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UPDATED
PRELIMS
PRACTICE WORKBOOK
PAPER - I (GS)

NCERT⁺
(BASED PRACTICE QUESTIONS)

2000⁺
MCQs

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PRELIMS PRACTICE WORKBOOK

PRELIMS GS (PAPER I)

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“You can’t build a great building on a weak foundation”

For UPSC CSE aspirants, NCERT Books are highly recommended before moving on to other reference books, the reason is that they help in building a strong solid foundation based on holistic approach. NCERT books have concise and compact coverage of almost all the topics which are mentioned in UPSC Civil Services Syllabus. Analysis of Previous years question papers shows that questions are consistently asked either directly or indirectly from NCERT books.

Subject-Wise Analysis of previous years Civil Services Preliminary Examinations

YEAR	GEO.	ENVIR.	HISTORY	POLITY	ECO.	General Science	Current Affairs
2011	11	15	11	12	19	19	13
2012	12	12	17	11	13	9	26
2013	9	13	11	13	15	11	28
2014	12	17	17	11	10	13	20
2015	14	10	14	13	13	7	29
2016	7	18	15	7	18	8	27
2017	7	11	14	22	8	4	34
2018	8	13	15	13	16	7	28
2019	14	11	17	15	14	7	22

The GS SCORE Prelims Workbook (Volumes) consists of questions from the following topics:

Subjects	Questions	Subjects	Questions
1. Geography	320+	4. Polity	350+
2. Environment	220+	5. Economy	340+
3. History	500+	6. Gen. Science	170+

PRELIMS PRACTICE WORKBOOK

VOL-1

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GEOGRAPHY

PRACTICE QUESTIONS

GEOMORPHOLOGY

1. Consider the following statements regarding the **Nebular Hypothesis**:
1. The hypothesis considered that the planets were formed out of a cloud of material associated with a youthful sun, which was slowly rotating.
 2. Otto Schmidt was the major proponent of Nebular Hypothesis.
- Which of the above statements is/are **incorrect**?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
2. Consider the following statements regarding the **Big Bang Theory**:
1. Sir James Jeans and Sir Harold Jeffrey provided the evidence of the Big bang theory.
 2. The theory is also called as expanding universe hypothesis.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
3. Consider the following statements regarding **Terrestrial Planets**:
1. They have a thick atmosphere, mostly of helium and hydrogen.
 2. They are made up of rock and metals and have relatively high densities.
- Which of the above statements is/are **incorrect**?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
4. Which of the following conditions correctly differentiates between the **Terrestrial and the Jovian planets**?
1. The Jovian Planets were formed in the close vicinity of the parent star whereas Terrestrial Planets were formed at quite a distant location.
 2. The terrestrial planets are bigger than jovian planets.
- Select the correct answer using the code given below:
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
5. 'The Big Splat' theory describes the formation of the:
- (a) Sun (c) Moon
(b) Earth (d) Mars
6. Consider the following description:
- "In 1900, a theory of the origin of the earth was developed. It considered that a wandering star approached the sun. As a result, a cigar-shaped extension of the material was separated from the solar surface. As the passing star moved away, the material separated from the solar surface continued to revolve around the sun and it slowly condensed into planets."
- Which of the following theories is discussed in the above-given passage?
- (a) Nebular Hypothesis
(b) The Big Splat Theory
(c) Chamberlain and Moulton theory
(d) Big Bang Theory
7. Consider the following statements with respect to the **evolution of lithosphere**:
1. It is through the process of differentiation that the earth forming material got separated into different layers.
 2. From the crust to the core, the density of the material decreases.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
8. Which of the following best explains the concept of '**DEGASSING**'?
- (a) The early atmosphere filled with water vapour, nitrogen, carbon dioxide and oxygen
(b) The release of energy occurs along a fault.
(c) The process of continuous volcanic eruptions
(d) The process through which the gases were outpoured from the interior of the earth.

9. Consider the following statements regarding the evolution of atmosphere:
- The early atmosphere largely contained water vapour, nitrogen, carbon dioxide, methane, ammonia and very little of free oxygen.
 - Water vapour in the atmosphere were a result of volcanic eruptions.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
10. Arrange the following stages of the evolution of the earth's atmosphere in chronological order:
- Process of photosynthesis
 - Loss of primordial atmosphere
 - Hot gases outpoured from the interior
- Select the correct answer using the code given below:
- (a) 2-1-3 (c) 2-3-1
(b) 1-2-3 (d) 1-3-2
11. Earth's rotation generates which of the following force?
- (a) Centrifugal force (c) Kinetic Force
(b) Centripetal force (d) Static force
12. Two places situated on the same isogonic line in a world map, will have the same:
- (a) Ground pollution (c) Seismic activity
(b) Cloud cover (d) Magnetic declination
13. Consider the following statements:
- Direct rays of the sun fall on the equator on 21st June
 - Winter solstice is seen in the Southern hemisphere on 21st December.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
14. Greenwich Mean Time (GMT) is the time measured on the earth's zero degree line of longitude or meridian. Through which of the following countries does this 'GMT' line passes?
- France
 - Spain
 - Algeria
 - Niger
- Select the correct answer using the code given below:
- (a) 1, 2 and 3 only (c) 3 and 4 only
(b) 1, 2 and 4 only (d) 1, 2, 3 and 4
15. Consider the following statements regarding the interior structure of the earth:
- The outer core is in solid state while the inner core is in liquid state.
 - The upper portion of the mantle is called asthenosphere.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
16. Consider the following statements regarding Interior of the Earth:
- The density of mantle is higher than the outer core.
 - Core of the earth is considered the main source of magma.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
17. What is asthenosphere?
- (a) It is a layer of atmosphere.
(b) It is a tectonic plate
(c) It is a zone of earth's mantle.
(d) It is a newly discovered outer-space beyond Pluto.
18. Consider the following pairs of discontinuities and its location between the layers of earth:
- Moho Discontinuity:** Mantle - Core
 - Lehmann Discontinuity:** Crust - Mantle
 - Repetti Discontinuity:** Outer core - Inner core
 - Guttensberg Discontinuity:** Upper Mantle - Lower Mantle
- Which of the above pairs are correctly matched?
- (a) 1 and 2 only (c) 2, 3 and 4 only
(b) 3 and 4 only (d) None of the above
19. Consider the following about the interior of the earth:
- Volcanic eruptions are indirect source of information about the interior of the earth.
 - Earthquakes are indirect source of information about the interior of the earth.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
20. The most explosive of the earth's volcanic eruptions are known as:
- (a) Shield Volcano (c) Calderas
(b) Cinder Cone (d) Composite Volcanoes

21. Match the following:

Types of minerals	Name of the minerals
A. Non-metallic	1. Kyanite
B. Metallic	2. Gypsum
C. Refractory	3. Asbestos
D. Fertilizer	4. Wolfram

Select the correct answer using the code given below:

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

22. Arrange the following elements in the ascending order on the basis of their proportion in the composition of earth's crust:

1. Iron
2. Silicon
3. Oxygen
4. Nitrogen

Select the correct answer using the code given below:

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

23. How is Feldspar different from Pyroxene?

1. Pyroxene has larger share than the Feldspar in the composition of earth's crust.
2. Pyroxene is green or black in colour, while Feldspar is light cream or salmon pink in colour.

Select the correct answer using the code given below:

(a) 1 only	(c) Both 1 and 2
(b) 2 only	(d) Neither 1 nor 2

24. Which one of the following is not a single element mineral?

- | | |
|----------|--------------|
| (a) Gold | (c) Silver |
| (b) Mica | (d) Graphite |

25. Match the following:

Minerals	Rock Source
A. Quartz	1. Sand and granite
B. Mica	2. Basaltic Rocks
C. Olivine	3. Igneous and Metamorphic

Select the correct answer using the code given below:

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

26. Consider the following statements about metallic and non-metallic minerals:

1. Metallic minerals contain metal content while non-metallic minerals contain less metals content.
2. Cement is a metallic mineral as it contains iron particles.

Which of the above statements is/are correct?

- | | |
|------------|---------------------|
| (a) 1 only | (c) Both 1 and 2 |
| (b) 2 only | (d) Neither 1 nor 2 |

27. Match the following:

Rock Type	Example
A. Clastic	1. Granite
B. Extrusive	2. Conglomerate
C. Metamorphic	3. Gneiss
D. Plutonic	4. Tuff

Select the correct answer using the code given below:

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

28. Which of the following statements is/are correct about the igneous rocks?

1. It is formed through the cooling and solidification of magma or lava
2. Limestone is an example of igneous rock.

Select the correct answer using the code given below:

- | | |
|------------|---------------------|
| (a) 1 only | (c) Both 1 and 2 |
| (b) 2 only | (d) Neither 1 nor 2 |

29. Which of the following statements is/are correct regarding Igneous Rocks?

1. The process of cooling and solidification of magma happens either in the earth's crust or on the surface of the earth.
2. Gabbro, breccia, and tuff are some of the examples of the igneous rocks.

Select the correct answer using the code given below:

- | | |
|------------|---------------------|
| (a) 1 only | (c) Both 1 and 2 |
| (b) 2 only | (d) Neither 1 nor 2 |

30. In the process of converting unconsolidated sediments into sedimentary rocks, which of the following processes it goes through?

1. Compaction
2. Re-crystallization
3. Cementation
4. Weathering

Select the correct answer using the code below:

- (a) 1 and 4 only
- (b) 2, 3 and 4 only
- (c) 1, 2 and 3 only
- (d) 1, 2, 3 and 4

31. Match the following:

Rock	Sedimentary Type
A. Potash	1. Chemically Formed
B. Shale	2. Mechanically Formed
C. Chalk	3. Organically Formed

Select the correct answer using the code given below:

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

32. Minerals are deposited and accumulated in which of the following?

- (a) Sedimentary rocks
- (b) Metamorphic rocks
- (c) Igneous rocks
- (d) None of the above

33. Which of the following pairs is/are correctly matched?

Rock	Formation
1. Igneous	A. Solidification from magma and lava
2. Sedimentary	B. Deposition of fragments of rocks by exogenous processes.
3. Metamorphic	C. Recrystallization of existing rocks

Select the correct answer using the code given below:

- (a) 1 only
- (b) 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

34. Consider the following statements about metamorphic rocks:

1. Recrystallisation and reorganisation of materials within original rocks form metamorphic rocks.
2. Shale is an example of metamorphic rocks.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

35. Which of the following statements is/are correct about the rock cycle?

1. Igneous rocks are primary rocks and other rocks form from these primary rocks.
2. The crustal rocks once formed may be carried down into the mantle through subduction process.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

36. Consider the following statements regarding exogenic geomorphic processes:

1. They obtain their energy from the gradients generated by tectonic factors.
2. Weathering, transportation, and erosion are examples of exogenic processes.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

37. Consider the following statements regarding endogenic processes:

1. The energy emanating from within the earth is the main force behind endogenic geomorphic processes
2. This energy is generated by radioactivity, rotational and tidal friction and primordial heat from the origin of the earth.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

38. Match the following:

Term	Definition
A. Lithification	1. Arrangement of minerals into thin to thick layers appearing in light and dark shades
B. Foliation	2. Turning of fragments into rocks through compaction
C. Banding	3. Arrangement of minerals in layers in metamorphic rocks

Select the correct answer using the code given below:

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

39. Consider the following statements regarding the endogenic processes:

1. Epeirogenic processes involve mountain building through severe folding and affecting long and narrow belts of the earth's crust
2. Orogenic processes involve uplift or warping of large parts of earth's crust.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

- 40. Physical and Mechanical weathering processes depend on:**
1. Gravitational forces such as overburden pressure, load and shearing stress
 2. Expansion forces due to temperature changes, crystal growth or animal activity
 3. Water pressures controlled by wetting and drying cycles.
- Which of the above statements are correct?
- (a) 1 and 2 only (c) 1 and 3 only
(b) 2 and 3 only (d) 1, 2 and 3
- 41. Consider the following statements regarding weathering:**
1. It is the mechanical disintegration and chemical decomposition of rocks.
 2. It is an ex-situ process.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
- 42. Which of the following forces are responsible for physical weathering?**
1. Gravitational force
 2. Expansion force due to temperature variation
 3. Water pressure
 4. Radioactivity
- Select the correct answer using the code given below:
- (a) 1, 3 and 4 only (c) 1 and 3 only
(b) 1, 2 and 3 only (d) 2 and 4 only
- 43. Consider the following pairs regarding the effects of weathering and their results or regions they are associated with:**
- | Effects of Weathering | Result |
|----------------------------|--------------------|
| 1. Unloading and Expansion | Exfoliation domes |
| 2. Salt weathering | Granular foliation |
| 3. Frost wedging | Glacial regions |
- Which of the above statements are correct?
- (a) 1 and 2 only (c) 2 and 3 only
(b) 1 and 3 only (d) 1, 2 and 3
- 44. Consider the following statements regarding biological weathering:**
1. It refers to weathering caused by microorganisms only.
 2. Biological weathering agents form weak acids, which can convert some of the minerals to clay.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
- 45. Consider the following statements regarding mass movements:**
1. It essentially happens because of gravitational pull.
 2. Weathering is essential for mass movement.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
- 46. Consider the following events with reference to the causes that may lead to mass movements:**
1. Removal of support from below to materials above through natural or artificial means.
 2. Overfilling through addition of materials by artificial filling or naturally.
 3. Event of explosions.
- Which of the above statements are correct?
- (a) 1 and 2 only (c) 2 and 3 only
(b) 1 and 3 only (d) 1, 2 and 3
- 47. Consider the following statements regarding the examples of the types of Mass Movement:**
1. Solifluction is an example of rapid mass movement
 2. Mud-flow is an example of slow mass movement
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
- 48. Solifluction refers to:**
- (a) Moderately steep, soil covered slopes.
 - (b) Slow downslope flowing soil mass or fine grained rock debris saturated with water
 - (c) Movement of water-saturated clayey earth materials down low-angle terraces
 - (d) Thick layers of weathered materials flowing either slowly or rapidly along definite channels.
- 49. Often we see fence posts or telephone poles leaning downslope from their vertical position and in their linear alignment. It is due to which type of mass movement?**
- (a) Creep (c) Landslide
(b) Avalanche (d) Earthflow
- 50. Consider the following description:**
- “It occurs in humid regions with or without vegetation cover and occurs in narrow tracks on steep slopes. It can be much faster than the mudflow.”
- Above description accurately refers to which type of rapid mass movement?
- (a) Creep (c) Solifluction
(b) Debris Avalanche (d) Rock creep

51. Consider the following statements regarding landslides:
- Slump is slipping of one or several units of rock debris with a backward rotation with respect to slope over which movement takes place.
 - Rapid rolling or sliding of earth debris without backward rotation of mass is known as debris slide.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
52. In our country, debris avalanche and landslides occur very frequently in the Himalayas. Which one of the following doesn't account as a reason for it?
- (a) Himalayas are tectonically less active.
(b) large portion of Himalayas is made up of sedimentary rocks and unconsolidated and semi-consolidated deposits.
(c) Himalayas have slopes which are very steep.
(d) None of the above
53. Consider the following statements regarding erosional and depositional agents:
- The erosion, transportation and deposition of earth materials is brought about by wind, running water, glaciers, waves and ground water.
 - Glaciers are more effective erosional agent than wind.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
54. Which of the following seismic waves are body waves?
- Primary waves
 - Secondary waves
 - Love waves
- Select the correct answer using the code given below:
- (a) 1 and 2 only (c) 1 and 3 only
(b) 2 and 3 only (d) 1, 2 and 3
55. With reference to Primary waves (P-waves), consider the following statements:
- P-waves move the fastest and are the first to arrive at the surface.
 - These waves can travel only through solid materials.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
56. With reference to Epicenter, consider the following statements:
- The point on the surface, nearest to the focus, is called epicenter.
 - It is the first one to experience the earthquake waves.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
57. Consider the following statements about seismic waves:
- P – wave shadow zone lies between 104 to 142 degrees.
 - S – wave shadow zone lies between 103 to 142 degrees.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
58. With reference to Shadow Zone, consider the following statements:
- It is a specific area on the earth's surface where the seismic waves are reported.
 - For each earthquake there exists an altogether different shadow zone.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
59. Earthquake waves get recorded in seismographs located at far off locations. However, there exist some specific areas where the waves are not reported. Such a zone is called as:
- (a) Seismograph zone (c) Epicentre zone
(b) Littoral zone (d) Shadow zone
60. Consider the following statements with respect to the types of earthquakes:
- Explosion earthquakes occur in the areas of intense mining activity.
 - Ground shaking may also occur due to the explosion of chemical or nuclear devices. Such tremors are called collapse earthquakes.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
61. Earthquake is a natural hazard. Which of the following are the immediate effects of earthquake?
- Differential ground settlement
 - Soil liquefaction
 - Ground lurching

4. Avalanches

Select the correct answer using the code given below:

- (a) 1, 2 and 3 only (c) 1 and 4 only
(b) 2, 3 and 4 only (d) 1, 2, 3 and 4

62. **The earthquake events are scaled either according to the magnitude or intensity of the shock. Consider the following statements in this regard:**

1. The magnitude scale is known as the Richter scale wherein the magnitude relates to the energy released during the quake.
2. The intensity scale is known as the Mercalli scale which takes into account the visible damage caused by the event.

Which of the above statements is/are **incorrect**?

- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2

63. **Consider the following statements regarding Earthquake Waves:**

1. All natural earthquakes take place in the asthenosphere.
2. Body waves are faster than Surface waves and arrive first at the Surface hence they are more damaging than surface waves.

Which of the above statements is/are **incorrect**?

- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2

64. **Consider the following statements regarding Body Waves:**

1. The velocity and density changes as the Body waves travel through materials of different densities that helps in understanding the structure of Earth's interior.
2. Surface wave is a type of Body wave.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2

65. **Consider the following statements with respect to volcanic eruption:**

1. The material in the upper mantle portion is called lava.
2. Once it starts moving towards the crust or it reaches the surface, it is referred to as magma.

Which of the above statements is/are **incorrect**?

- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2

66. **Consider the following statements:**

1. Composite Volcanoes are characterised by eruptions of cooler and more viscous lavas than basalt.

2. The Hawaiian volcanoes are the most famous examples of Composite Volcanoes.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2

67. **Consider the following statements:**

1. Flood basalt provinces volcanoes outpour highly fluid lava that flows for long distances.
2. The Deccan Traps covering most of the Maharashtra plateau, are example of flood basalt province.

Which of the above statements is/are **incorrect**?

- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2

68. **The volcanoes that occur in the oceanic areas are known as:**

- (a) Lacoliths Volcanoes
(b) Cinder Cone
(c) Mid-Ocean Ridge Volcanoes
(d) Caldera

69. **Consider the following statements with respect to the volcanic landforms:**

1. Batholiths are large body of magmatic material that cools in the deeper depth of the crust develop in the form of large domes.
2. The Karnataka plateau is spotted with domal hills of granite rock are examples of lacoliths.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2

70. **Match the following:**

List I	List II
A. Lapoliths	1. It is an example of Flood Basalt Province.
B. Sills	2. A type of intrusive volcanic landforms having saucer shape.
C. Dykes	3. A vertical wall-like structure that forms after cooling of lava.
D. Deccan Trap	4. A thin horizontal intrusive igneous landform.

Select the correct answer using the code given below:

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

71. Which of the following is not an Intrusive Volcanic landform?

- (a) Laccoliths
- (b) Sills
- (c) Cinder cone
- (d) Dyke

72. With reference to Zealandia, which of the following statements is incorrect?

- (a) Zealandia has land mass of around 5 million sq km.
- (b) 94 percent of Zealandia is underwater, it has distinctive geology, and crust is much thicker than that found on ocean floor.
- (c) New Zealand, New Caledonia and Lord Howe Island lies above the surface.
- (d) Zealandia was part of Angaraland which was part of Pangea.

73. Which of the following evidences support the Continental Drift Theory?

1. Matching of Africa and South America continents.
2. Rocks of the same age across the oceans
3. Absences of source rock in the region of rich placer deposits
4. Distribution of fossils

Select the correct answer using the code given below:

- (a) 3 and 4 only
- (b) 1 and 3 only
- (c) 2 and 4 only
- (d) 1, 2, 3 and 4

74. Consider the following statements regarding 'Continental Drift Theory' suggested by Alfred Wegener:

1. He named super-continent as Pangaea, which meant all earth.
2. Pangaea broke into three large continental masses as Laurasia, Gondwanaland, and Panthalassa.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

75. With reference to the theory of Isostasy, consider the following statements:

1. It is based on the opposing influence of two main forces i.e. Buoyancy and Gravity
2. It is the state of gravitational equilibrium between earth's crust and core.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

76. Consider the following statements about the sea-floor spreading theory:

1. The theory was proposed by Harry Hess.

2. One of the assumption made is that spreading of one ocean causes the shrinking of the other.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

77. Which of the following forces, according to Alfred Wegener, were responsible for the drifting of the continents?

- (a) Pole-fleeing force and tidal force
- (b) Gravitational and centripetal force
- (c) Tidal force and kinetic forces
- (d) Only Gravitational forces

78. Consider the following statements about the Convectonal Current Theory:

1. Convection currents are generated due to radioactive elements causing thermal differences in the inner core portion of the earth.
2. These convection currents spread from core to the mantle portion resulting in the force for the drift of the continents.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

79. Which of the following plates can be categorized as the major plates?

1. Antarctica and Pacific plate
2. North American Plate
3. Arabian Plate
4. Caroline Plate

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3 only
- (d) 1, 2, 3 and 4

80. Match the following:

Minor Tectonic Plates

Extension

- | | |
|------------------|--|
| A. Cocos plate | 1. Between South America and Pacific plate |
| B. Nazca plate | 2. Between Central America and Pacific plate |
| C. Arabian plate | 3. Mostly the Saudi Arabian landmass |

Select the correct answer using the code given below:

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

- 81. Which of the following statements is/are correct about the divergent plate boundaries?**
1. Mid-Atlantic Ridge is an example of divergent plate.
 2. New Crust is created when plates pull apart from each other.
- Select the correct answer using the code given below:
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
- 82. Consider the following statements about the convergent boundaries as per plate tectonics theory:**
1. Crust is destroyed when two plates converge .
 2. Only convergence of oceanic and continental plates is possible.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
- 83. Which of the following statements is/are correct about the plate movement?**
1. The strips of normal and reverse magnetic field that parallel the mid-oceanic ridges help scientists determine the rates of plate movement
 2. Convection current is responsible for the movement of the plates.
- Select the correct answer using the code given below:
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
- 84. Which of the following physiographic features are formed due to collision of Continental plates on the Earth's surface?**
1. The Alps
 2. The Himalayas
 3. The Rockies
 4. The Caucasus Mountains
- Select the correct answer using the code given below:
- (a) 1, 2 and 3 only (c) 1, 2 and 4 only
(b) 2, 3 and 4 only (d) 1, 3 and 4 only
- 85. Which of the following statements is incorrect regarding variation of biodiversity over Earth's surface?**
- (a) Terrestrial biodiversity is higher near the equator than poles.
 - (b) Exogenic processes play no role in influencing biodiversity.
 - (c) The polar region has a large population of fewer species than the tropical region.
 - (d) None of the above.
- 86. Which of the following best explains the landforms 'Mesas and Buttes'?**
- (a) Flat, table like land masses with a very resistant horizontal top layer & very steep sides.
 - (b) Formation of irregular edges on alternate bands of softer & harder rocks.
 - (c) Tabular masses which have a layer of soft rocks lying beneath a surface layer of more resistant rocks.
 - (d) Isolated residual hills rising abruptly from the ground level
- 87. Consider the following statements regarding Pediments and Pediplains :**
1. Pediments are formed by lateral erosion by combined action of wind and streams.
 2. Pediplains are fluvial landforms which are found in the foot of hills in desert while pediments are low-lying reliefs found in deserts.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
- 88. Consider the following statements regarding erosional desert landforms:**
1. Playas are shallow lakes formed at the centre of basin surrounded from all sides by uplands.
 2. Deflation hollows are shallow depressions formed due to persistent movement of wind currents in a particular direction.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
- 89. Consider the following statements regarding different erosional fluvial landforms :**
1. Mushroom rocks are formed due to equivalent erosional action of winds at different level from earth's surface.
 2. When the top of a mushroom rocks carved out as square then it is called pedestal rock.
- Which of the above statements is/are correct?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2
- 90. Consider the following statements regarding depositional landforms in deserts:**
1. Barchans are parabolic shaped sand dunes found in desert.
 2. Longitudinal dunes are formed when supply of sand blowing in the region is good and wind direction is not constant.
- Which of the above statements is/are **incorrect**?
- (a) 1 only (c) Both 1 and 2
(b) 2 only (d) Neither 1 nor 2

91. Which of the following statements is correct regarding Loess?

- They are formed when the surface covered by deposits of wind transported silt that has settled out from dust storms over many thousands of years.
- It is long, narrow ridges of sand that lie parallel to the direction of the prevailing winds.
- It is an isolated heap of free sand.
- It dunes are common in the western part of the Thar Desert of India.

92. Meanders are formed in which of the following course of the river?

- Mountain course
- Middle course
- Lower course

Select the correct answer using the code given below:

- 1 only
- 2 only
- 1 and 2 only
- 2 and 3 only

93. Consider the following statements regarding erosional landforms created by rivers:

- Canyon is an extreme type of V-shaped valley with the very steep sides and no valley floor.
- Grand Canyon is associated with the Colorado River.

Which of the above statements is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

94. Which of the following landforms are formed by river streams during their youth stage?

- V-Shaped valleys
- Rapids
- Waterfalls
- Oxbow lakes

Select the correct answer using the code given below:

- 1, 2 and 3 only
- 1 and 3 only
- 2 and 4 only
- 1, 2, 3 and 4

95. Which of the following are the erosional landforms formed by running water?

- Potholes and Plunge Pools
- River Terraces
- Floodplains
- Sinkholes
- Incised meanders

Select the correct answer using the code given below:

- 2 and 4 only
- 3, 4 and 5 only
- 1, 2 and 3 only
- 1, 2 and 5 only

96. Which of the following statements is incorrect?

- Gorges and canyons are formed out of soft sedimentary rocks.
- Potholes are the circular depressions formed over the rocky beds of hill-streams
- Large and deep holes at the base of waterfalls are called plunge pools.
- None of the above

97. Which of the following statements is/are correct with reference to meandering of rivers?

- It is a channeled pattern formed over floodplains and delta plains.
- Its formations depends upon the propensity of water flowing, unconsolidated nature of alluvial deposits and coriolis force

Select the correct answer using the code given below:

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

98. Consider the following landforms:

- Natural levees and point bars are the erosional landforms associated with floodplains.
- Point bars are the sediments deposited on the convex side of meanders of large rivers.

Which of the above statements is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

99. Which of the following are erosional features in a fluvial landscape?

- River terrace
- Incised Meander
- Fans
- Deltas

Select the correct answer using the code given below:

- 1 and 2 only
- 1, 2 and 4 only
- 2, 3 and 4 only
- 2 and 3 only

100. Which of the following is not a feature of karsts landforms?

- Sinkholes
- Uvalas
- Point bars
- Stalactite

101. Which of the following statements is/are correct with reference to Karst topography?

- It is a result of the action of groundwater through the processes of solution and deposition.
- It is a dominant feature of the limestone regions.

Select the correct answer using the code given below:

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

102. Which one of the following sentences best defines the term 'Uvalas'?

- A landform whose opening is more or less circular at the top and funnel shaped towards bottom
- An irregular surface with sharp pinnacles, grooves and ridges
- An elongated trench formed when sink holes and dolines join together
- A small to medium sized shallow depression on the surface of limestones

103. Consider the following landforms:

- A stalagmite is a mineral formation that has its base on the ceiling of a cave whereas stalactites rise up from the floor of the caves.
- Stalagmites and stalactites are the depositional landforms of groundwater.

Which of the above statements is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

104. Consider the following statements regarding the continental glaciers:

- A thick ice sheet covering a vast area of land is called a continental glacier.
- Continental glaciers build up at the centre and move outward in all directions.

Which of the above statements is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

105. Consider the following statements regarding the Valley Glaciers:

- When a mass of ice from the high mountainous regions starts moving down into the pre-existing valleys, it is called a valley glacier.
- Siachen Glacier lies in the Pir Panjal Range of Himalayas.

Which of the above statements is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

106. Which of the following landforms is/are created by glacial erosion?

- Cirque
- 'U' shaped valley
- Hanging Valley

Select the correct answer using the code given below:

- 1 and 2 only
- 2 only
- 2 and 3 only
- 1, 2 and 3

107. Consider the following statements regarding the Hanging Valley:

- The Hanging Valley of the tributary glacier looks like hanging downwards at the point of its confluence with the main valley.
- When the ice melts in the hanging valley, a waterfall is formed at the point of confluence of this stream with the main river.

Which of the above statements is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

108. Consider the following statements regarding the Erosional Landforms formed by glaciers:

- Horns are formed by lateral erosion of the cirque walls by glaciers.
- Serrated Ridges or Arêtes are formed by the erosion of headwall of cirques.

Which of the above statements is/are incorrect?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

109. Consider the following statements regarding the Glacial Valleys and Troughs:

- Glacial Valleys contain moraines, hanging valleys and are swampy in appearance.
- Fjords are shallow depressions found alongside glacial valleys.

Which of the above statements is/are incorrect?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

110. When the glacier melts or retreats, it deposits its load of different parts and the deposited debris called moraines. Consider the following statements regarding different types of moraines:

- Moraines thus formed on the confluence of two glaciers are called terminal moraines.
- When the glacier melts, the debris is deposited at the end of the valley glacier in the form of a ridge called lateral moraine.
- The moraine which is deposited on either side of a glacier is called medial moraine.

Which of the above statements is/are incorrect?

- 1 only
- 2 and 3 only
- 1 and 3 only
- 1, 2 and 3

111. 'Eskers are unique depositional land forms formed by running water in glaciated regions.' Consider the following statements about them:

- They are sinuous ridge formed by accumulation of debris of boulders and rocks beneath a glacier.
- Gravel and boulders are accumulated by sub-glacial streams flowing beneath the glaciers.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2 (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2 (b) 2 only (d) Neither 1 nor 2

112. Consider the following statements regarding Drumlins:

1. They are ridge like features in glaciated regions having pointed peaks.
2. They indicate the direction of flow of glaciers.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2

113. Consider the following statements regarding the erosive action of sea waves:

1. When the sea water loaded with rock fragments and sand attack the coastal rocks it is called abrasion.
2. The rock particles present in the water hit against each other and break into progressively smaller particles, the process is called attrition.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2

114. Which of the following landforms are created by the sea waves?

1. Sea Cliff
2. Sea Caves
3. Sea Arches
4. Bars and Spits

Select the correct answer using the code given below:

- (a) 1 and 3 only (c) 1, 2 and 3 only
 (b) 1 and 4 only (d) 1, 2, 3 and 4

115. Which of the following statements regarding a Fjord is/are correct?

1. It is an emergent coast which originally was a submerged glaciated valley.
2. It is long, narrow inlet of the sea bounded by steep mountain slopes extending to considerable depths.

Select the correct answer using the code given below:

- (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2

116. Consider the following statements regarding physical features alongside high rocky coasts:

1. It possess different depositional features formed by sea waves such as wave-built terrace.
2. Bars and spits are absent at high rocky coasts due to washing away of eroded materials by sea waves.

Which of the above statements is/are correct?

117. Consider the following statements regarding Low Sedimentary Coasts:

1. Coastal plains and deltas are prominent physical features formed alongside low sedimentary coasts.
2. Western coast of Indian Peninsula is low sedimentary coast while eastern coast is high rocky coast.

Which of the above statements is/are **incorrect**?

- (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2

118. Consider the following statements regarding the Erosional Coastal Landforms:

1. Sea-cliffs are horizontal while terraces are vertical erosional features in coastal regions.
2. On foot of wave cut terraces, sea cliffs are formed by the erosional work of breaking waves.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2

119. Consider the following statements regarding the Caves and Stacks:

1. Sea stacks are wide hollows which are formed by at the base of cliffs due to impact of sea waves.
2. Caves are isolated masses of rocks standing offshore formed due to separation from cliffs by wave action.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2

120. Consider the following statements regarding the depositional coastal landforms:

1. Shingle beaches are those beaches which are formed by small pebbles and cobbles.
2. Beaches and dunes are common features found alongside high rocky coasts.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2

121. Consider the following statements regarding depositional coastal landforms:

1. Barriers are attached to the seashore while spits are offshore depositional landforms formed by sea waves.
2. Barriers are submerged landforms while bars are found on the surface of sea or ocean.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2 (e) 4 2 1 3
 (b) 2 only (d) Neither 1 nor 2 (f) 2 3 4 1

122. Consider the following statements regarding Outwash Plains:

- They are transition zone between glacial mountains and continental ice-sheets.
- They are made up of fluvial deposits similar to alluvial plains formed by rivers.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2

123. Consider the following statements regarding Erosional process:

- It is controlled by the Kinetic Energy.
- Weathering is a pre-condition for erosion to take place.

Which of the above statements is/are correct?

- (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2

124. Match the following:

List-I	List-II
A. Solution	1. Takes place below the water table
B. Carbonation	2. Removal of solids in solution
C. Hydration	3. Breaking down of feldspar
D. Reduction	4. Minerals take up water and expand

Select the correct answer using the code given below:

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

125. Consider the following statements regarding Exfoliated Domes and Exfoliated Torse:

- Both are developed from expansion due to unloading and pressure release.
- Exfoliated domes are large, smooth rounded domes, while exfoliated tors are smooth, surfaced and rounded small to big boulders.

Which of the above statements is/are **incorrect**?

- (a) 1 only (c) Both 1 and 2
 (b) 2 only (d) Neither 1 nor 2

126. A weathering process, in which layers of rocks peel off as expansion alternates with contraction, is known as:

- (a) Shattering
 (b) Block separation
 (c) Granular disintegration
 (d) Exfoliation

127. Match the following:

Peak	Location
A. Saddle Peak	1. North Andaman
B. Mount Diavolo	2. South Andaman
C. Mount Thuiller	3. Middle Andaman
D. Mount Koyob	4. Great Nicobar

Select the correct answer using the code given below:

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

OCEANOGRAPHY

1. Which of the following processes are considered a part of water cycle?

- Evapo-transpiration
- Sublimation
- Snowmelt runoff to streams
- Groundwater discharge springs

Select the correct answer using the code given below:

- (a) 1, 3 and 4 only (c) 1 and 2 only
 (b) 3 and 4 only (d) 1, 2, 3 and 4

2. Consider the following oceanic features and their characteristics:

- Continental Shelf:** Active volcanoes and strong earthquake.
- Continental Slope:** Canyons and trenches.
- Deep-Sea Plain:** Flattest and smoothest regions.

Which of the above pairs is/are correctly matched?

- (a) 1 and 2 only (c) 2 and 3 only
 (b) 3 only (d) 1, 2 and 3