

Bloom Geography Olympiad Sample Paper

Maximum Time : 60 Minutes

Maximum Marks : 60

INSTRUCTIONS

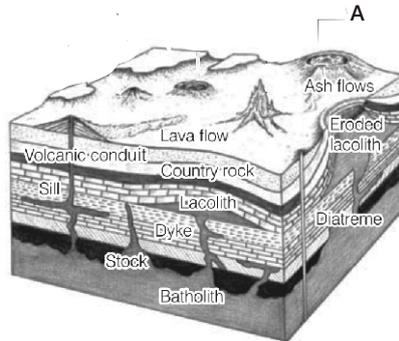
1. There are 50 Multiple Choice Questions in this paper divided into two sections :
Section A 40 MCQs; 1 Mark each
Section B 10 MCQs; 2 Marks each
2. Each question has Four Options out of which **ONLY ONE** is correct.
3. All questions are compulsory.
4. There is no negative marking.
5. No electric device capable of storing and displaying visual information such as calculator and mobile is allowed during the course of the exam.

Roll No.

Student's Name

Section-A (1 Mark each)

1. The regional approach of geography was developed by who among the following?
 - (a) Karl Ritter
 - (b) Alexander von Humboldt
 - (c) Ptolemy
 - (d) Ibn-e- Battuta
2. Identify the wrong statement in relation to terrestrial planets.
 - (a) They have low gravitational pull.
 - (b) They are formed at quite a distant location.
 - (c) They could not hold the escaping gases.
 - (d) They are made up of rocks and metal and have relatively high densities.
3. Identify the feature marked as 'A' in the given diagram of volcanic landforms.



- (a) Lava plateau
 - (b) Caldera with cinder cone
 - (c) Lava mesa
 - (d) Cinder cone
4. Soils are formed by the process of
 - (a) pedogenesis
 - (b) soil synthesis
 - (c) photosynthesis
 - (d) radio genesis
 5. Which of the following experts gave the nebular hypothesis?
 - (a) Laplace
 - (b) Immanuel Kant
 - (c) Chamberlain
 - (d) Moulton

- 6.** Which among the following statements is correct about Volcanoes?
- (a) They are indirect source of information about the Earth's interior.
 - (b) They are direct source of information about the interior of the Earth.
 - (c) They are not a source of information about the interior of the Earth.
 - (d) They are good source to ascertain Earth's temperature.
- 7.** Which of the following terms is related to polar-fleeing force?
- (a) Gravitation
 - (b) Revolution of the Earth
 - (c) Rotation of the Earth
 - (d) Tides
- 8.** Consider the following statements and choose the incorrect option.
- (a) A mineral is a naturally occurring organic and inorganic substance.
 - (b) A mineral has an orderly atomic structure and a definite chemical composition.
 - (c) A mineral is composed of two or more elements.
 - (d) None of the above
- 9.** Rapid rolling or sliding of Earth debris without backward rotation of mass is known as
- (a) debris slide
 - (b) slump
 - (c) rockslide
 - (d) mudflow
- 10.** Which one of the following is not a minor plate?
- (a) Nazca
 - (b) Arabia
 - (c) The Philippines
 - (d) Antarctica
- 11.** Identify the mineral group which is abundantly found in the Earth' crust.
- (a) Mica group
 - (b) Feldspar group
 - (c) Oxide group
 - (d) Silicate group
- 12.** Name the example of degradational process from the given options.
- (a) Diastrophism
 - (b) Volcanism
 - (c) Erosion
 - (d) Disposition

- 13.** is a deep, long and wide trough or basin with very steep concave high walls at its head as well as in sides.
- (a) Cirque
 - (b) Glacial valley
 - (c) Lateral moraine
 - (d) Esker
- 14.** Excess of carbon dioxide in the atmosphere due to pollution will cause which of the following?
- (a) Earth's temperature to rise.
 - (b) Earth's temperature to fall.
 - (c) Decrease in weather phenomenon.
 - (d) Ozone layer to become thicker.
- 15.** Consider the following statements about isotherm and choose the correct option.
- (a) The line joining the place of equal pressure.
 - (b) The line joining the places of equal temperature.
 - (c) The incoming short-wave radiation.
 - (d) None of the above
- 16.** Complete the given analogy.
Cyclones : Indian Ocean :: Hurricanes : ?
- (a) Atlantic Ocean
 - (b) Western Pacific and South China Sea
 - (c) Western Australia
 - (d) None of the above
- 17.** Natural levees and point bars are depositional landform of
- (a) glaciers
 - (b) waves
 - (c) winds
 - (d) rivers
- 18.** Name the zone that separates troposphere from stratosphere.
- (a) Mesopause
 - (b) Tropopause
 - (c) Ionopause
 - (d) Stratopause
- 19.** Why higher latitudes are not permanently frozen?
- (a) Because of presence of warm and cold currents.
 - (b) Because of very less isolation.
 - (c) Because of redistribution of surplus heat energy polewards from tropics .
 - (d) Because of local aspects.

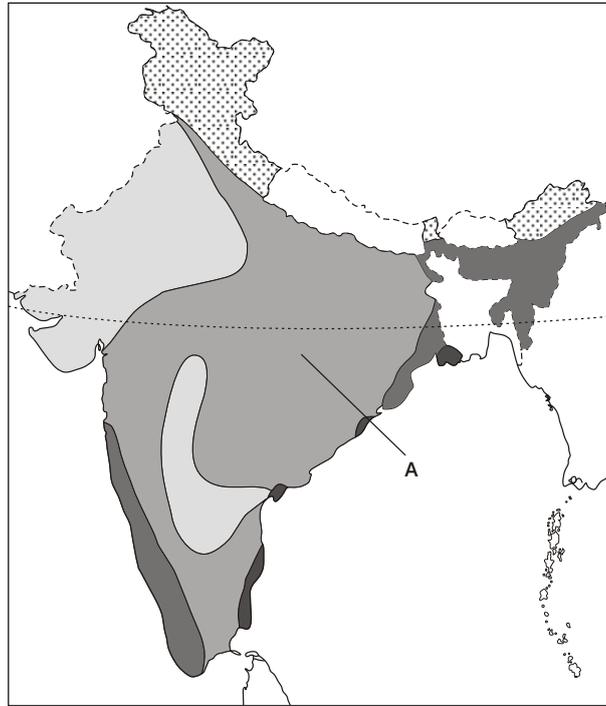
- 20.** If an air mass is fully lifted above the land surface, it is called
- (a) anti-cyclones
 - (b) cold front
 - (c) occluded front
 - (d) warm front
- 21.** Identify the country which tops in the production of cocoa.
- (a) Ghana
 - (b) Brazil
 - (c) Ivory Coast
 - (d) Nigeria
- 22.** In which among the following areas living organisms are found?
- (a) From freezing waters to dry valley.
 - (b) From the Poles to the Equator.
 - (c) From the bottom of sea to several km in the air.
 - (d) All of the above
- 23.** The factors that affect the origin and movement of currents is/are
- (a) river flow
 - (b) tides
 - (c) salinity and density of water
 - (d) prevailing winds
- 24.** Why nights are cooler in the deserts than in the plains?
- (a) Sand absorbs heat more quickly than the Earth.
 - (b) The sky remains clear most of the time.
 - (c) Sand radiates heat more quickly than the Earth.
 - (d) None of the above
- 25.** The coral reefs are a major characteristic of this ocean. Name the ocean.
- (a) The Indian Ocean
 - (b) The Atlantic Ocean
 - (c) The Mediterranean Ocean
 - (d) The Pacific Ocean
- 26.** Which among the following is not true regarding the causes of loss of biodiversity?
- (a) Illegal hunting
 - (b) Natural calamities
 - (c) Conservation of animals
 - (d) Pesticides

- 27.** is a plant and animal community that covers a large geographical area.
- (a) Biosphere
 - (b) Biome
 - (c) Marshes
 - (d) Prairies
- 28.** Identify the mountain ranges from the given options, that lies on the North-Western part of India.
- (a) Himalayas
 - (b) Hindukush and Sulaiman ranges
 - (c) Purvanchal Hills
 - (d) All of the above
- 29.** Complete the given analogy.
Indus River : Bokhar Chu :: The Ganga : ?
- (a) Darjeeling Hills
 - (b) Gangotri Glacier
 - (c) Malwa Plateau
 - (d) Chemayungdung Glacier
- 30.** What type of soil, the desert biome has?
- (a) Porous with thin layers of humus
 - (b) Rich in nutrients with little organic matter
 - (c) Acidic, poor in nutrients
 - (d) Fertile soil
- 31.** The energy emanating from within the Earth is the main force behind endogenic geomorphic processes. This energy is generated by many factors. Identify the main factor(s).
- (a) Radioactivity
 - (b) Rotational and tidal friction
 - (c) Primordial heat from the origin of the Earth
 - (d) All of the above
- 32.** Deccan Plateau comes under the area of this rainfall region. Name the region.
- (a) High rainfall region
 - (b) Medium rainfall region
 - (c) Low rainfall region
 - (d) Inadequate rainfall region
- 33.** When the primary tributaries of rivers flow parallel to each other and secondary tributaries join them at right angles, the pattern is known as
- (a) trellis
 - (b) dendritic
 - (c) centripetal
 - (d) radial

- 34.** This place receives lowest rainfall in India. What is the name of this place?
(a) Bikaner (b) Jaisalmer
(c) Leh (d) Jodhpur
- 35.** In which of the following places the Nanda Devi Biosphere Reserve is situated?
(a) Kerala
(b) West Bengal
(c) Uttarakhand
(d) Himachal Pradesh
- 36.** Khadar soil is a common phenomenon of this region in India. Name the region.
(a) In piedmont plains
(b) In flood plains
(c) In the foothills
(d) Over plateaus
- 37.** Which among the following river valley project has been constructed to check floods in India?
(a) Annasagar Project
(b) Bhakra Nangal Dam
(c) Damodar Valley Corporation
(d) Narmada Dam
- 38.** The world's richest region from marine biodiversity is
(a) Sunderbans
(b) Nilgiri Biosphere Reserve
(c) Gulf of Myanmar
(d) Gulf of Mannar Biosphere Reserve
- 39.** Consider the following statements and choose the correct option.
(a) Laterite has been derived from the Latin word 'Later' which means brick.
(b) Laterite soils develop in areas with high temperature and high rainfall.
(c) Laterite soils are the result of intense leaching due to tropical rains.
(d) All of the above
- 40.** Debris flow that originates on the slope of a volcano is known as
(a) fall
(b) creep
(c) lahar
(d) lateral spreads

Section-B (2 Marks each)

41. Identify the type of natural vegetation marked as 'A' on the given outline map of India.



- (a) Tropical Evergreen and Semi-Evergreen Forests
- (b) Tropical Deciduous Forests
- (c) Tropical Thorn Forests
- (d) Montane Forests

42. Match the following.

List I	List II
A. Alluvial soil	1. The Brahmaputra valley
B. Black soil	2. Parts of Maharashtra
C. Red and yellow soils	3. Along the piedmont zone of the Western Ghats
D. Laterite soils	4. Karnataka

Codes

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

43. There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes given below.

Assertion (A) The crust and the uppermost part of the mantle is called lithosphere.

Reason (R) The lower mantle extends beyond the asthenosphere.

Codes

- (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

44. Consider the following statements and choose the main feature(s) of rural settlement.

- I. Arthur Holmes in 1930s discussed the possibility of convection currents operating in the mantle portion.
- II. Convection currents are generated due to radioactive elements causing thermal differences in the mantle portion.
- III. Convectional current theory led to rejection of continental drift theory.

Codes

- (a) Only I
- (b) Both I and II
- (c) Both III and IV
- (d) All of the above

45. Arrange the following steps of soil form in sequence.

- I. Growth of minor grasses and ferns
- II. Penetration of plant roots
- III. Colonisation of weathered material by bacteria
- IV. Mass of material become porous

Codes

- (a) I, II, III, IV
- (b) IV, III, II, I
- (c) III, I, II, IV
- (d) II, III, I, IV

Directions (Q. No. 46-47) Read the passage given below and answer the following questions.

The Ganga is the most important river of India both from the point of view of its basin and cultural significance. It rises in the Gangotri glacier near Gaumukh (3,900 m) in the Uttarkashi district of Uttarakhand. Here, it is known as the Bhagirathi. It cuts through the Central and the lesser Himalayas in narrow gorges.

- 46.** Which major city is located on the banks of River Ganga?
- Lucknow
 - Allahabad
 - Patna
 - All of the above
- 47.** The Ganga enters the plains at which among the following places?
- Haridwar
 - Kashi
 - Rudra Prayag
 - None of the above
- 48.** Read the following statements and select the option that correctly identifies which ones are true (T) and which ones are false (F).
- The hot weather season in South India is mild and not so intense as found in North India.
 - Due to altitude, the temperatures in the hills of Western Ghats remain below 25°C.
 - In the coastal regions, temperature does not decrease from North to South rather it increases from the coast to the interior.

Codes

- | | I | II | III |
|-----|---|----|-----|
| (a) | T | F | F |
| (b) | F | F | T |
| (c) | F | T | T |
| (d) | T | T | T |

- 49.** Consider the following statements about water vapour and choose the correct option.
- Water vapour is also a variable gas in the atmosphere, which decreases with altitude.
 - In the warm and wet tropics, water vapour may account for 4 per cent of the air by volume.
 - In the dry and cold areas of desert and polar regions, water vapour may be less than 1 per cent of the air.
 - Water vapour increases from the equator towards the poles.

Codes

- I and II
- III and IV
- I, II and III
- All of the above

50. There are two statements marked as Assertion (A) and Reason (R). Mark your answer as per the codes given below.

Assertion (A) Igneous rocks are known as primary rocks.

Reason (R) All kinds of rocks are directly or indirectly formed from igneous rocks.

Codes

- (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

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Answers

1. (a) Karl Ritter
2. (b) They are formed at quite a distant location.
3. (b) Caldera with cinder cone
4. (a) pedogenesis
5. (a) Laplace
6. (b) They are direct source of information about the interior of the Earth.
7. (c) Rotation of the Earth
8. (d) None of the above
9. (a) debris slide
10. (d) Antarctica
11. (b) Feldspar group
12. (c) Erosion
13. (a) Cirque
14. (a) Earth's temperature to rise.
15. (b) The line joining the places of equal temperature.
16. (a) Atlantic Ocean
17. (d) rivers
18. (b) Tropopause
19. (c) Because of redistribution of surplus heat energy polewards from tropics.
20. (c) occluded front
21. (c) Ivory coast
22. (d) All of the above
23. (c) salinity and density of water
24. (c) Sand radiates heat more quickly than the Earth.
25. (d) The Pacific Ocean
26. (c) Conservation of animals
27. (b) Biome
28. (b) Hindukush and Sulaiman ranges
29. (b) Gangotri glacier
30. (b) Rich in nutrients with little organic matter
31. (d) All of the above
32. (c) Low rainfall region

- 33.** (a) trellis
- 34.** (c) Leh
- 35.** (c) Uttarakhand
- 36.** (d) In flood plains
- 37.** (c) Damodar Valley Corporation
- 38.** (d) Gulf of Mannar Biosphere Reserve
- 39.** (d) All of the above
- 40.** (c) lahar
- 41.** (b) Tropical Deciduous Forests
- 42.** (a) 1 2 3 4
- 43.** (b) Both A and R are true, but R is not the correct explanation of A
- 44.** (d) All of the above
- 45.** (c) III, I, II, IV
- 46.** (d) All of the above
- 47.** (a) Haridwar
- 48.** (d) T T T
- 49.** (c) I, II and III
- 50.** (a) Both A and R are true and R is the correct explanation of A