

2017

GEOGRAPHY (Honours)

Paper Code : III-A

[New Syllabus]

Full Marks : 50

Time : One Hour

Important Instructions for OMR Sheet

1. Write / Fill your correct Subject Name, Subject Code & Paper Code in the space provided on the top of the OMR sheet (Subject Codes are given on the back of the OMR sheet & Paper Code in the Question Paper.)
2. Write / Fill your Roll number, Registration number, Regn. Session, Exam Date and Exam Session in the space provided on the OMR Sheet.
3. Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the circle as indicated below on the correct response against each item.
4. Your responses to the items are to be indicated in the **OMR Sheet given inside the Paper Booklet only**. If you mark at any place other than in the circle in the OMR Sheet, it will not be evaluated.
5. If you write your Name, Phone Number or put any mark on any part of the OMR Sheet, except for the space allotted for the relevant entries, which may disclose your identity, or use abusive language or employ any other unfair means, you will render yourself liable to disqualification.
6. You have to return the OMR Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall.
7. **Use only Blue/Black Ball point pen. Use of any mobile phone, calculator or log table etc. in examination hall, is prohibited.**

3/125 - 1500

Answer *all* the questions in OMR sheet.

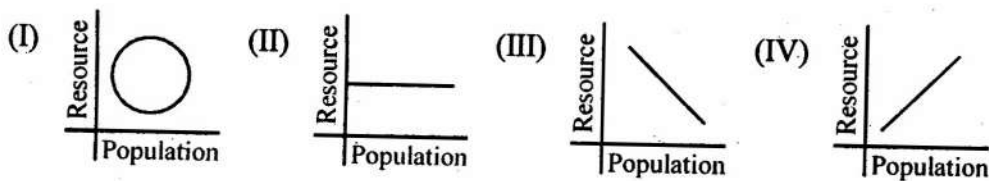
Choose the correct answer.

Each question carries 1 mark.

1. The lowermost layer of the atmosphere is called —

- (A) Troposphere
- (B) Stratosphere
- (C) Mesosphere
- (D) Thermosphere

2. Following are the graphical representations of the Functional Theory of resource. Arrange them sequentially (1st stage to 4th stage) —



- (A) III - IV - I - II
- (B) I - II - III - IV
- (C) I - II - IV - III
- (D) I - IV - II - III

Turn Over

3. Given below are two statements — Assertion (A) and Reason (R). Identify the correct answer.

Assertion (A) → In the Troposphere, the air temperature decreases with altitude.

Reason (R) → Ozone layer in the Troposphere absorbs the UV radiation causing the temperature to decrease.

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
 - (B) Both (A) and (R) are true, but (R) does not explain (A).
 - (C) (A) is true, (R) is false.
 - (D) (A) is false, (R) is true.
4. Sunlight reaching the ground after being scattered by aerosols is called
- (A) Direct Sunlight
 - (B) Indirect Sunlight
 - (C) Diffused Sunlight
 - (D) Solar Constant
5. Which of the following conditions are ideal for Radiation Inversion ?
- (I) Long nights
 - (II) Cold, dry air at the surface
 - (III) Cloudy skies
 - (IV) Windy nights
- (A) I, II, III and IV
 - (B) III and IV
 - (C) I, II and IV
 - (D) I and II
6. The Ozone Hole in Antarctica is due to —
- (A) Extremely cold temperature
 - (B) Formation of Polar Stratospheric clouds (PSCs)
 - (C) CFCs get trapped in the PSCs forming chloride ions
 - (D) All of these

7. Pressure = Force / X. What is X ?

- (A) Volume
- (B) Area
- (C) Mass
- (D) Weight

8. Arrange the following areas in terms of the increasing magnitude of the Coriolis Force. (smallest to highest).

(I) 20°N (II) 50° S (III) 0° (IV) 80° S

- (A) I < II < III < IV
- (B) III < I < III < II
- (C) III < I < II < IV
- (D) None of these

9. Given below are two statements marked Assertion (A) and Reason (R). Choose the correct option.

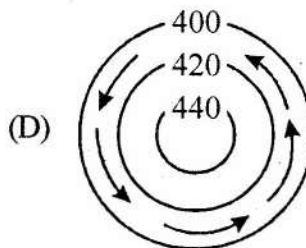
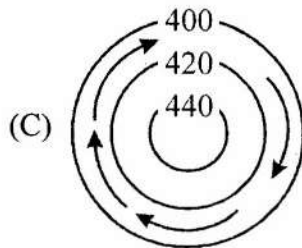
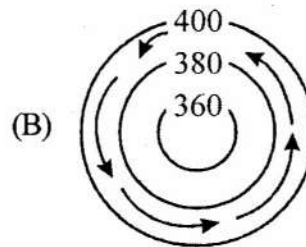
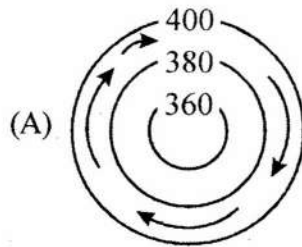
Assertion (A) : Geostrophic winds are not found near Equator.

Reason (R) : The equatorial regions of the earth get intensely heated due to direct heating of the Sun.

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

Turn Over

10. From the following diagrams, identify the Cyclonic flow in Northern Hemisphere



11. The trade winds blowing from the sub-tropical High Pressure Belts to Equatorial Low Pressure Belts are the winds blowing from which direction ?

- (A) North and South
- (B) East and West
- (C) North East and South East
- (D) North West and South West

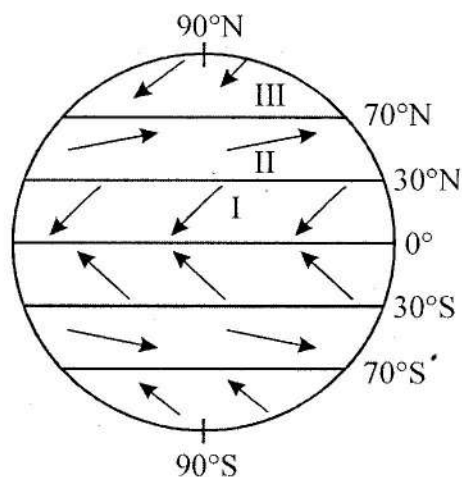
12. The condition of the atmosphere in which the surfaces of constant pressure and density are parallel at all heights is called

- (A) Baroclinic Condition
- (B) Barotropic Condition
- (C) Cyclone
- (D) Anticyclone

13. Supercooled water is referred to :

- (A) Water above freezing point
- (B) Water below freezing point
- (C) Ice below freezing point
- (D) Ice above freezing point

14. In the following diagram, the location of ITCZ and Polar Front.



- (A) I → Polar Front III → ITCZ
- (B) I → ITCZ III → Polar Front
- (C) II → ITCZ III → Polar Front
- (D) II → Polar Front III → ITCZ

15. Koppen based his climatic classification on the basis of

- (A) Temperature
- (B) Precipitation
- (C) Neither (A) nor (B)
- (D) Both (A) and (B)

Turn Over

16. A soil with 40% clay, 40% silt and 20% sand is referred to as —
- (A) Saline Soil
 - (B) Solonchak
 - (C) Chernozem
 - (D) Solum
17. The Ternary Diagram is used for the assessment of
- (A) Soil Acidity
 - (B) Soil Structure
 - (C) Soil Texture
 - (D) None of these
18. For which of the following regions is the flow analysis technique used for delineating ?
- (A) Formal
 - (B) Functional
 - (C) Nodal
 - (D) Planning
19. The main objective of the IRDP was —
- (A) Diminishing the social pathology in rural areas.
 - (B) To reduce rural poverty and create additional employment opportunities in the rural sector.
 - (C) To cater to women empowerment.
 - (D) To take steps for the development of SC, ST and Minorities.

20. Find the Phantom Pile if — The original weight of a particular resource is 1000 ton, the loss through use is 100 ton and the original weight of the resource gets increased by 4 times through the application of technology.

- (A) Zero
- (B) 4000 tons
- (C) 3500 tons
- (D) 3600 tons

21. Kota Nuclear Power Plant is located in which state ?

- (A) Bihar
- (B) Madhya Pradesh
- (C) Rajasthan
- (D) Gujarat

22. Match the following

Agricultural System

Characteristic

- | | |
|--------------------------------------|---|
| (a) Intensive Subsistence Farming | (i) Low size of agricultural land |
| (b) Extensive Commercial Agriculture | (ii) Use of agricultural mechanization |
| (c) Plantation Agriculture | (iii) Farming of tea and coffee |
| (d) Mixed Farming | (iv) Use of both agriculture and animal husbandry |

- | | | | | |
|-----|-------|-------|-------|-------|
| | (a) | (b) | (c) | (d) |
| (A) | (i) | (ii) | (iii) | (iv) |
| (B) | (i) | (iii) | (ii) | (iv) |
| (C) | (i) | (ii) | (iv) | (iii) |
| (D) | (iii) | (iv) | (ii) | (i) |

Turn Over

23. The ratio between the weight of raw material to the weight of finished product is called :
- (A) Raw Material Ratio
 - (B) Material Index
 - (C) Product Index
 - (D) Consumer Index
24. If the Material Index is equal to 1, then what will be the nature of raw material ?
- (A) Pure Raw Material
 - (B) Impure Raw Material
 - (C) Ubiquitous Raw Material
 - (D) None of these
25. Porter's Five Forces Analysis is related to which kind of industry ?
- (A) Iron and Steel
 - (B) Aluminium
 - (C) Paper
 - (D) Food Processing Industry
26. As of 2011, the rank of India in World Human Development Index Report is —
- (A) 132nd
 - (B) 130th
 - (C) 129th
 - (D) 122nd

27. The greatest damage of Life and property from a hurricane is due to —
- (A) Storm Surge
 - (B) Torrential rains
 - (C) Strong winds in the hurricane
 - (D) Both (B) and (C)
28. Which gas is not the green house gas ?
- (A) Methane (CH_4)
 - (B) Chloro Fluoro Carbons (CFC)
 - (C) Carbon dioxide (CO_2)
 - (D) Hydrogen (H_2)
29. Shadow effect is associated with which one of the following rainfall
- (A) Cyclonic rainfall
 - (B) Orographic rainfall
 - (C) Convectional rainfall
 - (D) Frontal rainfall
30. A layer in the earth's atmosphere called Ionosphere facilitates radio communication. Why ?
- (I) The presence of ozone causes the reflection of radio waves to earth.
 - (II) Radio waves have a very long wavelength
- (A) I only
 - (B) II only
 - (C) Both I and II
 - (D) Neither I nor II

Turn Over

31. Balancing the need to use resources and also conserve them for the future is called —
- (A) Sustainable development
 - (B) Resource conservation
 - (C) Resource development
 - (D) Non-sustainable development
32. Which one of the following activities can be included in the primary sector ?
- (A) Giving loans to the farmer.
 - (B) Making sugar from sugarcane.
 - (C) Cultivating Sugar-cane.
 - (D) Providing storage facility for the grains.
33. Which of the following economic activity is not the tertiary sector ?
- (A) Banking
 - (B) Bee-keeping
 - (C) Teaching
 - (D) Working in a 'Call-centre'
34. Phosphate test is used in the analysis of —
- (A) Water
 - (B) Tea
 - (C) Milk
 - (D) All of these
35. According to Dr. Wladimir Koppen 'Amw' type of climate in India denotes which of the following ?
- (A) Monsoon type with dry season in high sun period
 - (B) Tropical Savanah type
 - (C) Semi-arid steppe type
 - (D) Monsoon type with short dry winter season

36. What is the full form of 'SOI' related to El Nino ?
- (A) Survey of India
 - (B) Southern Oscillation Index
 - (C) Southern Orientation Index
 - (D) Southern Oscillation Intensity
37. According to growth pole theory leading propulsive industry has strong linkage.
- (A) With the other sectors
 - (B) With the administration
 - (C) With the Central Government
 - (D) With the other geographical area
38. Which one of the following is correct when the combined effect of the pressure gradient force and coriolis force on air current produces ?
- (A) Deflection force
 - (B) Geostrophic force
 - (C) Frictional force
 - (D) Gravitational force
39. The 'Ice Crystal Theory' related to precipitation was propounded by —
- (A) Boven
 - (B) Muir
 - (C) Peterson
 - (D) Bergeron
40. Who was the originator of Human Development Report ?
- (A) Amartya Sen
 - (B) Jan Tin berger
 - (C) Mahaboob ul - Haq
 - (D) Dr. Monmohan Singh

Turn Over

41. Which of the following is not one of the factors related to HDI ?
- (A) Longevity
 - (B) Literacy
 - (C) Descent Standard of living
 - (D) Increase in Govt. Jobs.
42. One of endangered species of Indian Medical Plant is that of —
- (A) Ocimum
 - (B) Nependenthes
 - (C) Garlic
 - (D) Podophyllum
43. Which is one of the following is not included in situ conservation ?
- (A) National Park
 - (B) Botanic Garden
 - (C) Statuary forest
 - (D) Biosphere reserve
44. The pyramid of energy in any ecosystem is —
- (A) Always upright
 - (B) May be upright or inverted
 - (C) Always inverted
 - (D) None of the above

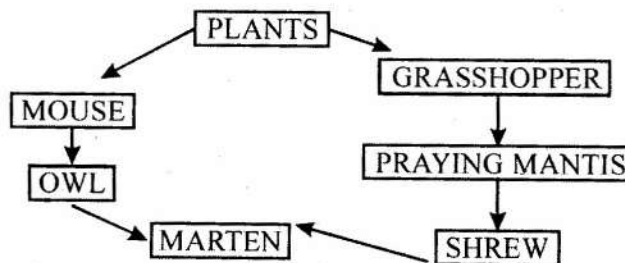
45. Match List - I (Coalfield in India) and List - II (concerned state) and select the correct answer —

List - I		List - II	
(a) Korba		(i) Jharkhand	
(b) Karanpura		(ii) Assam	
(c) Singrauli		(iii) Madhya Pradesh	
(d) Makum		(iv) Chhattisgarh	
(A) (a) → ii	(b) → iii	(c) → iv	(d) i
(B) (a) → ii	(b) iv	(c) → iii	(d) i
(C) (a) → iv	(b) → i	(c) → iii	(d) ii
(D) (a) → iv	(b) → i	(c) → ii	(d) iii

46. What does NFAP stand for ?

- (A) National Food Access programme
- (B) National Frequency Allocation programme
- (C) National Forestry Action programme
- (D) National Foundation Action programme

47. Which one of the following statements is not correct from the diagram of the given food Web ?



- (A) Mouse is a secondary consumer
- (B) Shrew is a tertiary consumer
- (C) Grasshopper is primary consumer
- (D) Owl is both a secondary and quaternary consumer

Turn Over

48. In which state first nuclear power station was commissioned in India ?

- (A) Gujarat
- (B) Rajasthan
- (C) Maharashtra
- (D) Tamil Nadu

49. What is meant by foot loose industry ?

- (A) Raw material oriented industries
- (B) Industries that can locate anywhere
- (C) Capital intensive industries
- (D) Market and manpower oriented industries

50. Full form of pH in pedology is —

- (A) Potential of hydrogen
 - (B) Pressure of hydrogen
 - (C) Presence of hydrogen
 - (D) None of these
-