $(65+ \div \text{Total population}) \times 100$
C. $[(0-14 + 65+) \div 15-64] \times 100$
D. $[(0-4) \div \text{Total population}] \times 100$
- 100 A constrictive age-sex pyramid, narrow at the base and wider in the middle, typically indicates:
A. High fertility, high mortality society.
B. Stable population with replacement-level fertility.
C. Population with declining fertility and ageing trend.
D. Immigration-dominated rapid growth.
- 101 Which of the following processes is most responsible for rapid transformation in peri-urban regions in developing countries?
A) Decline in urbanization
B) Planned relocation of capital cities
C) Agricultural intensification
D) Spontaneous and unregulated urban sprawl
- 102 Which statement is not one of Ravenstein's original "laws" of migration (1885)?
A. Most migrants move short distances.
B. Females migrate more than males across long distances.
C. Every migration flow generates a counter-flow.
D. Urban residents are less migratory than rural residents.
- 103 Which stage of the demographic-transition model is typified by high birth rates, rapidly falling death rates, and extremely rapid natural increase?
A. Stage I
B. Stage II
C. Stage III
D. Stage IV

104 Arrange the following oceanic features in descending order of depth:

1. Abyssal plain
2. Oceanic trench
3. Seamount
4. Continental rise

Choose the correct match:

- A. 3 – 2 – 1 – 4
- B. 2 – 3 – 1 – 4
- C. 2 – 1 – 3 – 4**
- D. 1 – 2 – 3 – 4

105 In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): Equatorial ocean water is warmer than temperate ocean water.

Reason (R): Insolation is more intense near the equator than at higher latitudes.

Select the correct answer using the codes below:

- A. Both A and R are true, and R is the correct explanation of A.**
- B. Both A and R are true, but R is not the correct explanation of A.
- C. A is true, but R is false.
- D. A is false, but R is true.

106 Which of the following correctly explains the increasing density of seawater with depth?

- A. Increase in temperature and decrease in salinity
- B. Decrease in pressure and increase in temperature
- C. Decrease in temperature and increase in salinity**
- D. Increase in wind speed and humidity

107 Consider the following statements:

1. Salinity is lower near the equator due to high rainfall.
2. Salinity decreases with depth in polar oceans.

Which of the above is/are correct?

- A. Only 1**
- B. Only 2
- C. Both 1 and 2
- D. Neither 1 nor 2

- 108** Warm ocean currents generally cause:
- A. Lower humidity and dry climate
 - B. Higher salinity in polar regions
 - C. Decrease in oceanic temperature near the equator
 - D. Mild winters and increased precipitation in coastal areas**
- 109** Which of the following pairs is correctly matched?
- A. Peru Current – Warm Current
 - B. East Australian Current – Cold Current
 - C. North Equatorial Current – Cold Current
 - D. California Current – Cold Current**
- 110** Which of the following terms refers to the horizontal distance between two successive wave crests?
- A. Wave height
 - B. Wavelength**
 - C. Fetch
 - D. Wave frequency
- 111** Which of the following best explains the occurrence of spring tides?
- A. Earth, Moon, and Sun form a right angle
 - B. Earth is farthest from the Sun
 - C. Earth, Moon, and Sun are aligned**
 - D. Moon is in apogee position
- 112** Eustatic changes in sea level are primarily caused by:
- A. Changes in ocean basin volume**
 - B. Local tectonic uplift
 - C. Variation in ocean current strength
 - D. Sediment deposition at river mouths
- 113** Which of the following characteristics is not true about tsunami waves?
- A. They have long wavelengths
 - B. They travel at speeds over 500 km/h
 - C. Their height increases near coastal zones
 - D. They break early in deep water**
- 114** The energy source of tropical cyclones is:
- A. Jet stream divergence
 - B. Release of latent heat from condensation**
 - C. Solar radiation
 - D. Surface frictional drag

- 115** Which of the following statements is true about storm surges?
- A. Caused by tectonic activity
 - B. Associated with high-pressure systems
 - C. Are only present during winter
 - D. Occur due to strong onshore winds and low pressure during cyclones**
- 116** In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).
Assertion (A): The western boundaries of ocean basins in the tropics are warmer than their eastern boundaries.
Reason (R): Warm ocean currents move poleward along western boundaries due to Earth's rotation and wind circulation.
Select the correct answer using the codes below:
- A. Both A and R are true, and R is the correct explanation of A.**
 - B. Both A and R are true, but R is not the correct explanation of A.
 - C. A is true, but R is false.
 - D. A is false, but R is true.
- 117** Arrange the following stages of tropical cyclone development in correct sequence:
1. Mature Cyclone
 2. Tropical Disturbance
 3. Tropical Depression
 4. Tropical Storm
- Choose the correct match:
- A. 2 – 4 – 3 – 1
 - B. 3 – 2 – 4 – 1
 - C. 2 – 3 – 4 – 1**
 - D. 1 – 2 – 3 – 4
- 118** Which of the following is not a functional component of an ecosystem?
- A. Decomposers
 - B. Producers
 - C. Water**
 - D. Consumers
- 119** Which ecosystem is characterized by xerophytic vegetation and high diurnal temperature variation?
- A. Desert**
 - B. Tropical rainforest
 - C. Tundra
 - D. Alpine

- 120 In human ecological theory, adaptation refers to:
- A. The struggle for survival through competition
 - ☒ B. Adjustment of human activities to the environmental constraints
 - C. Institutionalization of economic systems
 - D. Political dominance over natural systems
- 121 Which of the following correctly represents the trophic level sequence in a grazing food chain?
- A. Herbivores → Carnivores → Decomposers → Producers
 - B. Secondary Consumers → Primary Consumers → Producers
 - C. Producers → Decomposers → Primary Consumers
 - ☒ D. Producers → Primary Consumers → Secondary Consumers → Tertiary Consumer
- 122 The largest energy input in most ecosystems originates from:
- A. The biomass of producers
 - B. Human activities
 - ☒ C. Solar radiation
 - D. Decomposers' activity
- 123 Which process plays a major role in removing carbon dioxide from the atmosphere?
- A. Combustion
 - ☒ B. Photosynthesis
 - C. Respiration
 - D. Decomposition
- 124 Which one of the following explains why polar regions are warming faster than equatorial regions under global warming scenarios?
- ☒ A. Arctic amplification due to loss of snow cover and albedo feedback
 - B. Depletion of ozone layer is more severe in polar regions
 - C. Higher anthropogenic emissions in the Arctic belt
 - D. Ocean currents transfer more heat to the poles
- 125 The Environment Protection Act, 1986, was enacted in response to which of the following events?
- A. Stockholm Conference, 1972
 - ☒ B. Bhopal Gas Tragedy, 1984
 - C. Rio Earth Summit, 1992
 - D. Brundtland Commission Report, 1987

- 126** The National Environment Policy (2006) primarily emphasizes:
- A. Expansion of industrial zones
 - B. Sector-specific environmental clearances
 - C. Conservation of critical environmental resources and livelihood security**
 - D. Removal of tribal settlements from forests
- 127** The Brundtland Report (1987) is titled:
- A. Caring for the Earth
 - B. Limits to Growth
 - C. Agenda 21
 - D. Our Common Future**
- 128** Identify the correct chronological order of the following events:
1. Paris Agreement
 2. Rio Earth Summit
 3. Brundtland Report
 4. Kyoto Protocol
- Codes:
- A. 3 → 2 → 4 → 1**
 - B. 2 → 3 → 1 → 4
 - C. 2 → 3 → 4 → 1
 - D. 4 → 1 → 2 → 3
- 129** Agenda 21 is a comprehensive blueprint for sustainable development that was adopted at:
- A. United Nations Conference on the Human Environment, 1972
 - B. United Nations Conference on Environment and Development (UNCED), 1992**
 - C. World Summit on Sustainable Development, 2002
 - D. Paris Climate Conference, 2015
- 130** Match the following Sustainable Development Goals (SDGs) with their respective themes:
- | SDGs | Themes |
|-----------|-------------------------------|
| A. SDG 1 | 1. Gender equality |
| B. SDG 3 | 2. Good health and well-being |
| C. SDG 5 | 3. No poverty |
| D. SDG 13 | 4. Climate action |
- Codes:
- A. A-4, B-2, C-1, D-3
 - B. A-2, B-1, C-3, D-4
 - C. A-1, B-3, C-4, D-2
 - D. A-3, B-2, C-1, D-4**

- 131 The main objective of the Paris Agreement (2015) is to:
- A. Eliminate fossil fuels by 2020
 - ☒ B. Keep global temperature rise well below 2°C above pre-industrial levels
 - C. Set emission targets only for developed countries
 - D. Launch a global carbon tax
- 132 Match the following economic sectors with corresponding activities:
- | Sectors | Activities |
|---------------|-------------------------|
| a) Primary | 1. Teaching |
| b) Secondary | 2. Agriculture |
| c) Tertiary | 3. Software development |
| d) Quaternary | 4. Manufacturing |
- Options:
- A. a-2, b-3, c-1, d-4
 - B. a-1, b-4, c-2, d-3
 - ☒ C. a-2, b-4, c-1, d-3
 - D. a-2, b-3, c-4, d-1
- 133 Which of the following pairs is incorrect about regional resource concentration?
- ☒ A. Petroleum – Indo-Gangetic Plain
 - B. Bauxite – Eastern Ghats
 - C. Iron Ore – Chhota Nagpur Plateau
 - D. Copper – Rajasthan-Aravalli Region
- 134 Identify the incorrect pair regarding the type of natural resource and its classification:
- A. Geothermal energy – Renewable
 - B. Petroleum – Non-renewable
 - ☒ C. Groundwater – Always renewable
 - D. Tidal energy – Renewable
- 135 According to Von Thünen’s agricultural location model, which of the following is most likely to be located farthest from a central market in an isolated state?
- A. Dairy farming
 - B. Forestry
 - C. Market gardening
 - ☒ D. Extensive grain cultivation

- 136** In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): Tertiary and quaternary sectors are spatially concentrated in metropolitan and core urban regions.

Reason (R): These sectors rely heavily on infrastructure, ICT networks, skilled labor, and urban demand.

Options:

- ☒ A. Both A and R are true, and R is the correct explanation of A
- ☐ B. Both A and R are true, but R is not the correct explanation of A
- ☐ C. A is true, R is false
- ☐ D. A is false, R is true

- 137** Match the following economic sectors with their dominant regional hubs:

Economic Sector	Regional Hub
a) Primary	1. Western Ghats
b) Secondary	2. Chota Nagpur Plateau
c) Tertiary	3. Mumbai Metropolitan Region
d) Quaternary	4. Bengaluru

Options:

- ☐ A. a-4, b-2, c-3, d-1
- ☒ B. a-1, b-2, c-3, d-4
- ☐ C. a-2, b-1, c-3, d-4
- ☐ D. a-1, b-3, c-2, d-4

- 138** Which mineral resource shows a clear spatial concentration in the Peninsular Shield region of India, especially in Odisha, Jharkhand, and Chhattisgarh?

- ☐ A. Copper
- ☐ B. Mica
- ☐ C. Manganese
- ☒ D. Iron Ore

- 139** The concept of “Resource Region” in economic geography focuses on:

- ☒ A. Human-environment interaction, extraction, and regional development
- ☐ B. Natural resources as isolated physical features
- ☐ C. Political boundaries of mineral zones
- ☐ D. Transport networks only

- 140** Which of the following is not a direct geographic factor behind the global energy crisis?

- ☐ A. Unequal distribution of fossil fuels
- ☐ B. Seasonal variability of solar and wind
- ☒ C. Uniform access to nuclear energy
- ☐ D. Political instability in oil-rich regions

- 141** In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): The geographic distribution of renewable energy potential is uneven.

Reason (R): Wind and solar energy depend on atmospheric, latitudinal, and topographic conditions.

Options:

- ☒ A. Both A and R are true, and R is the correct explanation
 - ☐ B. Both A and R are true, but R is not the correct explanation
 - ☐ C. A is true, R is false
 - ☐ D. A is false, R is true
- 142** The Clark-Fisher Model is significant for explaining:
- ☐ A. Resource classification
 - ☐ B. Location of heavy industries
 - ☒ C. Sectoral transformation with economic development
 - ☐ D. Impact of globalization on urban sprawl
- 143** According to the Core-Periphery Model, where are tertiary and quaternary activities most likely concentrated?
- ☐ A. Resource frontier
 - ☒ B. Urban core and nodes
 - ☐ C. Hinterlands
 - ☐ D. Subsistence zones
- 144** In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).
- Assertion (A): Cropping patterns in India vary significantly between regions.
- Reason (R): Variations in rainfall, soil type, and irrigation availability lead to spatial cropping diversity.
- Options:
- ☒ A. Both A and R are true, and R is the correct explanation of A
 - ☐ B. Both A and R are true, but R is not the correct explanation of A
 - ☐ C. A is true, R is false
 - ☐ D. A is false, R is true
- 145** Which of the following best describes the Weaver method of crop combination analysis?
- ☐ A. Uses standard deviation and index value for crop ranking
 - ☒ B. Based on the minimum deviation of actual crops from a theoretical standard
 - ☐ C. Assigns subjective weights to major and minor crops
 - ☐ D. Designed specifically for mono-cropping zones

146 Match the following crop combination methods with their key features:

Methods	Key Features
a) Weaver	1. Statistical average method
b) Doi	2. Least square method
c) Rafiullah	3. Standard deviation
d) Jasbir Singh	4. Functional weight method

Options:

A. a-3, b-2, c-1, d-4

B. a-2, b-1, c-3, d-4

C. a-1, b-2, c-3, d-4

D. a-4, b-3, c-2, d-1

147 Which of the following statements correctly defines crop diversification?

A. Expansion of the same crop across regions

B. Increase in monoculture cash crops

C. Shifting cultivation on a rotational basis

D. Cultivation of a variety of crops to reduce risk and improve sustainability

148 Which of the following is not a primary determinant of agricultural productivity?

A. Number of tractors per 1000 people

B. Labour availability

C. Irrigation availability

D. Soil fertility

149 Which of the following agricultural systems is characterized by low productivity and use of shifting cultivation?

A. Commercial grain farming

B. Intensive subsistence agriculture

C. Plantation agriculture

D. Primitive subsistence agriculture

150 Match the following world regions with predominant agricultural systems:

Regions	Agricultural Systems
a) South-East Asia	1. Intensive wet rice cultivation
b) Argentina	2. Shifting cultivation
c) Central Africa	3. Commercial livestock ranching
d) USA (Midwest)	4. Commercial grain farming

Options:

A. a-1, b-2, c-3, d-4

B. a-1, b-3, c-2, d-4

C. a-4, b-3, c-1, d-2

D. a-3, b-4, c-1, d-2

- 151** Which formula is used to calculate Cropping Intensity (%)?
- A. Cropping Intensity = Yield / Landholding
 - B. Cropping Intensity = Net Irrigated AreaTotal / Agricultural Workers × 100
 - C. Cropping Intensity = Gross Cropped Area / Net Sown Area × 100**
 - D. Cropping Intensity = Gross Cropped / AreaTotal Fertilizer Use × 100
- 152** Match the following industries with their major growth regions:
- | Industries | Growth Regions |
|------------------|------------------------------|
| a) Tourism | 1. Stuttgart, Detroit |
| b) ICT | 2. Silicon Valley, Hyderabad |
| c) Biotechnology | 3. Boston, Basel |
| d) Automobile | 4. Bali, Maldives |
- Options:
- A. a-3, b-1, c-2, d-4
 - B. a-4, b-3, c-2, d-1
 - C. a-4, b-3, c-1, d-2
 - D. a-4, b-2, c-3, d-1**
- 153** Match the following location factors with their most relevant examples:
- | Factors | Examples |
|-----------------------|------------------------------------|
| a) Power availability | 1. Bhilai Steel Plant |
| b) Labour supply | 2. Paper mills |
| c) Water proximity | 3. Garment industry in Tirupur |
| d) Transport | 4. Oil refineries near port cities |
- Options:
- A. a-2, b-3, c-4, d-1
 - B. a-3, b-4, c-1, d-2
 - C. a-1, b-2, c-3, d-4
 - D. a-1, b-3, c-2, d-4**
- 154** According to Weber's Least Cost Theory, a material index greater than 1 implies:
- A. Market-oriented industry
 - B. Labour-oriented industry
 - C. Raw material-oriented industry**
 - D. Footloose industry
- 155** Arrange the following global industrial regions from West to East:
- 1. Ruhr
 - 2. Kuznetsk Basin
 - 3. Great Lakes Region
 - 4. Tokyo-Yokohama

Options:

- A. 1 – 3 – 2 – 4
- ☒ B. 3 – 1 – 2 – 4
- C. 3 – 1 – 4 – 2
- D. 1 – 2 – 3 – 4

- 156** In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): Hurst emphasized the role of functional hierarchy in urban transport networks.

Reason (R): Higher-order centers offer more transport services and wider interaction zones.

Options:

- ☒ A. Both A and R are true, and R is the correct explanation
- B. Both A and R are true, but R is not the correct explanation
- C. A is true, R is false
- D. A is false, R is true

- 157** Which of the following correctly defines the Gamma Index in transport geography?

- ☒ A. Ratio of actual routes to maximum possible links
- B. Ratio of number of nodes to total road length
- C. Number of circuits in the network
- D. Number of isolated nodes in a system

- 158** Which of the following is not a stated goal of the World Trade Organization (WTO)?

- A. Liberalization of global trade
- ☒ B. Regulation of currency exchange rates
- C. Dispute settlement between member countries
- D. Promoting fair competition and transparency

- 159** Arrange the following regional trade blocs in the order of their year of establishment:

1. EU
2. ASEAN
3. NAFTA
4. SAARC

Options:

- A. 1 – 2 – 3 – 4
- B. 1 – 2 – 4 – 3
- ☒ C. 2 – 1 – 4 – 3
- D. 2 – 4 – 1 – 3

160 Match the types of regions with their appropriate examples:

Regions	Examples
a) Formal region	1. Airport catchment area
b) Functional region	2. Language-based zone
c) Nodal region	3. Backward area development zone
d) Planning region	4. City and its suburbs

Options:

- A. a-1, b-2, c-3, d-4
- B. a-1, b-2, c-4, d-3
- C. a-4, b-3, c-1, d-2
- D. a-2, b-1, c-4, d-3**

161 In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): Functional regions have high internal interaction.

Reason (R): They are defined by spatial homogeneity of physical features.

Options:

- A. Both A and R are true, and R is the correct explanation
- B. Both A and R are true, but R is not the correct explanation
- C. A is true, R is false**
- D. A is false, R is true

162 Arrange the following theories in order of their publication:

1. Hirschman's Unbalanced Growth
2. Myrdal's Cumulative Causation
3. Friedmann's Core-Periphery Model
4. Dependency Theory (Frank)

Options:

- A. 1-2-3-4
- B. 2-1-4-3**
- C. 2-1-3-4
- D. 1-3-2-4

163 Which of the following social movements in India is best associated with the theme of regional development and decentralization?

- A. Chipko Movement
- B. Narmada Bachao Andolan
- C. Save Silent Valley
- D. Telangana Movement**

164 Match the following cultural realms with their primary characteristics:

Realms	Characteristics
a) Indic Realm	1. Hindu-Buddhist traditions
b) Islamic Realm	2. Greco-Roman heritage
c) Sino-Japanese Realm	3. Confucian ethos
d) European Realm	4. Arabic-Persian architecture

Options:

- A. a-1, b-2, c-3, d-4
- B. a-2, b-1, c-3, d-4
- C. a-1, b-3, c-4, d-2
- D. a-1, b-4, c-3, d-2**

165 In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): Cultural ecology explores the relationship between culture and environment.

Reason (R): Human adaptation to climate and resource availability shapes cultural practices.

Options:

- A. Both A and R are true, and R is the correct explanation**
- B. Both A and R are true, but R is not the correct explanation
- C. A is true, R is false
- D. A is false, R is true

166 Which of the following is not a direct dimension of social exclusion?

- A. Educational marginalization
- B. Limited access to healthcare
- C. High per capita GDP**
- D. Caste-based segregation

167 Which composite index is used to assess quality of life in a spatial context?

- A. Consumer Price Index
- B. Human Development Index (HDI)**
- C. Gross National Happiness Index
- D. Ease of Doing Business Index

168 Which of the following Indian states has the highest percentage of Scheduled Tribe (ST) population?

- A. Mizoram**
- B. Jharkhand
- C. Chhattisgarh
- D. Odisha

169 Arrange the following Indian states in descending order of Muslim population (in percentage):

1. Jammu & Kashmir
2. West Bengal
3. Assam
4. Kerala

Options:

- A. 1-2-3-4
- B. 1-3-2-4**
- C. 3-1-4-2
- D. 1-4-3-2

170 Match the following diseases with their geographic origin or typical zone:

Diseases	Zone
a) Malaria	1. Tropical lowlands
b) Cholera	2. Water-deficient slums
c) Silicosis	3. Mining areas
d) Goitre	4. Iodine-deficient mountain regions

Options:

- A. a-3, b-4, c-1, d-2
- B. a-2, b-1, c-3, d-4
- C. a-1, b-2, c-3, d-4**
- D. a-1, b-3, c-4, d-2

171 Which tribal group is primarily concentrated in the Bastar region of Chhattisgarh?

- A. Santhals
- B. Todas
- C. Bhils
- D. Gonds**

172 The concept of “distance decay” in healthcare geography refers to:

- A. Decrease in health service utilization as distance increases**
- B. Increase in hospital size with distance
- C. Dispersal of rural health centers
- D. Increase in disease incidence near rivers

173 Which of the following statements are correct regarding cultural regions?

1. They are defined by homogeneity in cultural traits.
2. Cultural regions always match political boundaries.
3. Cultural landscape is the visible expression of cultural practices.
4. Culture hearths are the origin zones of innovation.

Options:

- A. 1, 2, and 3 only
- B. 1, 3, and 4 only**
- C. 2 and 4 only
- D. All statements

174 Match the following indicators with their relevance:

Indicators	Relevance
a) Gini Coefficient	1. Income inequality
b) IMR	2. Health and sanitation
c) Life Expectancy	3. Well-being
d) Literacy Rate	4. Educational access

Options:

- A. a-3, b-4, c-2, d-1
- B. a-2, b-1, c-4, d-3
- C. a-1, b-2, c-3, d-4**
- D. a-4, b-3, c-1, d-2

175 Match the following Indian language families with a representative language:

Language Families	Language
a) Indo-Aryan	1. Bodo
b) Dravidian	2. Kannada
c) Austroasiatic	3. Mundari
d) Tibeto-Burman	4. Hindi

Options:

- A. a-1, b-2, c-3, d-4
- B. a-2, b-1, c-4, d-3
- C. a-3, b-4, c-1, d-2
- D. a-4, b-2, c-3, d-1**

176 Match the following India's international borders with their respective boundary types:

Borders	Boundary Types
a) India–China	1. Open border
b) India–Nepal	2. Superimposed boundary
c) India–Pakistan	3. Radial frontier
d) India–Bangladesh	4. Enclave-exclave complex

Options:

- A. a-2, b-1, c-3, d-4
- B. a-3, b-1, c-2, d-4
- C. a-2, b-4, c-1, d-3
- D. a-1, b-4, c-3, d-2

177 Which of the following statements are true about Heartland and Rimland theories?

1. Both are classical geopolitical models.
2. Heartland favors land power, Rimland favors sea power.
3. Both theories are irrelevant in post-Cold War geopolitics.
4. Rimland theory includes South and Southeast Asia.

Options:

- A. 1 and 3 only
- B. 1, 2 and 4 only
- C. 2 and 4 only
- D. 1, 2, 3 and 4

178 Which of the following straits is most critical for global oil trade and geopolitics?

- A. Malacca Strait
- B. Strait of Gibraltar
- C. Strait of Hormuz
- D. Panama Canal

179 Match the organisations with their primary geopolitical focus:

Organisations	Focus
a) OPEC	1. Maritime cooperation
b) SAARC	2. Oil pricing
c) EU	3. South Asian integration
d) ASEAN	4. Monetary union and mobility

Options:

- A. a-1, b-2, c-3, d-4
- B. a-4, b-3, c-2, d-1
- C. a-2, b-1, c-4, d-3
- D. a-2, b-3, c-4, d-1

180 Al-Biruni's contribution to geography includes:

- A. Accurate measurement of Earth's circumference
- B. Cultural regionalism
- C. Early anthropological methods
- D. More than one of the above

181 Match the civilization with its major contribution to geography:

Civilization	Contribution
a) Greeks	1. Spherical Earth & coordinates
b) Arabs	2. Preservation and expansion of classical geography
c) Indians	3. Cosmology and time-space calculation
d) Chinese	4. Climatic zoning and regional writing

Options:

A. a-3, b-1, c-2, d-4

B. a-2, b-1, c-4, d-3

C. a-1, b-2, c-3, d-4

D. a-1, b-4, c-2, d-3

182 Arrange the following contributors in chronological order (earliest to latest):

1. Ptolemy
2. Al-Biruni
3. Aryabhata
4. Strabo

Options:

A. 4-3-1-2

B. 3-4-1-2

C. 1-2-3-4

D. 4-1-3-2

183 In the following question, two statements are given-one labelled Assertion (A) and the other labelled Reason (R).

Assertion (A): Darwinian ideas were used to explain cultural and social hierarchy in colonial geography.

Reason (R): Evolutionary theory was interpreted in a deterministic way by early geographers.

Options:

A. Both A and R are true, and R is the correct explanation

B. Both A and R are true, but R is not the correct explanation

C. A is true, R is false

D. A is false, R is true

184 Which Indian institution is most known for integrating cartography with digital planning?

A. CSIR

B. UPSC

C. NATMO

D. NCERT

185 Match the following geographic traditions with their focus:

Traditions	Focus
a) Earth Science	1. Physical systems
b) Man–Environment	2. Regional studies
c) Area Studies	3. Human–ecological relations
d) Spatial Analysis	4. Patterns and processes

Options:

A. a-1, b-2, c-3, d-4

B. a-1, b-3, c-2, d-4

C. a-4, b-3, c-1, d-2

D. a-3, b-4, c-2, d-1

186 Which of the following pairs are correctly matched?

1. Humboldt – Cosmos
2. Kant – Chorology
3. Ritter – Functionalism
4. Schaefer – Areal Differentiation

Codes:

A. 1 and 2 only

B. 1, 2 and 3

C. 1 and 4 only

D. All of the above

187 Which of the following are valid examples of geographic dualisms?

1. Regional–Systematic
2. Urban–Rural
3. Quantitative–Qualitative
4. Absolute–Relative location

Codes:

A. 1 and 3 only

B. 1, 3 and 4 only

C. 2 and 3 only

D. All of the above

188 Which of the following geographers are considered contributors to classical German geography?

1. Kant
2. Humboldt
3. Ritter
4. Huntington

Codes:

- A. 1, 2, and 3 only
- B. 2, 3, and 4 only
- C. 1 and 2 only
- D. All of the above

- 189** Who among the following Arab geographers is known for preparing a detailed world map and description titled *Nuzhat al-Mushtaq*?
- A. Al-Idrisi
 - B. Ibn Khaldun
 - C. Al-Masudi
 - D. Al-Biruni
- 190** Which Indian scholar proposed the heliocentric theory and estimated planetary revolutions, contributing to mathematical geography?
- A. Varahamihira
 - B. Aryabhata
 - C. Kalidasa
 - D. Bhaskaracharya
- 191** Which geographer emphasized the unity of nature and initiated the tradition of empirical fieldwork in geography?
- A. Carl Ritter
 - B. Ratzel
 - C. Varenus
 - D. Humboldt
- 192** The concept of “survival of the fittest” in geography supported which school of thought in the 19th century?
- A. Possibilism
 - B. Humanism
 - C. Determinism
 - D. Structuralism
- 193** Which of the following is a current trend in Indian geography?
- A. Exclusive use of descriptive methods
 - B. Revival of theological models
 - C. Disuse of fieldwork
 - D. GIS-based spatial planning

- 194** The concept of human adaptation to physical environment is central to which geographic tradition?
- A. Earth science tradition
 - B. Man–environment tradition**
 - C. Area studies
 - D. Spatial tradition
- 195** Which geographic paradigm focuses on understanding space through meaning, perception, and human experience?
- A. Humanism**
 - B. Positivism
 - C. Structuralism
 - D. Behaviouralism
- 196** Which of the following is a primary source of spatial data in geography?
- A. Census handbooks
 - B. Economic survey reports
 - C. Topographic maps**
 - D. Statistical yearbooks
- 197** Match the following data types with their nature:
- | Data Types | Nature |
|----------------------|-----------------------|
| a) Population census | 1. Spatial |
| b) Satellite imagery | 2. Non-spatial |
| c) Field notes | 3. Spatial & temporal |
| d) GPS track logs | 4. Qualitative |
- Options:
- A. a-1, b-2, c-3, d-4
 - B. a-2, b-1, c-3, d-4
 - C. a-3, b-4, c-2, d-1
 - D. a-2, b-1, c-4, d-3**
- 198** Match the map types with their representation:
- | Map Types | Representation |
|---------------|--|
| a) Choropleth | 1. Direction and volume of movement |
| b) Isarithmic | 2. Continuous phenomena using lines |
| c) Dasymetric | 3. Corrected spatial representation of zones |
| d) Flow map | 4. Relative values using shading |

Options:

- A. a-1, b-2, c-3, d-4
- B. a-2, b-3, c-1, d-4
- ☒ C. a-4, b-2, c-3, d-1
- D. a-1, b-4, c-2, d-3

199 Which of the following statements about chorochromatic maps is/are correct?

1. They use color to depict discrete zones.
2. They are ideal for mapping administrative boundaries.
3. They represent qualitative data.
4. They are based on isovalue lines.

Options:

- ☒ A. 1, 2 and 3 only
- B. 2 and 4 only
- C. 1 and 4 only
- D. All of the above

200 Which type of graph is most suitable to show changes in literacy rate over time in a region?

- A. Pie chart
- ☒ B. Line graph
- C. Bar diagram
- D. Dot map