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Chapter - 01

The Earth and the Universe

The Earth and The Universe

1. Solar system and Universe
2. Earth (Structure and relief)
3. Rocks and their types

1. Milky Way Galaxy was first seen by
(A) Galileo (B) Martin Schmidt
(C) Marconi (D) Newton

2. Who founded the word "Geography"?
(A) Ptolemy (B) Eratosthenes
(C) Hicatus (D) Herodotus

3. Which of the following Scientist proved that the path of each planet around the Sun is elliptical?
(A) Kepler (B) Galileo
(C) Newton (D) Copernicus

4. Comets moves around the
(A) Earth (B) Venus
(C) Sun (D) Jupiter

5. Which of the following is not related to solar system?
(A) Small planet (B) Comets
(C) Planet (D) Nebula

6. Pulsar are
(A) Stars moving towards Earth
(B) Stars moving away from Earth
(C) Rapidly rotating stars
(D) Stars with high temperature

7. The distance between Earth and Sun is maximum on?
(A) January 30 (B) December 20
(C) September 22 (D) July 4

8. What is the total number of planets move around the Sun?
(A) Five (B) Eight
(C) Seven (D) Six

9. Which of the following is the largest planet?
(A) Jupiter (B) Venus
(C) Saturn (D) Uranus

10. The four largest planets of the solar system in descending order are
(A) Jupiter, Mercury, Saturn and Uranus
(B) Mercury, Jupiter, Saturn and Neptune
(C) Jupiter, Saturn, Uranus and Neptune
(D) Jupiter, Mercury, Saturn and Neptune

11. The number of satellite of mercury is / are
(A) 0 (B) 1
(C) 2 (D) 16

12. Which of the following planets do not have satellite?
(A) Mars and Venus (B) Mercury and Venus
(C) Mars and Mercury (D) Neptune and Pluto

13. Which of the following scientist had proven that every planet has an elongated path?
(A) Galileo (B) Newton
(C) Copernicus (D) Kepler

14. How many days in one year on mercury?
(A) 56 (B) 88
(C) 300 (D) 36

15. Which of the following is not a satellite of Jupiter?
(A) Europa (B) Ganymede
(C) Callisto (D) Deimos

16. Why stars look more in west than east?
(A) Universe is moving from east to west
(B) Earth is moving around the Sun
(C) Earth is moving from east to west
(D) Earth is moving from west to east

17. In astrophysics, what is the name of hole in outer space which emits stars and energy?
(A) Black Hole (B) Ozone Hole
(C) Asteroid Belt (D) White Hole

18. Which is the nearest planet to Sun?
(A) Earth (B) Mercury
(C) Mars (D) Venus





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19. The orbit in which of the following planet is nearest to the Sun?

- (A) Saturn (B) Jupiter
(C) Mars (D) Uranus

20. Which of the following celestial bodies is located farthermost to the Earth?

- (A) Saturn (B) Uranus
(C) Neptune (D) Pluto

21. The mass of Jupiter is almost

- (A) Tenth of the mass of the Sun
(B) One Thousandth of the mass of the Sun
(C) Hundred of the mass of the Sun
(D) Half of the mass of the Sun

22. One astronomical unit is the average distance between which of the following?

- (A) Earth and Sun (B) Earth and Moon
(C) Jupiter and Sun (D) Pluto and Sun

23. Which is the brightest planet of the solar system?

- (A) Jupiter (B) Mercury
(C) Uranus (D) Venus

24. Which is the hottest planet in the solar system?

- (A) Jupiter (B) Saturn
(C) Venus (D) Uranus

25. Which planet is known as big as Earth in our solar system?

- (A) Mercury (B) Mars
(C) Venus (D) Pluto

26. Which planet shows the phases like Moon?

- (A) Venus (B) Pluto
(C) Jupiter (D) Mars

27. In how many parts the shadow of Earth is divided during solar or lunar eclipse?

- (A) Five (B) Two
(C) Four (D) Three

28. Which star is nearest to the Earth?

- (A) Sun (B) Alpha Centauri
(C) Pole star (D) Chitra

29. On which day, Earth is closest to the Sun?

- (A) 23 September (B) 3 January
(C) 4 July (D) 21 March

30. After Sun, which is the closest star to the Earth?

- (A) Vega (B) Sirius
(C) Proxima centauri (D) Alpha centauri

31. The surface temperature of the Sun is measured

- (A) 6000°C (B) 12000°C
(C) 18000°C (D) 24000°C

32. The outermost layer of the Sun is called?

- (A) Chromosphere (B) Photosphere
(C) Corona (D) Lithosphere

33. The energy of Sun is vested in which of the following process?

- (A) Photoelectric Emission
(B) Nuclear Fission
(C) Nuclear Fusion
(D) Temperate Emission

34. How old is Earth, It is decided by which of the following processes?

- (A) Geologic Time Scale
(B) Radiometric Dating
(C) Gravity Method
(D) Fossil Dating

35. Which of the following is called Red Planet?

- (A) Venus (B) Mercury
(C) Mars (D) Jupiter

36. Answer the name of first Asian country to reach the orbit of Mars

- (A) Japan (B) India
(C) Pakistan (D) China

37. Which of the following is called "Blue Planet"?

- (A) Saturn (B) Earth
(C) Jupiter (D) Mars

38. The light of Sun takes how much time to reach to Earth

- (A) 8 hours 20 seconds
(B) 8 minutes 20 seconds
(C) 8 seconds
(D) 20 seconds





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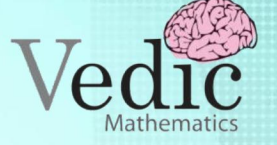
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39. The Synchronous satellite moves around the Earth from

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

40. In which of the following areas, the "Midnight Sun" can be seen?

- (A) In tropical areas
- (B) In temperate areas
- (C) Arctic and Antarctica circle
- (D) Anywhere during solar eclipse

41. What is the meaning of "Midnight Sun"?

- (A) Evening light
- (B) Rising Sun
- (C) Very bright Moon
- (D) Shining of Sun in Arctic and Antarctica circle

42. 'Messenger' satellite has been launched by NASA for the study of

- (A) Mercury
- (B) Venus
- (C) Saturn
- (D) Jupiter

43. We always see the same surface of the Moon because

- (A) It is smaller than the Earth
- (B) It rotates on its axis
- (C) It takes the same time to rotate on its axis and moving around the Earth
- (D) It moves with the same speed at which Earth moves around the Sun

44. The darkest part of the shadow during eclipse is

- (A) Halo
- (B) Umbra
- (C) Penumbra
- (D) Black Hole

45. Low tides are

- (A) Strong
- (B) Weak
- (C) Moderate
- (D) Very Weak

46. Which of the following is caused by the combined effects of the gravitational forces exerted by the Moon and the Sun on sea levels?

- (A) Currents
- (B) Runoff
- (C) Tides
- (D) Waves

47. Tides are caused by the gravitational forces of

- (A) Of Earth on Moon
- (B) Of Earth on Sun
- (C) Of Sun and Moon on Earth
- (D) Of Moon on Earth

48. When does tides rise in sea?

- (A) Only on lunar day
- (B) Full Moon and half Moon
- (C) When Moon is on first phase
- (D) Only half Moon

49. Which of the following celestial body contains Helium-4 in abundance?

- (A) Earth
- (B) Moon
- (C) Venus
- (D) Saturn

50. The Earth is tilted on its axis

- (A) 23.5 degree
- (B) 22.5 degree
- (C) 21.5 degree
- (D) 20 degree

51. In how much time, Earth rotates once on its axis?

- (A) 23 hours 30 minutes
- (B) 23 hours 56 minutes 4.9 sec
- (C) 23 hours 10 minutes 2 sec
- (D) 24 hours

52. Day and night are formed

- (A) Due to the shape of the orbit of Earth
- (B) Due to the motion of revolution
- (C) Due to the speed of rotation
- (D) None of these

53. Days and nights are similar here

- (A) Poles
- (B) Main time zone
- (C) Antarctica
- (D) Equator

54. What is "Supernova"?

- (A) Comet
- (B) Asteroid
- (C) Meteor
- (D) Black Hole

55. What is the circumference of the Earth?

- (A) 13,000km
- (B) 20,000km
- (C) 25,000km
- (D) 40,000km

56. When and where did the concept of the Earth Hour started?

- (A) June, 2007 in Christchurch, New Zealand





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- (B) May, 2009 in Colombo, Srilanka
(C) April, 2008 in Tokyo, Japan
(D) March, 2007 in Sydney, Australia

57. How many Geo-synchronous satellites are required for uninterrupted world broadcasting?

- (A) 3 (B) 4
(C) 2 (D) 1

58. The study of the processes of atmosphere is called as

- (A) Astrology (B) Meteorology
(C) Seismology (D) Astronomy

59. Which of the following depletes the UV radiation on the Earth?

- (A) Carbon monoxide (B) Carbon dioxide
(C) Ozone (D) Oxygen

60. Which is the lowest layer of Atmosphere?

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

61. Where do all meteorological incidents occur?

- (A) Stratosphere (B) Troposphere
(C) Ionosphere (D) Exosphere

62. What is the name of the layer closest to the Earth?

- (A) Ionosphere (B) Stratosphere
(C) Troposphere (D) Exosphere

63. Which gas is found in maximum quantity in lower atmosphere?

- (A) Hydrogen (B) Carbon dioxide
(C) Oxygen (D) Nitrogen

64. What is the percentage of Nitrogen in atmosphere of the Earth?

- (A) 0.94 (B) 0.03
(C) 78.03 (D) 85.02

67. What is the name of the layer above Earth' surface which is located at the height of 8km from poles and 16km from the equator?

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

65. The total number of layers above Earth are

- (A) 4 (B) 5

(C) 2

(D) 3

66. Choose the correct option with the correct sequence of the layers of atmosphere

- (A) Mesosphere, Ionosphere, Exosphere, Troposphere, Stratosphere
(B) Ionosphere, Exosphere, Mesosphere, Stratosphere, Troposphere
(C) Exosphere, Troposphere, Ionosphere, Mesosphere, Stratosphere
(D) Troposphere, Stratosphere, Mesosphere, Ionosphere, Exosphere

67. Which of the following is located at the minimum height from the Earth?

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

68. The layer of atmosphere which reflects radio waves is

- (A) Ionosphere (B) Troposphere
(C) Stratosphere (D) Exosphere

69. At which height, the gaseous surrounding has covered the Earth's atmosphere?

- (A) 100km (B) 150km
(C) 200km (D) 300km

70. The heat from Sun to Earth is called as

- (A) Temperature Radiation
(B) Insolation
(C) Emitted Heat
(D) Solar Radiation

71. In which layer, temperature increases dramatically?

- (A) Ionosphere (B) Exosphere
(C) Stratosphere (D) Troposphere

72. Troposphere is the most warm part of the atmosphere because

- (A) It is closer to the Sun
(B) It contains charged particles
(C) It gets warm from the heat of the surface of the Earth
(D) It produces heat

73. The Ozone hole is detected in the atmosphere, where is it located?

- (A) Above Arctic Ocean
(B) Above Antarctica





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- (C) Above India
(D) Above Alaska

74. Where is Ozone layer found?

- (A) Troposphere (B) Ionosphere
(C) Stratosphere (D) Exosphere

75. Which of the following statement is correct?

- (A) Air capacity of vaporization reduces with the rise in the temperature of air.
(B) Atmospheric pressure reduces due to rise in temperature.
(C) Relative humidity is denoted in gram per cubic meter of air.
(D) Temperature decreases 10°C at every 165 height.

76. What is the difference between the Local time and Greenwich time one degree longitude?

- (A) 2 minutes (B) 4 minutes
(C) 6 minutes (D) 8 minutes

77. What is the term used for the day on 23 September when day and night are equal throughout the world?

- (A) Autumnal Equinox
(B) Astronomical Equinox
(C) Winter Solstice
(D) Spring Equinox

78. Equator is

- (A) Line which connects north and south poles
(B) Imaginary line which rotates around the Earth in the centre of north and south poles
(C) The girdle around the Saturn
(D) Axis of the rotation of the Earth

79. Which of the following is the International Date line?

- (A) Equator
(B) 0° longitude
(C) 90° eastern longitude
(D) 180° longitude

80. What is known as High Pressure Subtropical Latitude?

- (A) Roaring forties (B) Furious fifties
(C) Screaming sixties (D) Horse latitudes

81. Due to gravity, acceleration at the Equator is

- (A) Less than acceleration on poles
(B) More than acceleration on poles

- (C) Equal to acceleration on poles
(D) Not dependent on the centrifugal acceleration of Earth

82. The Tropic of Cancer does not pass through

- (A) India (B) Pakistan
(C) Bangladesh (D) Myanmar

83. The Equator does not pass through which of the following?

- (A) Kenya (B) Mexico
(C) Indonesia (D) Brazil

84. The imaginary line which connects places of similar height on map, are?

- (A) Hachure (B) Contour
(C) Spot-Height (D) Isometric

85. The Contour line is those imaginary line which show?

- (A) Areas of similar atmospheric pressure
(B) Areas of similar temperature
(C) Areas of similar height
(D) Equal Sunning areas

86. The Map showing the specialty of the surface of any area is called as

- (A) Relief Map (B) Area Map
(C) Thematic Map (D) Geographic Map

87. The word "Isoneph" represents the lines of equal ____

- (A) Cloudiness (B) Salinity
(C) Rain (D) Pressure

88. Isobar lines show

- (A) Pressure (B) Rain
(C) Depth (D) Time

89. Which of the following pairs is wrong?

- (A) Isohyet - Humidity
(B) Isobar - Pressure
(C) Isohale - Sun light
(D) Isotherm - Temperature

90. The imaginary lines which connects the places of same temperature are called

- (A) Isobar (B) Isohyet
(C) Isohaline (D) Isotherm





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91. Which of the following line represents the line which connects the places of equal rain?

- (A) Isohypse (B) Isohalines
(C) Isobar (D) Isohyets

92. The network of the series of vertical and horizontal lines is known as

- (A) Latitude
(B) Grid System
(C) Longitude
(D) Geographical Coordinates System

93. The science of drawing map is called

- (A) Cartography (B) Geography
(C) Topology (D) Geology

94. The alignment of the lines of beginning and end is expressed by

- (A) Dentate (B) Feasibility
(C) Record (D) Font

95. The instrument to measure the area on maps is called

- (A) Planimeter (B) Ideograph
(C) Pantograph (D) Opisometer

96. What is the name of the maps, natural and man-made, portray the large forms?

- (A) Thematic Maps (B) Atlas Maps
(C) Graffito (D) Topographic Maps

97. Which of the followings are related with "Lithosphere"?

- (A) Plant and Insect (B) Earth's Interior
(C) Earth's Crust (D) None of these

98. What is changed in metamorphic rocks?

- (A) Structure
(B) Formation
(C) (A) and (B) both
(D) Actual chemical composition

99. The Rocks of granite are changed into which of the following due to metamorphism?

- (A) Marble (B) Feldspar
(C) Gneiss (D) Quartz

100. Granite display standing quartzite zone because?

- (A) These rocks are resistant to all kinds of erosion

(B) They do not decay easily

(C) They weathers quickly

(D) These rocks do not destruct easily

101. Which of the following are Metamorphic rocks?

- (A) Gneiss and Mafic (B) Gneiss and Schist
(C) Schist and Mafic (D) Schist and Chalk

102. What are Obsidian, Andesite, Gabbro and Peridotite?

- (A) Intrusive rocks (B) Sedimentary rocks
(C) Extrusive rocks (D) Metamorphic rocks

103. Which of the following rock has formed the Earth's crust?

- (A) Igneous (B) Metamorphic
(C) Sedimentary (D) Carbonate

104. Which of the following is an Example of Abyssal Igneous Rock?

- (A) Basalt (B) Granite
(C) Slate (D) Dolomite

105. The Metamorphism of Shale occurs in which of the following rocks?

- (A) Graphite (B) Gneiss
(C) Marble (D) Slate

106. The region which is resistant to the transformation of macro structure, is called?

- (A) Firm structure (B) Ancient structure
(C) Tectonic plate (D) Shield

107. Why the Earth is having its own atmosphere ?

- (A) Winds (B) Clouds
(C) Gravity (D) Rotation of the Earth?

108. A level of atmosphere which is composed partly of Electrons and Positive Ions is called

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

109. What is the position of the Earth when it is at the greatest distance from the Sun?

- (A) Aphelion (B) Antipode
(C) Perihelion (D) Aldiatc

110. Which of these is a dwarf planet?





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- (A) Neptune (B) Titan
(C) Eris (D) Hydra
111. Equinox occurs when the Sun is vertically above
(A) Tropic of Capricorn (B) Tropic of Cancer
(C) Poles (D) Equator
112. The most abundant metal in the Earth's Crust is
(A) zinc (B) copper
(C) Aluminium (D) iron
113. When does the Sun shine vertically on the Equator?
(A) Throughout the year
(B) For six months
(C) Twice a year
(D) Once a year
114. Which of the following is not an Igneous Rock?
(A) Dolomite (B) Granite
(C) Basalt (D) Gabbro
115. The outermost layer of Sun is called
(A) Lithosphere (B) Chromosphere
(C) Photosphere (D) Corona
116. Which is the warmest layer of the atmosphere?
(A) Thermosphere (B) Troposphere
(C) Stratosphere (D) Mesosphere
117. What is the interval between a high tide and neap tide at a given place?
(A) 12 hours
(B) 12 hours 26 minutes
(C) 15 hours 30 minutes
(D) 24 hours
118. On which of the following planets water cycle is available?
(A) Jupiter (B) Earth
(C) Mars (D) Venus
119. Suppose if we measure the time lapse between the two Sunsets by sitting in the beach, from this we can estimate :
(A) The distance between the Sun and the Earth
(B) The depth of the ocean
(C) The radius of the Earth
(D) The radius of the Sun

120. Equator represents
(A) Line joining North and South poles
(B) Imaginary line passing round the Earth midway between North & South poles
(C) A belt (ring) around the planet Saturn
(D) Axis of rotation of Earth
121. Which planet is called Evening Star?
(A) Mars (B) Mercury
(C) Venus (D) Jupiter
122. Which planet looks reddish in the night sky?
(A) Jupiter (B) Saturn
(C) Mars (D) Mercury
123. Which planet in our solar system is nearly as big as the Earth?
(A) Mercury (B) Mars
(C) Venus (D) Pluto
124. The planet which has the highest surface temperature is
(A) Jupiter (B) Earth
(C) Pluto (D) Venus
125. Light from the Sun reaches us in nearly
(A) 8 min. (B) 2 min.
(C) 6 min. (D) 4 min.
126. Solar eclipse occurs when?
(A) The Moon does not lie on the line joining the Sun and the Earth
(B) The Moon comes between the Sun and the Earth
(C) The Sun comes between the Moon and the Earth
(D) The Earth comes between the Moon and the Sun
127. When the Moon completely covers the Sun, it is known as?
(A) The Antumbra (B) The Umbra
(C) The Penumbra (D) None of these
128. Which among the following statements is true regarding International Date Line?
(A) It is 180° Longitude
(B) It is a straight line
(C) It is a big circle
(D) It is a curved line beyond Earth





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129. The Sunlight is available 24 hours on the longest day at which of the following latitudes of the Earth?

- (A) 49° (B) 66.5°
(C) 63° (D) 69.51'

130. The Earth rotates on its axis at an inclination of :

- (A) 23.5° (B) 22.5°
(C) 21.5° (D) 20°

131. 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.

132. The acceleration due to gravity at the equator:

- (A) Is less than that at the poles
(B) Is greater than that at the poles
(C) Is equal to that at the poles
(D) Does not depend on the Earth' centripetal acceleration

133. When the Earth is at the maximum distance from the Sun, it is called

- (A) Aphelion (B) Perihelion
(C) Equinox (D) Sidereal

134. Which one of the following organisations is responsible for publishing topographical sheets?

- (A) Geological Survey of India (G.S.I.)
(B) National Atlas & Thematic Mapping Organisation (N.A.T.M.O.)
(C) Indian Meteorological Department (I.M.D.)
(D) Survey of India (S.O.I.)

135. The inner-most layer of the Earth is known as:

- (A) Lithosphere (B) Mesosphere
(C) Aesthenosphere (D) Barysphere

136. What is the alternate name for contour lines?

- (A) Isopotential (B) Isotherm
(C) Isohypse (D) Isohyet

137. In the context of 'time'. GMT means

- (A) General Meridian Time
(B) Greenwich Mean Time

(C) Global Mean Time

(D) None of these

138. Which of the following Isohels are the isopleths of

- (A) Sunshine (B) Flowering time
(C) Rain (D) Clouds

139. The imaginary lines joining places of same height at equal intervals are

- (A) Hachures (B) Contours
(C) Spot-heights (D) Isomers

140. Tides are caused by the gravitational pull of the

- (A) Earth on the Moon
(B) Earth on the Sun
(C) Sun and Moon on the Earth
(D) Moon on the Earth

141. The Tropic of Cancer does not pass through

- (A) Myanmar (B) Nepal
(C) Bangladesh (D) China

142. The majority of Earth's crust is composed of which rock?

- (A) Igneous (B) Metamorphic
(C) Sedimentary (D) Carbonate

143. The deflection of the winds to the right in the northern hemisphere is caused by :

- (A) Revolution of the Earth
(B) Rotation of the Earth
(C) Uneven heating of the Earth
(D) All the above

144. The zone of Earth's atmosphere immediately above its surface up to a height of about 16 kms above equator and 8 kms over the poles is known as :

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

145. Density of the Earth's atmosphere is highest in the

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

146. The atmospheric layer farthest from the Earth's surface is known as :

- (A) Stratosphere (B) Exosphere





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(C) Ionosphere (D) Mesosphere
147. Shale is metamorphosed into which of the following rocks?

- (A) Graphite (B) Gneise
(C) Marble (D) Slate

148. Marble is the metamorphosed form of

- (A) Shale (B) Basalt
(C) Sandstone (D) Limestone

149. Dolomite is a/an

- (A) Sedimentary rock (B) Plutonic rock
(C) Igneous rock (D) Metamorphic rock

150. Which one of the following is igneous rock?

- (A) Limestone (B) Granite
(C) Marble (D) Slate

151. The Mohorovicic (Moho) Discontinuity separates

- (A) Outer core and Mantle
(B) Inner and Outer core
(C) Sima and Nife
(D) Crust and Mantle

152. Sandstone is metamorphosed to :

- (A) Shale (B) Slate
(C) Quartzite (D) Marble

153. Breaking down of rock in situ is known as :

- (A) Erosion (B) Weathering
(C) Mass wasting (D) Degradation

154. Which one of the following is a Sedimentary Rock?

- (A) Granite (B) Charnockite
(C) Basalt (D) Arkose

155. Which of the following is an organic rock?

- (A) Marble (B) Coal
(C) Granite (D) Slate

156. The most abundant element in the Earth's atmosphere is

- (A) Argon (B) Nitrogen
(C) Oxygen (D) Krypton

157. On which date is India likely to experience the shortest day?

- (A) December 22 (B) March 21
(C) June 22 (D) September 23

158. Magnetic Meridian is a

- (A) Line parallel to the equator of the Earth
(B) Latitude
(C) Line joining the geographic north and geographic south of Earth
(D) Plane passing through the magnetic north and magnetic south of Earth

159. The core of the Earth is also known as

- (A) Lithosphere (B) Mesosphere
(C) Barysphere (D) Centrosphere

160. Bridgmanite is

- (A) A bridge on the river Thames
(B) Name of a game
(C) Earth's most abundant mineral
(D) Name of a music

161. Which of the following is indicated by the colour of a star?

- (A) Weight (B) Distance
(C) Temperature (D) Size

162. When does solar eclipse take place?

- (A) When the Sun is between the Moon and Earth
(B) When the Earth is between the Moon and Sun
(C) When the Moon is between the Sun and Earth
(D) When the Moon does not lie on the line joining the Sun and Earth

163. Evidence suggests that life on Earth has existed for about _____.

- (A) 3.5 million years (B) 35 billion years
(C) 35 million years (D) 3.5 billion years

164. What is the study of Moon called?

- (A) Selenology (B) Cosmology
(C) Iridology (D) Planetology

165. "Sirius", the brightest star outside of the Solar System, is also called _____.

- (A) Cat star (B) Dog star





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(C) Fox star

(D) Lion star

166. 1 - degree of latitude is equal to ____.

(A) 11 Km

(B) 211 Km

(C) 111 Km

(D) 311 Km

167. Marble is a metamorphic rock of ____.

(A) Sandstone

(B) Limestone

(C) Granite

(D) Clay

168. World's longest land border is between which two countries?

(A) Australia and New Zealand

(B) India and China

(C) Switzerland and Italy

(D) Canada and USA

169. Who proposed Continental drift theory?

(A) Alfred Wegener

(B) Alfred Warwick

(C) Alfred Hanks

(D) Alfred Mane

170. What is the approximate circumference of Earth?

(A) 40,000 Km

(B) 60,000 Km

(C) 80,000 Km

(D) 1,00,000 Km

171. Who Invented Universal Standard Time?

(A) Enrico Fermi

(B) Adolf Gaston Eugen Fick

(C) Sandford Fleming

(D) Benoit Fourneyron

172. ____ is the time taken by the Earth to return to a given point in its orbit with reference to a fixed star.

(A) Lunar year

(B) Sidereal year

(C) Solar year

(D) Tropical year

173. Who was the first to measure the circumference of the Earth?

(A) Eratosthenes

(B) Aegeus

(C) Eratosthenes

(D) Apheidas

174. ____ is a natural electrical phenomenon characterized by the appearance of streams of reddish or greenish light in the sky, especially near the northern or southern magnetic pole.

(A) Acaulis

(B) Alatus

(C) Albopictus

(D) Aurora

175. Triton is the Moon of which planet?

(A) Neptune

(B) Uranus

(C) Saturn

(D) Venus

176. The main mineral constituents of the continental mass water ____ and alumina.

(A) Iron Oxide

(B) Silica

(C) Water

(D) Oxygen

177. ____ is an example of intrusive igneous rock.

(A) Conglomerate

(B) Shale

(C) Sandstone

(D) Granite

178. The innermost layer is the core with a radius of about ____ km.

(A) 500

(B) 6500

(C) 9500

(D) 3500

179. The final boundary between the Earth and the outer space is called ____.

(A) magnetosphere

(B) ionosphere

(C) mesopause

(D) magnetopause

180. Gravitational force is maximum at which of the following place?

(A) At Equator

(B) At Tropic of Cancer

(C) At Tropic of Capricorn

(D) At Poles

181. Marble comes under which category of rocks?

(A) Sedimentary

(B) Igneous

(C) Metamorphic

(D) None of these

182. Which planet is considered as the Dwarf planet?

(A) Earth

(B) Jupiter

(C) Pluto

(D) Saturn

183. Sandstone is which type of rock?

(A) Calcwaterous Rock

(B) Igneous Rock

(C) Metamorphic Rock

(D) Sedimentary Rock

184. The boundary between Earth's Crust and Mantle is ____.

(A) Moho discontinuity





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- (B) Lehman discontinuity
(C) Conrad discontinuity
(D) Gutenberg discontinuity

185. Rotational axis of which of the following planet is highly tilted?

- (A) Earth (B) Uranus
(C) Neptune (D) Jupiter

186. How much is the difference of time between any two consecutive longitudes?

- (A) 10 minutes (B) 14 minutes
(C) 4 minutes (D) 30 minutes

187. Which among the following imaginary line lies at 0° latitude?

- (A) Equator
(B) Tropic of Cancer
(C) Tropic of Capricorn
(D) Prime Meridian

188. What are the imaginary lines encircling the Earth horizontally called?

- (A) Latitudes (B) Longitudes
(C) Isobars (D) Isotherms

189. Which of the following pair is INCORRECT?

- (A) 0° longitude - Prime Meridian
(B) 0° longitude - Equator
(C) 0° latitude - Equator
(D) 23.5° North - Tropic of Cancer

190. What are the imaginary lines touching both the poles of Earth called?

- (A) Latitudes (B) Longitudes
(C) Isobars (D) Isotherms

191. On which of the following date/dates, Winter Solstice is observed in Northern Hemisphere?

- I. 21st December
II. 5th August
III. 10th January
(A) Only I (B) I and II Both
(C) Only III (D) Only II

192. The only planet whose period of rotation is longer than the period of revolution around the Sun?

- (A) Mercury (B) Jupiter

- (C) Venus (D) Neptune

193. Masses of stars and galaxies are usually expressed in _____.

- (A) Earth's mass (B) Solar mass
(C) Lunar mass (D) Neutron mass

194. Which of the following pair is CORRECT?

- I. Prime Meridian - Longitude
II. Tropic of Cancer - Latitude
III. Equator - Latitude
(A) I and II (B) I and III
(C) II and III (D) All options are correct

195. During Lunar eclipse, which of the following is at the centre?

- (A) Earth (B) Moon
(C) Sun (D) Any other planet

196. Which of the following planet is farthest from Sun?

- (A) Saturn (B) Jupiter
(C) Neptune (D) Uranus

197. For a time difference of two hours, the longitudinal distance will be equal to _____.

- (A) 15° (B) 30°
(C) 45° (D) 60°

198. What causes the Earth's seasons?

- (A) Changes in the Earth's distance from the Sun
(B) Tilting of the Earth's axis
(C) Changes in the Earth's orbit
(D) Changes in the Sun's brightness

199. Which planet is known as the "Red Planet"?

- (A) Jupiter (B) Mars
(C) Venus (D) Mercury

200. What is the name of the galaxy that contains our solar system?

- (A) Andromeda (B) Milky Way
(C) Triangulum (D) Orion

