

GEOGRAPHY

1. Consider the following statements and select the correct answer using the code given below:
 1. A galaxy is a huge mass of stars, nebulae and inter-stellar material.
 2. Each galaxy comprises an average of 100 billion stars.
 3. Galaxies are the major building blocks of the universe.
 4. Galaxies may be regular or irregular in shape.

Code:

 - (a) 1, 2 and 3 are correct
 - (b) 2, 3 and 4 are correct
 - (c) 1, 3 and 4 are correct
 - (d) 1, 2, 3 and 4 are correct
2. Examine the following statements and select the correct answer using the code that follows:
 1. The shape of our galaxy is like a flat disc.
 2. The dimension of our galaxy is about a hundred thousand light years.
 3. The Sun is about 33,000 light years away from the centre of the Milky Way.
 4. The solar system is about 12 light years across.

Code:

 - (a) 1, 2 and 3 are correct
 - (b) 2, 3 and 4 are correct
 - (c) 1, 3 and 4 are correct
 - (d) 1,2,3 and 4 are correct
3. Examine the following statements and select the correct answer using the code given below:
 1. Black Holes are known as Neutron Stars.
 2. Black Holes are the smallest dwarfs.
 3. Black Holes have relatively lesser gravitational force.
 4. If the Earth were to collapse to the density of a white dwarf, it would have a diameter equivalent to the length of a football field.

Code:

 - (a) 1, 2 and 3 are correct
 - (b) 1, 2 and 4 are correct
 - (c) 2, 3 and 4 are correct
 - (d) 1, 2, 3 and 4 are correct
4. Examine the following statements and select the correct answer using the code given below:
 1. Photosphere is the brighter outer layer of the Sun.
 2. Photosphere consists of a zone of burning gases 300 km thick.
 3. The effective temperature on the outer side of the photosphere is more than 6000°C.
 4. Just above the photosphere is the chromosphere — a thin layer of burning gases.

Code:

 - (a) 1, 2 and 3 are correct
 - (b) 2, 3 and 4 are correct
 - (c) 1, 3 and 4 are correct
 - (d) 1, 2, 3 and 4 are correct
5. Examine the following statements and select the correct answer using the code given below:
 1. A dark patch on the surface of the Sun is known as a sunspot.
 2. Sunspots appear as dark areas because they are about 1500° C cooler than the surrounding chromospheres.

3. The individual sunspot may last from a few days to a few months.
4. The number of visible sunspots fluctuate in an 11-year cycle.

Code:

- (a) 1, 2 and 3 are correct
 - (b) 2, 3 and 4 are correct
 - (c) 1, 3 and 4 are correct
 - (d) 1, 2, 3 and 4 are correct
6. Which one of the following is not correct?
- (a) The meteoroids are termed as 'shooting stars'.
 - (b) Meteoroids become luminous when they enter the atmosphere.
 - (c) All meteoroids fall on Earth in the form of ash.
 - (d) Meteoroids travel in the space at great speed.
7. Examine the following statements and select the correct answer using the code given below:
1. The outer most layer of the Earth is known as crust.
 2. The Earth crust is above the Mohorovicic (Moho) discontinuity.
 3. Earth crust represents less than 1 per cent of the total volume of the Earth.

Code:

- (a) 1 and 2 are correct
 - (b) 2 and 3 are correct
 - (c) 1 and 3 are correct
 - (d) 1, 2 and 3 are correct
8. Consider the following statements and select the correct answer using the code given below:
1. The secondary waves are called transverse.
 2. The secondary waves are analogous to light waves and water ripples.
 3. The secondary waves can not travel through the liquid medium.

Code:

- (a) 1 and 2 are correct
 - (b) 2 and 3 are correct
 - (c) 1 and 3 are correct
 - (d) 1, 2 and 3 are correct
9. The maximum damage to life and property is done by the:
- (a) Surface waves
 - (b) Transverse waves
 - (c) Longitudinal waves
 - (d) Primary waves

10. Arrange the following in a sequential order from surface to the inner core of the Earth and select the correct answer using the code given below:

1. Asthenosphere
2. Mantle
3. Solid Core
4. Molten core

Code:

- (a) 1, 3, 2 and 4 are correct
 - (b) 1, 3, 2 and 4 are correct
 - (c) 1, 2, 4 and 3 are correct
 - (d) 1, 2, 3 and 4 are correct
11. The sea of Marmara joins the:
- (a) Black Sea with the Sea of Azov.
 - (b) Black Sea with the Aegean Sea.
 - (c) Mediterranean Sea with the Adriatic Sea.

(d) North Sea with the Baltic.

12. Consider the following statements and select the correct answer using the code given below:

1. The part of continent under marine water is known as continental shelf.
2. The slope of a continental shelf is less than 1 degree.
3. The continental shelf reaches a depth up to about 200 m.

Code:

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

13. Consider the following statements and select the correct answer using the code given below:

1. All the processes acting at or near the surface of the Earth are known as weathering.
2. Weathering is not effective in hard granite.
3. Frost action is an important form of physical weathering.
4. Frost action is limited to mid-latitudes and high altitudes.

Code:

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

14. Consider the following statements and select the correct answer using the code given below:

1. Sedimentary rocks are impervious.
2. The layers of sedimentary rocks may be horizontal or tilted.
3. Sedimentary rocks contain joints.
4. Sedimentary rocks contain fossils.

Code:

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

15. Match List I with List II and select the correct answer using the code given below:

Table I

Table II

(Original rock)

(Metamorphic rock)

A. Basalt

1. Diamond

B. Coal

2. Marble

C. Limestone

3. Slate

D. Shale

4. Schist

Codes:

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

16. Consider the following statements and select the correct answer using the code given below:

1. Coal is an organic rock.
2. The lignite quality of coal belongs to the Tertiary Period.

3. Peat is the first stage of coal formation.

Code:

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

17. Arrange the following in a sequential order from bigger to smaller in size and select the correct answer using the code given below:

1. Cobble 2. Granule 3. Pebble 4. Sand

Code:

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

18. Match List I with List II and select the correct answer using the code given below:

List I

List II

(Rock Type)

(Mode of Formation)

- | | |
|-------------|-----------------|
| A. Andesite | 1. Argillaceous |
| B. Gabbro | 2. Aeolian |
| C. Loess | 3. Plutonic |
| D. Shale | 4. Volcanic |

Codes:

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

19. Examine the following statements and select the correct answer using the code given below:

- 1. The orbit of Halley's Comet brings it close to Earth every 76 years.
- 2. It last visited in 1986.

Code:

- (a) Only 1 is correct
- (b) Only 2 is correct
- (c) Both 1 and 2 are correct
- (d) Neither 1 nor 2 is correct

20. Examine the following statements and select the correct answer using the code given below:

- 1. Sun is our nearest star.
- 2. Earth and Mercury are unique planets in the Solar System as they support life.

Code:

- (a) Only 1 is correct
- (b) Only 2 is correct
- (c) Both 1 and 2 are correct
- (d) Neither 1 nor 2 is correct

ANSWER KEYS

- 01 d 02 d 03 b 04 d 05 d 06 c 07 d 08 d 09 a 10 c
 11 b 12 d 13 b 14 b 15 c 16 d 17 a 18 b 19 c 20 a

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