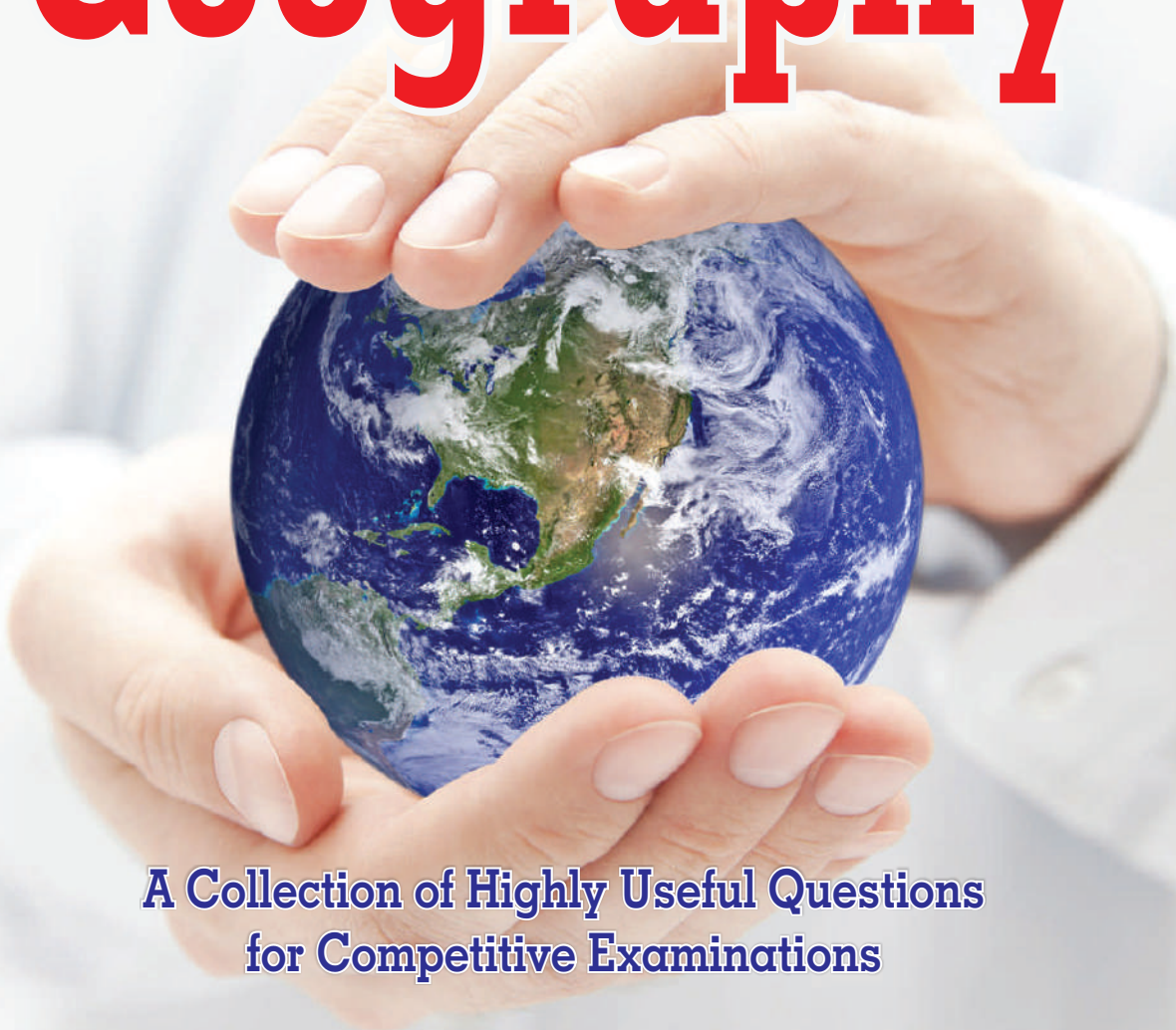


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# Objective Geography



**A Collection of Highly Useful Questions  
for Competitive Examinations**

R. Gupta's®

# Objective **GEOGRAPHY**

A Collection of Highly Useful Questions for  
Competitive & Entrance Exams

*By*

**RPH Editorial Board**



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# **OBJECTIVE GEOGRAPHY**

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# 1

## Solar Systems and General Geography

- Which of the following statements is/are correct with regard to lines of latitude?
  - They are concentric circles numbered from  $0^\circ$  to  $90^\circ$ .
  - They are circles on a globe which are parallel to the equator.Select the correct answer using the code given below:  
A. 1 only                      B. 2 only  
C. Both 1 and 2              D. Neither 1 nor 2
- Foucault experiment is proof of which one of the following?
  - Revolution of Earth
  - Rotation of Earth
  - Rotation of Moon
  - Revolution of Moon
- Which one of the following pairs is not correctly matched?

Month	Position of Sun
A. June	Midday Sun overhead at tropic of Cancer.
B. December	Midday Sun overhead at tropic of Capricorn.
C. March	Midday Sun overhead on Equator
D. September	Midday Sun overhead on Arctic Circle
- Which of the following statements is/are correct with regard to Milky way?
  - It is a spiral galaxy.
  - The solar system resides in one of its spiral arms.Select the correct answer using the code given below:  
A. 1 only                      B. 2 only  
C. Both 1 and 2              D. Neither 1 more
- Which one of the following is the time required for the earth to return to a given point in its orbit with reference to fixed stars called?
  - Lunar year                  B. Solar year
  - Tropical year                D. Sidereal year
- How much of a time period  $15^\circ$  of longitudes account for?
  - 4 Minutes                    B. 15 Minutes
  - 30 Minutes                  D. 60 Minutes
- The Sun is visible a little before the actual sunrise because of which one of the following?
  - Atmospheric reflection
  - Atmospheric dispersion
  - Atmospheric diffraction
  - Atmospheric refraction
- Assertion (A):** The tail of comet is always away from the Sun.  
**Reason (R):** The tail of comet is made up of gases and small ice particles.  
Select the correct answer using the codes given below:  
**Codes:**
  - Both A and R are true and R is the correct explanation of A
  - Both A and R are true but R is not the correct explanation of A
  - A is true but R is false
  - A is false but R is true
- Which of the following is called a '**red planet**'?
  - Earth                              B. Venus
  - Jupiter                            D. Mars
- Assertion (A):** Venus is the brightest object in the sky after the Sun.  
**Reason (R):** Venus is the second planet from the Sun in our solar system.

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**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
11. If there are four places on the same meridian 500km apart and the local time at one place is 12.00 noon. What will be the time at the three other places?  
A. 12.00 noon  
B. 1.00 pm  
C. 2.00 pm  
D. Different time at different places
12. Which one of the following figures represents the age of the earth?  
A. 4.6 million years  
B. 4.6 billion years  
C. 13.7 billion years  
D. 13.7 trillion years
13. The moon is showing its same face to the earth because:  
A. It is not rotating about its own axis  
B. Its rotation and revolution are opposite  
C. Its periods of rotation and revolution are the same  
D. Its rotation is faster than its revolution
14. The difference in the duration of day and night increases as one moves from:  
A. west to east  
B. east and west of the prime meridian  
C. poles to equator  
D. equator to poles
15. Which of the following planets does not belong to the group of terrestrial planets?  
A. Mercury                      B. Venus  
C. Uranus                        D. Earth
16. The pulsating universe theory says:  
A. The universe illuminates and darkness alternately between periods of billions of years  
B. The universe enlarges and shrinks alternately  
C. The universe expands and contracts alternately between periods of tens of billions of years  
D. All of the above
17. **Assertion (A):** Jupiter is known as a cold planet.  
**Reason (R):** Jupiter has temperature of  $-130^{\circ}\text{C}$ .  
A. Both A and R are true and R does not explain A  
B. Both A and R are true but R is the correct explanation of A  
C. A is true but R is false  
D. A is false but R is true
18. Which is the theory that explains the origin of universe from a primordial explosion which broke the condensed matter and scattered its fragments into space at enormous velocities?  
A. Big Bang theory  
B. Infinite time theory  
C. Steady state theory  
D. Oscillating universe theory
19. The study of universe on grand scale is called:  
A. cosmology                      B. astronomy  
C. exobiology                      D. astrology
20. Which of the following planets has been given the name of cruel planet in the Indian astrology?  
A. Mercury                        B. Saturn  
C. Neptune                        D. Jupiter
21. The sum total of potentially knowable objects is called:  
A. Universe                        B. Galaxy  
C. Earth                              D. Milkyway
22. The earth is in.....position from the sun in the solar system.  
A. 3rd                                B. 2nd  
C. 4th                                D. 5th
23. Which of the following statements correctly explains Andromeda?  
A. It is the upper surface of the sun which emits white light  
B. It is the satellite revolving round the planets of the sun



- C. It is the nearest galaxy to our earth  
D. It is the gravitational force by which the sun attracts the planets towards its centre
24. Which of the following planets takes 164 years in making one revolution around the sun?  
A. Neptune                      B. Mars  
C. Saturn                         D. Uranus
25. The sun completes one revolution around the centre of the milky way in.....million years.  
A. 250                              B. 84  
C. 110                              D. 320
26. The term territorial water means:  
A. the water found within the country in form of rivers and lakes  
B. the water secured from other countries  
C. the water which is supplied to other countries  
D. water of the sea located close to the coast of a country
27. More than half of the world's population lives in latitudes.  
A. 0° – 20°N                      B. 0° – 20°S  
C. 20°N – 40°N                  D. 40° – 60°N
28. Which of the following planets have highest density?  
A. Earth                            B. Mars  
C. Mercury                        D. Venus
29. Which of the following pair of factor is responsible for a lag of 52 minutes in two direct tides on the earth's ocean surface?  
1. Earth's rotation  
2. Earth's revolution  
3. Moon's rotation  
4. Moon's revolution  
**Code:**  
A. 1 and 2                        B. 2 and 3  
C. 3 and 4                        D. 1 and 4
30. Which of the following statement regarding earth is correct?  
1. The earth is satellite in the solar system.  
2. The earth is an asteroid in the solar system.
3. The earth is the 3rd largest body in the solar system.  
4. The earth is a planet in the process of being a satellite.  
A. 1 and 2 are correct  
B. 2 and 3 are correct  
C. 3 and 4 are correct  
D. None are correct
31. An ancient star that has collapsed matter so dense that it creates gravitational force so powerful that even light also does not escape. It is called:  
A. Black hole  
B. QSO  
C. Neutron Star  
D. All the above
32. If sun dies it will be transformed into a:  
A. Quasar  
B. White dwarf  
C. Black dwarf  
D. All of the above
33. The sun contains over.....of the total mass of the solar system:  
A. 2%                                B. 82.5%  
C. 98%                              D. 99.8%
34. **Assertion (A):** The earth is also known as watery planet.  
**Reason (R):** The earth is the only planet of the solar system which contains water in abundance.  
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 correct explanation of A  
C. A is true but R is false  
D. A is false but R is true
35. The most important constituent of the sun's mass is:  
1. Silicon                            2. Iron  
3. Hydrogen                        4. Helium  
A. 1 and 2                        B. 2 and 3  
C. 3 and 4                        D. 1, 2, 3 and 4
36. All the planets revolve around the sun in an elliptical orbit in the.....direction.  
A. variable                        B. clockwise  
C. anticlockwise                D. same



- (b) Proto Planet 2. Von wizensacker  
 (c) Planetesimal Theory 3. Chamberlin  
 (d) Binary Star theory 4. Russel and Littleton

**Codes:**

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

51. Sidereal means:  
 A. Pertaining or referring to the stars.  
 B. Pertaining or referring to the sun  
 C. Pertaining or referring to the moon.  
 D. Pertaining or referring to cosmic bodies.
52. In Solar System which two planets are on either side of earth?  
 A. Mars and Venus  
 B. Saturn and Jupiter  
 C. Mars and Saturn  
 D. None of these
53. Which planet if it was to be brought on the ocean will float?  
 A. Jupiter B. Uranus  
 C. Mars D. Saturn
54. Which planet has the largest equatorial radius?  
 A. Saturn B. Jupiter  
 C. Mars D. Earth
55. Latitude of a place is determined by:  
 A. Gnomon.  
 B. clinometer.  
 C. establishing the meridian of a place.  
 D. dividing the circumference by angular distance.
56. The location of place A is at 60°E longitude and 30°S latitude while the location of B is 60°E longitude and 45°N latitude. Time at B will be:  
 A. half-an-hour behind A  
 B. half-an-hour ahead of A  
 C. half-an-hour ahead or behind that of A  
 D. the same as that of A
57. Latitudes refers to:  
 A. angular distance of a point on the earth's surface along a Meridian North or South of equator.  
 B. angular distance of a Meridian in relation to sun's rays  
 C. angular distance of any elliptical plane in relation to the tilt of the earth  
 D. angular distance of a plane in-relation to angle of sun's rays
58. The meaning of longitude is:  
 A. the angular distance of a line around central Meridian  
 B. the angular distance of a point on the earth's surface east or west of central Meridian.  
 C. the linear distance from the central part of the earth measured in angles.  
 D. the curvilinear distance measured from any point in relation to a central point.
59. The interval of 1° latitude measures:  
 A. 211 kilometres B. 111 km  
 C. 91 km D. 241 km
60. There is a continuous day of six months and night of six months beyond.  
 A. 66  $\frac{1}{2}$ ° Lat. B. 90° Lat.  
 C. 75° Lat D. 45° Lat.
61. The linear distance of a degree of latitude on an average is:  
 A. 79 miles B. 69 miles  
 C. 70.6 miles D. 72 miles
62. Longitudes unlike latitudes are not used for measuring distance because:  
 A. longitudes are vertical  
 B. all the longitudes coverage at poles.  
 C. The length of degree of longitude outside the tropics vary widely.  
 D. Longitudes are Horizontal
63. Every.....degree we go eastward local time is.....by one hour.  
 A. 15°, advanced B. 15°, retarded  
 C. 10°, advanced D. 10°, retarded

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64. Which of the following statement is true:
- The earth rotates  $1^\circ$  in 4 minutes.
  - Places east of Greenwich see the sun earlier
  - Longitudes keep changing with international agreements
  - At  $75^\circ$  latitude the longitudes are 18 miles.
- A. 1, 2 and 3      B. 1, 2 and 4  
C. 1, 3 and 4      D. 2, 3 and 4
65. A place located  $74^\circ$ W of Greenwich will have time:
- 5 hrs. 42 minutes advanced
  - 5 hrs. 42 minutes behind
  - 4 hrs 56 minutes behind
  - 4 hrs 56 minutes advanced
66. In which country, people will have to adjust their watches maximum times to conform to the time zones.
- Russia
  - Canada
  - USA
  - Chile
67. The international date line which is at..... is.....hrs ahead of GMT.
- $90^\circ$ W, 12.
  - $90^\circ$ E, 12.
  - $180^\circ$ W, 24
  - $180^\circ$ E, 12
68. The earth revolves around the sun in an elliptical orbit at a speed of .....per second.
- 16.5 km/s
  - 22.5 km/s
  - 18.5 miles or 29.8 km/s
  - 29.5 km/s
69. A leap year consists of:
- 364 days
  - 365 days
  - 366 days
  - 365 days and an extra night
70. The earth takes about.....to complete one rotation.
- 23 hours
  - 24 hours
  - 24 hours. 6 minutes
  - 23 hours 54 minutes
71. Match the following:
- (a) Summer solstice 1. June 21  
(b) Winter solstice 2. December 22  
(c) Vernal equinox 3. March 21  
(d) Autumnal equinox 4. September 23

**Codes:**

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

72. Match the following:

- Tropic of cancer (a)  $23\frac{1}{2}^\circ$ N
- Tropic of Capricorn (b)  $23^\circ$ S
- Prime Meridian (c)  $0^\circ$  Longitude

**Codes.**

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

73. The first person to say that the earth is sphere was:
- Archimedes
  - Copernicus
  - Galileo
  - Eratosthenes
74. The lengthiest shadow will be found in:
- Vostok
  - Archorage
  - Spitsbergen
  - Teradel feugo
75. The asteroidal belt lies between:
- Earth and Mars
  - Jupiter and Mars
  - Mercury and Uranus
  - Neptune and Venus
76. When the moon is nearest to the earth, it is called to be in:
- Perigee
  - Apogee
  - Penumbra
  - Umbra
77. The ocean of tranquillity is located on:
- Mercury
  - Earth
  - Moon
  - Jupiter
78. Which of the following statment is/are correct?
- We see only one face of the moon.
  - The moon takes the same time in completing one revolution around the earth and one rotation on its axis
  - The gravitational force on the moon is 6 times less than that of the earth
  - The day and night temperatures vary widely on the moon.

- A. 1 and 2 are correct  
 B. 1, 2 and 4 are correct  
 C. 2, 3 and 4 are correct  
 D. All are correct
79. Which planet experiences a day-almost— (1.00 and 1.03 day) of the same duration as that of the earth:  
 A. Mercury                      B. Saturn  
 C. Mars                            D. Uranus
80. A peninsula is:  
 A. a piece of land surrounded by water on three sides.  
 B. a narrow piece of land.  
 C. a piece of land elongated and surrounded by water.  
 D. a triangular piece of land surrounded by water.
81. Which of the following is a difference between a gulf and a bay?  
 A. A gulf occupies the mouth of a river a bay occupies the mouth of many rivers  
 B. A gulf is of large size while bay is of small size  
 C. A gulf is a lowland region while a bay is a highland  
 D. Bay and gulf are both part of sea that extended into the land but a gulf has a narrow entrance that a bay.
82. A narrow creek of land that connects two larger land masses is called:  
 A. Peninsula                      B. Isthmus  
 C. Strait                            D. Cape
83. The name given to a widened river..... mouth at the point of a river enters the sea is:  
 A. Estuary                          B. Delta  
 C. Gulf                              D. Bay
84. ....is a triangular landmass that forms at its mouth when a river splits into several branches just before entering the sea.  
 A. Gulf                                B. Delta  
 C. Isthmus                            D. Strait
85. The name “cross roads of the pacific” is given to:  
 A. Barmuda                          B. Fiji  
 C. Hawaii                            D. Elice
86. Rapidly rotating stars emitting intense radio waves are called:  
 A. Neutron stars  
 B. Pulsars  
 C. Quasuars  
 D. All of the above
87. Cygnus X – 1 is a:  
 A. Binary star of a black hole.  
 B. Black hole  
 C. X-RAY source  
 D. Supernova.
88. Which of the following statements can be taken as evidence to show that the Earth is spherical?  
 A. The rotation of the earth from east to west.  
 B. Earth’s various parts have night or day.  
 C. The horizon of the earth is seen to be curved when see from satellite.  
 D. The revolution of the earth around the sun.
89. Solar eclipse takes place when:  
 A. The earth comes between the sun and the moon.  
 B. The moon passes between the sun and the earth  
 C. The sun comes between the earth and the moon.  
 D. Planets of the solar system lie on the same plane.
90. Which latitude will have longest nights in the southern Hemisphere at the summer solstice?  
 A. 66°S                                B. 45°S  
 C. 66°N                                D.  $23\frac{1}{2}$ °N
91. The reclaimed portions of the sea in Netherlands are called:  
 A. Ria                                  B. Polders  
 C. Young pits                          D. Sounds

10 ★ Objective Geography

92. Match the following:

- |                |  |
|----------------|--|
| (a) Isoplesths | 1. Similar value of particular, phenomenon |
| (b) Isonomal   | 2. Continuous value on maps.               |
| (c) Isochrones | 3. Equal travel time from a common centre. |

**Codes:**

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

93. Match the following:

- |                |                               |
|----------------|-------------------------------|
| (a) Isohypes   | 1. Equal flowing date.        |
| (b) Isophene   | 2. Equal Seismic activity.    |
| (c) Isoseismal | 3. Equal elevation above sea. |

**Codes:**

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

94. The points in the heavens that is directly above the observer is:

- |              |            |
|--------------|------------|
| A. Apogee    | B. Perigee |
| C. Pericline | D. Zenith  |

95. An imaginary belt of 12 constellations or group of star is called:

- |                  |                   |
|------------------|-------------------|
| A. Pulsar        | B. Zodiac         |
| C. Stellar group | D. Zodiacal light |

96. When the sun is shining vertically over the tropic of cancer.

- Nights are equal to 24 hours at the South Pole.
- Days and nights are of 16 hours duration at North Pole.
- Days and nights are equal in northern and southern Hemisphere.
- Nights are longer than days in the northern Hemisphere.

97. Which of the following is not connected with proof of the earth shape?

- Circumnavigation
  - Rotation
  - The shadow of the earth on moon during eclips
  - Satellite Photographs
- |               |                |
|---------------|----------------|
| A. 1 and 2    | B. 2 and 3     |
| C. 1, 2 and 3 | D. All of them |

98. Lunar eclipse means:

- The average angle made by a line drawn from the moon to the earth
- The earth comes between the sun and the moon and the centres of all the three come on the same straight line
- Direction or path of the moon.
- The moon comes between the sun and the earth and it causes shadows of the moon to fall on the earth.

99. Insular means an area:

- surrounded by land on all sides.
- surrounded by water on all sides
- slightly elevated from the adjoining region.
- drained by rivers from all sides.

100. Doldrums are:

- a low pressure belt around the equator where the winds are very light and sea very calm,
- areas of calm seas.
- trade wind belts.
- areas where the sea is very rough around equator.

101. Horse latitudes are:

- tones where fodder for horses are grown
- latitudinal zones where under some climatic conditions horses originated.
- subtropical high pressure belts
- latitudinal zones intermediate between equator and tropics.

102. The region lying between tropics of cancer and capricorn is called:

- |                    |                     |
|--------------------|---------------------|
| A. Horse Latitudes | B. Subtropical zone |
| C. Torrid zone     | D. All of the above |

103. An oasis is:

- the name of an environmental organisation.
- farmlands of Australia

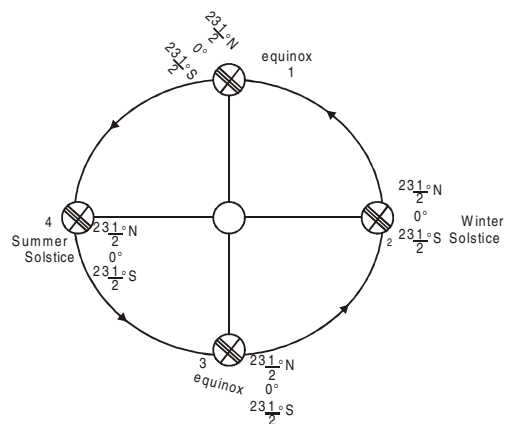
- C. another name of depression in desert.  
D. a small area of greenery and water in desert
104. Which explorer's expedition conclusively proved that the earth is spherical in shape?  
A. Christopher Columbus  
B. Vasco da Gama  
C. Captain Tasman  
D. Megellan
105. The height of land is expressed in:  
A. feet or metres above sea level  
B. metres  
C. spot heights  
D. kilometres
106. The period of cycle of solar activity (appearance and disappearance) of sun spots is about..... years.  
A. 5  
B. 11  
C. 8  
D. 17
107. The three main land groups in the Pacific from east to west are:  
A. Melanesia, Polynesia and Micronesia.  
B. Micronesia, Polynesia and Melanesia.  
C. Melanesia, Micronesia and Polynesia.  
D. Polynesia, Micronesia and Melanesia.
108. The name for "Lands end" that is the tip of the last land that projects into the sea is:  
A. Embayment  
B. Head land  
C. Cape  
D. Peninsula
109. Had there been equator in place of tropic of cancer in India, the change caused in the climate would be :  
A. Low temperature and high rainfall.  
B. High temperature and high rainfall.  
C. High temperature and low rainfall.  
D. Low temperature and low rainfall.
110. Which of the following is the largest star?  
A. Sun  
B. Silion Aurigae  
C. Trumpler  
D. Betelgeuse
111. The tropics extend from north to south for.....degrees.  
A. 11.75  
B. 23.5  
C. 47  
D. 30
112. The basic difference between a lake and a tank is:  
A. lake and tank are both land enclosed water bodies but tank is man made.  
B. a tank is big while lake is small.  
C. a lake is big while tank is small  
D. a lake can be in oceans as well as land, tank is only on land
113. The southern limit of India (mainland) is:  
A.  $6^{\circ}4'$  N Lat.  
B.  $7^{\circ}4'$  N Lat.  
C.  $8^{\circ}4'$  N Lat.  
D. None of these
114. The shortest distance between two places on the globe lies along.  
A.  $45^{\circ}$ N Lat.  
B.  $45^{\circ}$ S Lat.  
C. The prime meridian  
D. The equator
115. Consider the following diagram and answer the question.



the figure indicates:

- A. Lunar eclipse  
B. Solar eclipse  
C. Full Moon  
D. Tidal bore

116. Which of the following options correctly represents the numbers 1, 2, 3, and 4 respectively in the following figure of solstices and equinoxes.



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- A. March 21, December 22, September 23, June 21  
B. December 22, September 23, June, 21, March 21,  
C. September 23, June 21, March 21, December 22.  
D. June 21, March 21, December 22, September 23
117. The latitude of a place situated on the equator is:  
A.  $23 \frac{1}{2}^{\circ}$                       B.  $0^{\circ}$   
C.  $66 \frac{1}{2}^{\circ}$                       D.  $33 \frac{1}{2}^{\circ}$
118. **Assertion (A):** Days and nights all over the globe except the equator and the poles are of varying lengths at different times of the year.  
**Reason (R):** The earth's axis is oblique and it points in the same direction throughout the year.  
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
119. The earth rotates.....in 24 hours.  
A.  $180^{\circ}$                       B.  $90^{\circ}$   
C.  $60^{\circ}$                       D.  $360^{\circ}$
120. The Indian standard time is ahead of G.M.T. by:  
A. 1 hour                      B. 3 hours  
C.  $4 \frac{1}{2}$  hours                      D.  $5 \frac{1}{2}$  hours
121. When and where was 180th meridian designated as international Date Line by international meridian conference.  
A. 1884 Washington D.C.  
B. 1804 Tokyo  
C. 1894 London.  
D. 1824 Dumraon
122. **Assertion (A):** The method of determining latitude of a place with the help of pole star cannot be employed in the southern hemisphere.  
**Reason (R):** There is no star equivalent to pole star in the southern hemisphere.  
A. Both A and R are true and R is the the correct explanation of A  
B. Both A and R are true but R is not correct explanation of A  
C. A is true but R is false  
D. A is false but R is true
123. Halo' around the sun or moon are produced due to:  
A. Refraction of light by ice crystals  
B. Refraction of light by stone  
C. Reflection of Light by stone  
D. Reflection of Light by Ice crystals
124. **Assertion (A):** It is inferred that life was originated in the ocean.  
**Reason (R):** Simpler and lower animals are aquatic and the cells and body fluids of all animals contain salts  
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
125. The primitive atmosphere of the earth was devoid of free oxygen but rich in:  
A. Nitrogen and ozone.  
B. Carbon dioxide and nitrogen  
C. Amonia, methane and hydrogen  
D. Methane and carbon dioxide.
126. **Assertion (A):** Elements like hydrogen, oxygen, carbon and nitrogen could not exist in free state on primitive earth  
**Reason (R):** The temperature of primitive earth was estimated to be  $5000-6000^{\circ}\text{C}$ .  
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



- 127. Assertion (A):** The organic compounds that arose on primitive earth were not subjected to degradation.  
**Reason (R):** The Atmosphere of primitive earth was without free-oxygen (non oxygenic)
- 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
- 128.** If stars are seen to rise perpendicular to the horizon by an observer, he is located on:  
 A. North Pole      B. South Pole  
 C. Tropic of Cancer      D. Equator
- 129.** Consider the following astral bodies:  
 1. Sirius  
 2. Venus  
 3. Mars  
 Correct sequences in decreasing order of their brightness is:  
 A. 2, 3 and 1      B. 1, 2 and 3  
 C. 3, 2 and 1      D. 2, 1 and 3
- 130.** An aeroplane takes off from 30°N latitude 50° East long and lands at the opposite end of the earth where does it land?  
 A. 30° North Lat. 50° West long.  
 B. 30° South Lat. 50° West long.  
 C. 50° North Lat. 30° West long.  
 D. 30° South Lat. 130° West long.
- 131.** The length of its day and the tilt of its axis are almost identical to those of the earth. This is true.  
 A. Neptune      B. Saturn  
 C. Mars      D. None of these
- 132.** The shortest air route from perth to London is:  
 A. Perth — Bombay — Rome — London.  
 B. Perth, Aden, Paris, London.  
 C. Perth, Ankara, Paris, London.  
 D. Perth — Mombasa — Rome — London
- 133.** When it is noon along 82°30'E longitude along what degree of longitude it will be 6.30 am?  
 A. along 165°E  
 B. along 67°30'W  
 C. 0°E or W
- 134.** The time taken by the sun to revolve around the centre of our galaxy is:  
 A. 500 million years.  
 B. 250 million years.  
 C. 100 million years.  
 D. 25 million years.
- 135.** The colour of a star is an indication of its:  
 A. luminosity  
 B. distance from the sun  
 C. temperature  
 D. distance from the earth
- 136.** Comet shoemaker-levy, hit the planet.  
 A. Jupiter      B. Mars  
 C. Saturn      D. None of these
- 137.** A meteor is:  
 A. a rapidly moving star  
 B. a piece of matter which has entered the earth's atmosphere from outer space  
 C. a slowly moving star  
 D. a piece of matter which has entered the earth's atmosphere from inner space
- 138.** The standard time of the following countries is ahead or behind Greenwich mean time depending on whether they are east and west of the longitude passing through Greenwich:  
 1. Cuba      2. Greece  
 3. Iraq      4. Costarica  
 5. Japan  
 Which one of the following sequential order gives the correct arrangement of the countries according to their standard time from a head to behind G.M.T.?  
 A. 5, 3, 2, 1, 4      B. 2, 4, 1, 3, 5  
 C. 4, 1, 3, 2, 5      D. 3, 5, 4, 1, 2

14 ★ *Objective Geography*

139. Consider the following statements. A person in a spaceship located halfway between the earth and the sun will notice that the:
1. Sky is jet black.
  2. Stars do not twinkle.
  3. Temperature outside the spaceship is much higher than that on the surface of the earth.
- Of these statements
- A. 3 alone is correct
  - B. 1 and 2 are correct
  - C. 1 and 3 are correct
  - D. 1, 2 and 3 are correct
140. Diamond ring is a phenomenon observed:
- A. at the start of a total solar eclipse.
  - B. at the end of a total solar eclipse.
  - C. only in the central regions of the totality trail.
  - D. only along the peripheral regions of the totality trail.
141. Which one of the following longitudes along with the prime meridian forms a great circle on the globe?
- A. 180°
  - B. 90°E
  - C. 0°
  - D. 90°W
142. Captain of a ship moving westward records the local time of the 10.00 hrs. Monday at 90°W. If the speed of the ship is the same as the speed of the rotation of the earth, which of the following local time and day would be found by the captain at international date line.
- A. 04.00 Monday
  - B. 10.00 Monday
  - C. 10.00 Tuesday
  - D. 16.00 Tuesday
143. Consider the following statements and select the correct answer from the codes given below:
1. The northern end of the earth's axis is called north pole.
  2. 45 parallel is half of the length of the equator
  3. There is parallelism of the earth axis.
  4. The earth's speed of revolution is faster in aphelion position.
- A. 1 and 3
  - B. 1 and 2
  - C. 3 and 4
  - D. 1 and 2
144. Which one of the following may have alien life because of a very conducive environment to life ?
- A. Europa—The Jupiter's Moon.
  - B. Moon—The earth's Moon.
  - C. Jupiter
  - D. Mars
145. On which planet was the space craft "Magellan" sent?
- A. Saturn
  - B. Mars
  - C. Venus
  - D. Jupiter
146. What is Hale-Bopp?
- A. A toy
  - B. Cartoon character
  - C. Comet
  - D. International company
147. **Assertion (A):** The atmosphere receives most of the heat only in directly from the sun and directly from the earth's surface.
- Reason (R):** The conversion from short-wave terrestrial energy takes place at the earth's surface.
- 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
148. The shortest distance between two places on the globe is along:
- A. 45°N latitude
  - B. 45°S latitude
  - C. Prime meridian
  - D. International dateline
149. Which is a celestial phenomenon?
- A. Bone hole
  - B. Black hole
  - C. Rainbow
  - D. Comet
150. At the time of the summer solstice in the northern hemisphere the length of the day will be twelve hours at the:
- A. Tropic of cancer
  - B. Tropic of capricorn
  - C. Arctic circle
  - D. Equator

151. The planet nearest to the earth is:  
A. Jupiter                      B. Mars  
C. Mercury                      D. Venus
152. At the winter solstice the noon altitude of the sun at the tropic of cancer is:  
A.  $23.5^\circ$                       B.  $43.0^\circ$   
C.  $47.0^\circ$                       D.  $66.5^\circ$
153. The limit beyond which stars suffer internal collapse is called:  
A. Chandrashekhar Limit  
B. Raman Effect  
C. Aurora Borealis  
D. Quasan Zone
154. When there is noon at I.S.T. Meridian people on another place of the earth are taking their 6 O' clock morning tea. The longitude of place is?  
A.  $17^\circ 80'$  E                      B.  $7^\circ 30'$  W  
C.  $172^\circ 30'$  W                      D.  $90^\circ$  W
155. Match List I with List II and select the correct answer by using the codes given below the lists:
- | <i>List I</i><br>(Special<br>Character)            | <i>List II</i><br>(Name of<br>of the planet) |
|--|--|
| (a) Smallest planet of the solar system            | 1. Mercury                                   |
| (b) Largest planet of the solar system             | 2. Venus                                     |
| (c) Planet second from the sun in the solar system | 3. Jupiter                                   |
| (d) Planet nearest to the Sun.                     | 4. Murcury<br>5. Saturn                      |
- Codes:**
- | (a)  | (b) | (c) | (d) |
|------|-----|-----|-----|
| A. 2 | 3   | 5   | 1   |
| B. 3 | 5   | 1   | 2   |
| C. 4 | 1   | 2   | 3   |
| D. 4 | 3   | 2   | 1   |
156. One astronomical unit is the average distance between:  
A. Earth and the Sun  
B. Earth and the Moon  
C. Jupiter and the Sun  
D. Mars and the Sun.
157. Consider the following statements regarding asteroids:  
1. Asteroids are rocky debris of varying sites orbiting the Sun.  
2. Most of the asteroids are small but some have diameter as large as 1000 k.m.  
3. The orbit of steroids lies between the orbits of Jupiter and Saturn.  
Of these statements:  
A. 1, 2 and 3 are correct  
B. 2 and 3 are correct  
C. 1 and 2 are correct  
D. 1 and 3 are correct
158. About 50% of the world population is concentrated between the latitudes of  
A.  $20^\circ$ S and  $40^\circ$ S    B.  $40^\circ$ N and  $60^\circ$ N  
C.  $5^\circ$ N and  $20^\circ$ N    D.  $20^\circ$ N and  $40^\circ$ N
159. Which one of the following is the most important reason for the establishment of the Vikram Sarabhai Space Centre, at Thumba?  
A. The sea is near to the place in the east west and south direction  
B. It is a place near to a city in India, which is nearest to the geographic equator.  
C. It is situated on the geomagnetic equator.  
D. Outer space near Thumba exhibits queer atmospheric phenomena.
160. Along which one of the following meridians did India experience the first-light of the sunrise of the new millennium:  
A.  $2^\circ 30'$  W                      B.  $82^\circ 30'$  E  
C.  $92^\circ 30'$  W                      D.  $92^\circ 30'$  W
161. What is the difference between Indian Standard time and Greenwich standard time?  
A. – 4 hours and 30 minutes  
B. – 5 hours  
C. + 5 hours and 30 minutes  
D. + 6 hours and 30 minutes

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162. Indian standard time is the local time of  $82 \frac{1}{2}^{\circ}\text{E}$  which passes through.
- A. Allahabad      B. Delhi  
C. Guntur      D. Patna
163. Which one of the following places have their standard time that are the same as G.M.T?
1. Accra      2. Dublin  
3. Madrid      4. bisbon
- Choose the correct answer from the codes given below:
- A. 1, 2 and 3      B. 1, 3 and 4  
C. 1, 2 and 4      D. 2, 3 and 4
164. Which one of the following is not as astronomical object?
- A. Pulsar      B. Brittle Star  
C. Blackhole      D. Quasar
165. The North Pole is always in the light:
- A. from September 23 to March 21  
B. from March 21 to September 23  
C. from June 21 to December 22  
D. None of these
166. The solar eclipse achieves totality only in limited geographical regions because:
- A. the size of the shadow of the moon on the earth is small as compared to the cross section of the earth.  
B. the earth is not smooth flat surface, but has elevations and depressions  
C. the trajectories of the earth around the sun and the moon around the earth are not perfect circles.  
D. sun rays can reach most of the Peripheral regions of shadow of the moon due to atmospheric refraction
167. The axis of rotation of the earth is tilted by  $23.5^{\circ}$  to the plane of revolution around the Sun. The latitude of Mumbai is less than  $23.5^{\circ}$  whereas the latitude of Delhi is more than  $23.5^{\circ}$ . Which one of the following statements in this regard is correct.
- A. The Sun can come overhead at both these places.  
B. The Sun will never come over head at either of these places.  
C. At Mumbai the Sun can come overhead, but it will never do so at Delhi  
D. At Delhi the sun can come overhead but it will never do so at Mumbai
168. Indian Standard Meridian passes through the states of U.P., Chhattisgarh:
- A. A.P. and Karnataka.  
B. A.P. and Tamil Nadu  
C. Karnataka and Tamil Nadu  
D. Odisha and A.P.
169. Tropic of cancer passes through the states of Gujarat, M.P., Chhattisgarh:
- A. Jharkhand, West Bengal, Tripura and Mizoram  
B. Bihar, Tamil Nadu, Sikkim, A.P.  
C. A.P., Karnataka, Kerala, Bihar  
D. W.B., Bihar, Jharkhand, Assam
170. How many times the international date line deviates from  $180^{\circ}$  longitude:
- A. 4      B. 6  
C. 8      D. 10
171. Which of the following is the characteristic property of magnetic north pole?
- A. static  
B. shifting fast  
C. shifting slowly  
D. moving at intervals
172. The longitude determining Indian Standard time passes through
- A. Ranchi      B. Delhi  
C. Chennai      D. Kolkata
173. Which of the following planets has the maximum number of satellites?
- A. Venus      B. Jupiter  
C. Saturn      D. Uranus
174. Sun rises at Kolkata ( $80^{\circ}35'$ ) at 6.15 am. What will be the time of sunrise at Mumbai ( $72^{\circ}50'$ ):
- A. 7.00 a.m.      B. 6.46 a.m.  
C. 6.30 a.m.      D. 6.25 a.m.
175. Which of the following statements is not true about "Doldrum"?

- A. It is found across all longitudes  
 B. It is located at the equator  
 C. It is a zone of feeble westerly winds  
 D. It is a high pressure belt
176. Match List I with List II and select the correct answer using the codes given below the lists:
- | <i>List I</i><br>(Satellite) | <i>List II</i><br>(Related Planet) |
|------------------------------|------------------------------------|
| (a) Ariel                    | 1. Saturn                          |
| (b) Ganymede                 | 2. Jupiter                         |
| (c) Phobos                   | 3. Mars                            |
| (d) Titan                    | 4. Uranus                          |
- Codes:**
- | (a)  | (b) | (c) | (d) |
|------|-----|-----|-----|
| A. 1 | 2   | 3   | 4   |
| B. 2 | 3   | 4   | 1   |
| C. 3 | 1   | 2   | 4   |
| D. 4 | 2   | 3   | 1   |
177. Study the following statements regarding 'summer solstice' and select the correct answer from the code given below:
1. The sun is on the cancer.
  2. The sun is on the capricorn.
  3. The day is longest and night is shortest in the northern hemisphere.
  4. The day is longest and night is shortest in the southern hemisphere.
- Codes:**
- A. 1 and 2 are correct
  - B. 2 and 4 are correct
  - C. 1 and 3 are correct
  - D. 2 and 3 are correct
178. A planet's farthest point in its orbit from the sun is known as:
- A. Apogee
  - B. Perigee
  - C. Aphelion
  - D. Perihelion
179. **Assertion (A):** Directions on the earth are entirely arbitrary.  
**Reason (R):** A spherical surface has no edges, beginning or end.
- 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
180. **Assertion (A):** All meridians are great circles.  
**Reason (R):** The great circles divide the earth sphere into two equal parts.
- 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
181. Comets are luminous celestial bodies moving round the:
- A. Jupiter
  - B. Earth
  - C. Sun
  - D. Moon
182. Doldrums are located between:
- A. 10°N to 15°N
  - B. 5°S to 10°S
  - C. 10°S to 15°S
  - D. 5°N to 5°S
183. The latitude of a place expresses its angular position relative to the place of
- A. axis of the earth
  - B. equator
  - C. north pole
  - D. south pole
184. Coriolis Force is occasioned by:
- A. Pressure differences
  - B. Temperature differences
  - C. Relief obstructions
  - D. Rotation of the earth
185. The planets between Sun and asteroids are:
- A. Mercury, Earth, Jupiter and Saturn
  - B. Mercury, Venus, Jupiter and Saturn
  - C. Mercury, Venus, Earth, and Mars
  - D. Mercury, Earth, Venus and Jupiter
186. "Datum" Line denotes.
- A. The boundary between India and China.
  - B. An imaginary line which passes through zero degree meridian.
  - C. An imaginary horizontal line from where heights and depths are measured
  - D. The line across which dates change.

18 ★ Objective Geography

187. Consider:

**Assertion (A):** There is no atmosphere on moon.

**Reason (R):** Only one part of the moon can be seen from the earth.

Select the correct answer from the code given 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

188. Consider:

**Assertion (A):** Hot deserts are situated on the western margins of the continents.

**Reason (R):** Rain bearing winds in horse latitudes change their direction according to season.

Select the correct answer from the code given 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

189. Equinox is a state in which the duration of day and night is equal. It falls on:

- A. 10th March and 13th September
- B. 21st March and 23rd September
- C. 25th March and 31st September
- D. None of these

190. Match the followings:

<i>List I</i>	<i>List II</i>
(a) Doldrums	1. 5°N to 5°S
(b) Horse Latitudes	2. 30°N to 30° S
(c) Torrid Zone	3. 40° N and 50° S
(d) Roaring Forties	4. 23½° N and 23½° S

**Codes**

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

191. The stars whose brightness suddenly increases ten to twenty magnitudes or more and then fades into normal brightness are called:

- A. Explosion stars
- B. Supernova
- C. Nova
- D. only B and C

192. Which of the following planets takes least time to complete one revolution around the sun?

- A. Mercury
- B. Earth
- C. Mars
- D. Venus

193. The stars which show varying degrees of luminosity are called:

- A. Double Stars
- B. Binary Stars
- C. Luminous Stars
- D. Cepheid Stars

194. **Assertion (A):** The equatorial section of the sun takes 25 days and the polar 30 days to make one rotation about its axis.

**Reason (R):** All parts of the sun do not rotate with the same speed because of gaseous nature.

- 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

195. Which one of the following theories is associated with the monistic concept?

- A. Binary Hypothesis
- B. Nebular Hypothesis
- C. Planetesimal Hypothesis
- D. Tidal Hypothesis

196. The two planets in the solar system which rotate on its axis from east to west are:

- A. Saturn, Mercury
- B. Mercury, Jupiter
- C. Saturn, Mars
- D. Venus, Uranus

197. Which star has the largest percentage in the universe?

- A. Binary Stars
- B. Single Stars
- C. Multiple Stars
- D. Cepheid stars

198. Which of the following planets was worshipped as the most beautiful goddess by the people of Greece in the ancient times?  
 A. Venus                      B. Mars  
 C. Saturn                      D. Jupiter
199. What form does the milky way Galaxy has?  
 1. Spiral                      2. Elliptical  
 3. Irregular                      4. Crab  
 A. 1 and 2                      B. 2 and 3  
 C. 3 and 4                      D. 2 and 4
200. Galaxies are the best described as:  
 A. congregation of dust particles and stars that are held together by force of gravity  
 B. congregation of constellations rotating around the nucleus  
 C. congregation of primordial dust particles  
 D. congregation of stars that are held by molecular attraction of the particles

<b>ANSWER</b>
---------------

1	2	3	4	5	6	7	8	9	10
C	B	D	C	D	D	D	C	D	B
11	12	13	14	15	16	17	18	19	20
A	B	C	D	C	C	B	A	D	B
21	22	23	24	25	26	27	28	29	30
A	A	C	A	A	D	C	A	D	D
31	32	33	34	35	36	37	38	39	40
A	C	D	A	C	C	B	B	C	C
41	42	43	44	45	46	47	48	49	50
B	A	D	C	A	A	C	A	B	A
51	52	53	54	55	56	57	58	59	60
A	A	D	B	A	D	A	B	B	A
61	62	63	64	65	66	67	68	69	70
B	C	A	B	C	A	D	C	C	B
71	72	73	74	75	76	77	78	79	80
B	A	B	A	B	B	C	D	C	A
81	82	83	84	85	86	87	88	89	90
D	B	B	B	C	B	C	C	B	A
91	92	93	94	95	96	97	98	99	100
B	B	A	D	B	A	D	B	B	A
101	102	103	104	105	106	107	108	109	110
C	C	D	D	A	A	D	C	C	B
111	112	113	114	115	116	117	118	119	120
C	A	C	C	A	A	B	A	D	D
121	122	123	124	125	126	127	128	129	130
A	A	A	A	C	A	A	D	B	A
131	132	133	134	135	136	137	138	139	140
C	C	C	B	C	A	B	A	C	D
141	142	143	144	145	146	147	148	149	150
A	A	A	D	B	C	A	C	B	D

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<b>151</b>	<b>152</b>	<b>153</b>	<b>154</b>	<b>155</b>	<b>156</b>	<b>157</b>	<b>158</b>	<b>159</b>	<b>160</b>
D	A	A	D	D	A	C	D	C	D
<b>161</b>	<b>162</b>	<b>163</b>	<b>164</b>	<b>165</b>	<b>166</b>	<b>167</b>	<b>168</b>	<b>169</b>	<b>170</b>
C	A	A	B	B	A	C	D	A	A
<b>171</b>	<b>172</b>	<b>173</b>	<b>174</b>	<b>175</b>	<b>176</b>	<b>177</b>	<b>178</b>	<b>179</b>	<b>180</b>
C	C	B	B	D	D	C	C	A	A
<b>181</b>	<b>182</b>	<b>183</b>	<b>184</b>	<b>185</b>	<b>186</b>	<b>187</b>	<b>188</b>	<b>189</b>	<b>190</b>
C	D	C	D	C	C	B	B	B	B
<b>191</b>	<b>192</b>	<b>193</b>	<b>194</b>	<b>195</b>	<b>196</b>	<b>197</b>	<b>198</b>	<b>199</b>	<b>200</b>
B	D	A	B	A	B	B	C	A	A

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# 2

## Geomorphology

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- Which one of the following is produced by rain water action?  
A. Gorge                      B. Cliff  
C. Gully                        D. Dome
- Sand duns form a major topographic feature of:  
A. Eastern Rajasthan  
B. Western Rajasthan  
C. Punjab  
D. Gujarat
- The deepest lake in the world is:  
A. Pushkar lake      B. Lake superior  
C. Victoria Lake      D. Baikal Lake
- Vindhyan rocks contain large deposits of:  
A. Lime stone      B. Basalt  
C. Lignite            D. Iron ore
- Which one of the following statements is false?  
A. Peninsular region is geologically the oldest part of India  
B. The Himalayas represent the youngest folded mountains in the world  
C. The Western Coast of India has been formed by the depositional activity of rivers  
D. The Gondwana rocks have the largest deposits of coal in India.
- The only landlocked country in south-east Asia is:  
A. Laos                      B. Thailand  
C. Malaysia                D. Kampuchia
- Which of the following features is the product of vulcanicity?  
A. Fold Mountain  
B. Escarpment  
C. Geosynclines  
D. Caldera
- Which of the following landforms is not formed by weathering?  
A. Rift Valley            B. Crevasses  
C. Talus                    D. Yardang
- Which of the following landforms is formed by glacier?  
A. Tarn                      B. Lagoon  
C. Lappies                D. Doline
- With what are the Inselberg and Hamada associated?  
A. Glacial erosion      B. Wind erosion  
C. River erosion        D. Wind deposition
- The example of an intermontane plateau is:  
A. The plateau of Bolivia  
B. The plateau of Antrim  
C. The plateau of Deccan  
D. The plateau of pantagonia
- Conard Discontinuity is found.  
A. between crust and mantle.  
B. between sial and sima.  
C. between upper mantle and lower mantle.  
D. between out and inner core.
- Asthenosphere is:  
A. The Layer beneath the Lithosphere.  
B. The Layer above the Lithosphere.  
C. The Layer beneath the hydrosphere.  
D. None of the above
- The term Isostasy was used for the first time by:  
A. Daly                      B. Dutton  
C. Swess                    D. None of these
- Repetti Discontinuity can be located between:  
A. sial and sima  
B. outer core and inner core

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- C. upper mantle and lower mantle  
D. crust and mantle
16. Pratt theory is related to:  
A. sea floor spreading  
B. Isostasy  
C. continental drift  
D. earthquakes
17. Continental drift refers to the:  
A. vertical as well as horizontal movements of the continents on a vast scale.  
B. horizontal movement of the continents on a vast scale.  
C. vertical movement of the continents on a small scale.  
D. horizontal movement of the continents on a small scale.
18. In America, the idea of continental drift was developed by:  
A. F.B. Taylor      B. Win Davis  
C. Daly              D. Darwin
19. Which of the following is known as "Island of Precipitation"?  
A. Fault Mountains  
B. Fold Mountains  
C. Dome Mountains  
D. Block Mountains
20. Who formulated the hypothesis of sea floor spreading for the first time?  
A. Prof. Taylor  
B. Prof. W.M. Davis  
C. Prof. Harry Hess  
D. None of these
21. Mohorovicic Discontinuity is found between:  
A. outer and inner core  
B. sial and sima  
C. sima and outer mantle  
D. upper mantle and lower mantle
22. Heiskanen theory is related to:  
A. plate tectonics  
B. continental drift  
C. Isostasy  
D. sea floor spreading
23. The hypothesis of plate-tectonics assumes that the earth is composed of:  
A. 10 lithospheric plates  
B. 15 lithospheric plates  
C. 20 lithospheric plates  
D. 25 lithospheric plates
24. Which of the following statement is true about Igneous rocks?  
A. They have a little amount of fossils.  
B. They are porous for water.  
C. They are crystalline as well as non-crystalline.  
D. These rocks do not contain silica.
25. Gabbro is an example of:  
A. Igneous Rocks  
B. Sedimentary rocks  
C. Metamorphic rocks  
D. None of these
26. Following are the examples of Igneous rocks except.  
A. Basalt              B. Gabbro  
C. Dolerite            D. Dolomite
27. The Batholiths covering small areas are called:  
A. Stocks  
B. Dykes  
C. Sills  
D. Lapoliths
28. Airy theory is related to:  
A. Isostasy  
B. volcanoes  
C. continental drift  
D. sea floor spreading
29. Which of the statements is/are true of Igneous Rocks?  
1. They are non-porous for water  
2. These rocks are not subject to strong erosion  
3. These rocks contain silica from 40% to 80%.  
A. 1 and 2 are correct  
B. 2 and 3 are correct  
C. 1, 2 and 3 are correct  
D. None of these

30. Lava-obsidian is an example of:  
 A. Sedimentary  
 B. Igneous  
 C. Metamorphic  
 D. None of these
31. Following are the example of Igneous rocks except.  
 A. Granite                      B. Perlite  
 C. Pumic stone                D. Gneiss
32. Which of the following statement is correct?  
 A. About 60% of the surface rocks are igneous.  
 B. In thick crust of the earth 90% rocks are igneous and 10% sedimentary.  
 C. About 20% of the surface rocks are igneous and 80% are sedimentary.  
 D. About 80% of the surface rocks are igneous and rest are sedimentary.
33. When shale is metamorphosed it is transformed into:  
 A. slate                              B. phyllite  
 C. schist                             D. all of the above
34. Rocksalt, anhydrite and gypsum are all:  
 A. lithographic deposits  
 B. detrital deposits  
 C. organic deposits  
 D. evaporite deposits
35. What is the difference between conglomerate and Breccia?  
 A. Conglomerate is round, breccia is angular.  
 B. Conglomerate is angular, breccia is round.  
 C. Conglomerate is light, breccia is dark.  
 D. Conglomerate is porous, Breccia is compact.
36. Red colouration in sedimentary rocks is because of:  
 A. presence of iron-oxide  
 B. presence of red sand  
 C. presense of hydrous oxide  
 D. all of the above
37. Siltstone belongs to:  
 A. Arenaceous sediments (sandstone, coarse siltstone)  
 B. Argillaceous sediments (siltstone)  
 C. Rudaceous sediments  
 D. Inorganic sediments
38. Which of the following statement is incorrect?  
 A. Sedimentary rocks are made up of broken materials of sedimentary igneous and metamorphic rocks  
 B. These rocks are also known as strata rocks.  
 C. The planes separating different layers are caused bedding planes  
 D. Bedding planes are always inclined.
39. Thickly bedded sediments are termed \_\_\_\_\_ while thinly bedded sediments are called\_\_\_\_\_  
 A. desiccated, massive  
 B. cemented, desiccated  
 C. massive, laminae  
 D. lamlnae, massive
40. The rock composed mainly of volcanic is called as:  
 A. Volcanic rocks  
 B. Ash rocks  
 C. Tuff  
 D. Pyroclastic rock
41. The broken materials as result of weathering, which form the source of sedimentary rock is called:  
 1. clastic sedimentary rock  
 2. detrital sedimentary rock.  
 3. non-clastic sedimentary rock.  
 4. non detrital sedimentary rock.  
 A. 1 and 2                      B. 2 and 3  
 C. 3 and 4                      D. 1 and 4
42. Arrange the following rocks in a descending order in terms of silica content:  
 1. Basalt                              2. Granite  
 3. Andesite                            4. Rhyolite  
 A. 2, 3, 4, 1                      B. 4, 3, 1, 2  
 C. 1, 2, 3, 4                      D. 1, 2, 4, 3

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43. Identify the following rock:
1. It is coarse-grained igneous rock consisting essentially of quartz, feldspar and mica.
  2. It has a high proportion of silica.
  3. It has a less specific gravity.
  4. It ranges in colour from light grey to medium grey.
- A. Andesite                      B. Peridotite  
C. Gabbro                         D. Granite
44. An intrusive rock is:
- A. volcanic lava solidified before reaching the surface.
  - B. volcanic lava solidified after reaching the surface.
  - C. a variety of sedimentary rock.
  - D. a rock which has resisted erosion.
45. Which of the following characteristics of a sediment is least likely to change when it becomes a rock?
- A. Density                        B. Texture
  - C. Porosity                       D. Composition
46. Rocks with 65 percent silicon oxide are better termed as:
- A. Mafic                          B. Felsic
  - C. Silicic                         D. Alkali
47. **Assertion (A) :** The edge of the continental level is submerged to a depth of about 200 m.  
**Reason (R) :** This zone is called the continental shelf.
- A. Both A and R are true but 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 and R is false.
  - D. A is false but R is true.
48. The boundary between the mantle and core is called:
- A. Weichert–Gutenberg discontinuity
  - B. Lehmann discontinuity
  - C. Zehmann free velocity Zone
  - D. None of these
49. The average age of the earth is:
- A. 6000 million years
  - B. 4500 million years
  - C. 9000 million years
  - D. 600 million years
50. What is not true about the mantle?
- A. It extends from Moho to 2900 km.
  - B. It forms 83 per cent of the earth by volume and 68 per cent by mass.
  - C. It is everywhere in semi plastic state.
  - D. There is increase in seismic velocity.
51. That is the outer core in liquid is borne out by the fact that:
1. free earth oscillations give undeniable evidence of it.
  2. the p-waves are reflected back.
  3. the L-waves are refracted.
  4. the S-waves get lost after entering the outer core
- A. 1 and 2 are correct
  - B. 1 and 3 are correct
  - C. 1 and 4 are correct
  - D. All are correct
52. The crust beneath the ocean basins is composed of:
- A. Granitic rock
  - B. Basaltic rock
  - C. Sedimentary rock
  - D. Metamorphic rock
53. The most common element in the earth's crust is:
- A. oxygen                         B. silicon
  - C. hydrogen                      D. aluminium
54. Which of the following statement is not true?
- A. The upper continental crust and the lower continental crust are separated by a discontinuity.
  - B. The lower continental crust is relatively more dense.
  - C. The lower continental crust is chiefly composed of basalts.
  - D. The upper continental crust is floating on the lower continental crust.

55. Knowledge about the earth's interior can be gained by:

1. density differences with depth
2. seismology
3. free earth oscillation
4. composition

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

56. Arrange the following constituents of the earth according to its percentage:

1. Silica                      2. Titanium
3. Aluminium              4. Iron

**Codes:**

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

57. Which of the following is not true?

- A. Rocks often develop cracks produced by compression or tension which are called joints.
- B. In igneous rocks joints are often at right angles to the bedding plane.
- C. Limestone and sandstone break into blocks
- D. Basalt break into columns

58. Clay is a type of:

- A. Impermeable rock
- B. Permeable rock
- C. Porous rock
- D. Hard rock

59. Arrange the following sedimentary rocks in ascending order according to their texture.

1. Gravels
2. Sands
3. Clays
4. Silts
5. Breccia

- A. 1, 2, 3, 4, 5                B. 4, 3, 2, 1, 5  
C. 3, 4, 2, 1, 5                D. 4, 3, 2, 5, 1

60. Match the following metamorphosed forms:

- |               |               |
|---------------|---------------|
| (a) Graphite  | 1. Clay       |
| (b) Slate     | 2. Lime stone |
| (c) Quartzite | 3. Coal       |
| (d) Marble    | 4. Sand stone |

**Codes:**

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

61. Match the following:

- |                   |                     |
|-------------------|---------------------|
| (a) Loess         | 1. River deposits   |
| (b) Moraines      | 2. Glacier deposits |
| (c) Gravels       | 3. Wind deposits    |
| (d) Sand and clay | 4. Sea deposits     |

**Codes:**

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

62. **Assertion (A):** The Basalt rocks are formed over the surface, while granite rocks reach the surface only by being exposed by erosion.

**Reason (R):** Basalt is volcanic rock while granite rock is plutonic rock.

- 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

63. Clastic sedimentary rocks are largely or completely made of particles of:

- A. eroded rock particles from the land.
- B. eroded volcanic matter
- C. organic matter
- D. mostly clay materials

64. The capacity of rock to transmit water is:

- A. permeability
- B. porosity
- C. oxidation
- D. carbonation

65. **Assertion (A):** Clay is porous but is impermeable.

**Reason (R):** The small air spaces in clay are not arranged in such a way that water can pass through it.

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- 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
66. Some igneous rocks contain a high percentage of iron, or aluminium or magnesium oxides and are called basic rocks. Which of the following is an example of basic rocks?  
A. Gabbro                      B. Khondalite  
C. Charnokite                D. Microsyenite
67. What is granite?  
A. A common igneous rock that cooled at the surface and is composed of feldspar and pyroxene.  
B. A common igneous rock that cooled relatively slowly and is made up of feldspar and quartz.  
C. An igneous rock type that is a major constituent of lava.  
D. A common mineral that makes up a large part of the earth's crust
68. Soap stone, a massive impure variety of talc which tends itself to carving is also known as:  
A. Stealite                      B. Khondalite  
C. Green stone                D. Charnockite
69. Some igneous rocks contain a high percentage of silica and are called acid rocks. Which of the following is not an example of acid rocks?  
A. Basalt                        B. Granite  
C. Rhyolite                      D. Syenite
70. Which of the following pairs is the most useful in determining a rock's origin?  
A. Colour and shape  
B. Size and weight  
C. Composition and texture  
D. Density and volume
71. Magnetism in rocks can be acquired by:  
1. Lightning  
2. Deposition of sedimentary rocks  
3. Weathering of rocks  
4. Solidification of magma
- codes :**  
A. 1 and 2 are correct  
B. 1 and 3 are correct  
C. 1, 3 and 4 are correct  
D. 1, 2 and 4 are correct
72. Which of the following characteristics is not found in igneous rocks?  
A. They occur in layers according to the depth of formation  
B. They contain crystals  
C. They do not contain fossils  
D. None of these
73. In tropical humid conditions when weathering takes place which of the following is lost from feldspar:  
A. Silica                        B. Calcium  
C. Iron                            D. Potassium
74. Feldspar is silicate of following minerals, which does not come in the group.  
A. Aluminium (Al)    B. Potassium (K)  
C. Sodium (Na)        D. Iron (Fe)
75. The seas on the continental shelf is called:  
A. arica-sea  
B. the epicontinental sea  
C. shelf seas  
D. Both B and C
76. Find out the correct order, of the composition of sedimentary rocks.  
A. limestone, shales, sandstone  
B. shales, limestone, sandstone  
C. shales sandstone, limestone  
D. sandstone, shales, limestone
77. Loess is:  
A. Ice deposited sedimentary rocks  
B. wind deposited sedimentary rocks  
C. only deposits  
D. a soil type
78. Till is:  
A. sedimentary rocks formed of cementation  
B. ice deposited soils  
C. ice deposited sedimentary rocks  
D. None of these