

11th Geography Lesson 2 Questions in English

2] The Solar system and the Earth

1. Laplace revised the argument of earth's origin by German professor Immanuel Kant in 1796, which is known as?
 - A) Big bang theory
 - B) Nebular Hypothesis
 - C) Plate tectonics theory
 - D) Singularity
2. Who propounded the accretion theory?
 - A) Lyttleton
 - B) Hubble
 - C) Lemaitre
 - D) Immanuel
3. According to which theory, approximately 4.6 billion years ago, the solar system was a cloud of dust?
 - A) Big bang theory
 - B) Nebular Hypothesis
 - C) Plate tectonics theory
 - D) Accretion theory
4. Which of the following is formed the sun?
 - A) Gas giants
 - B) Solar wind
 - C) Solar nebula
 - D) Solar storm
5. Consider the following statements about solar winds, find the correct answer.
 1. The solar wind swept away lighter elements like hydrogen and helium
 2. Only heavy rocky materials left by these winds created planets
 - A) 1 only
 - B) 2 only
 - C) Both 1&2
 - D) Neither 1 nor 2
6. _____ is a vast endless space which includes galaxies, stars, planets and others?
 - A) Universe
 - B) Milky way galaxy
 - C) Solar system
 - D) Constellation
7. Consider the following statements find the incorrect one
 1. Voyager 2 travelling speed - more than 62,764.416 km/h
 2. Still take more than 269,000 years to pass Deimos
 - A) 1 only
 - B) 2 only
 - C) Both 1& 2
 - D) Neither 1 nor 2
8. Earth's _____ is formed first when heavy elements collided and bound together
 - A) Mantle
 - B) Crust
 - C) Core
 - D) Rocks
9. Gravity captured some of the gases that made up the planet's _____
 - A) Atmosphere
 - B) Gaseous planets
 - C) Celestial bodies
 - D) Galaxy
10. Expanding universe hypothesis is otherwise called as
 - A) Big bang theory
 - B) Nebular Hypothesis
 - C) Plate tectonics theory
 - D) Accretion theory
11. Find out the incorrect statement
 - A) Abbe Georges Lemaitre, was the first to propose, a theory on the origin of the universe
 - B) According to big bang theory, the universe was formed before 11.75 million years ago.
 - C) Earth's rocky core formed first when heavy elements collided and bound together
 - D) Sirius, the brightest star in our night sky.

12. Theory of Edwin Hubble is

- A) Accretion theory
- B) Expanding universe hypothesis
- C) Nebular hypothesis
- D) Plate tectonic theory

13. _____ is called as cluster of many stars

- A) Nebula
- B) Constellation
- C) Solar system
- D) Galaxy

14. Consider the following statements, find out the incorrect one

1. The word galaxy is derived from the Latin word Galaxias

2. It means literally "milky", a reference to the Milky Way

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

15. Consider the following statements about big bang theory, find the correct statements

1. The explosion started 13.75 billion years ago

2. Within an hour it started swelling from small size to its current size.

3. Matter from the universe was thrown out with great force in all directions

4. From this matter, many groups of stars were formed which we call 'galaxies'

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

16. _____ Galaxy has a central concentration of stars known as the 'bulge'.

- A) Elliptical galaxy
- B) Irregular galaxy
- C) Spiral galaxy
- D) Spherical galaxy

17. Match the following

1. Elliptical galaxy - a. Milky Way

2. Irregular galaxy - b. Messier89

3. Spiral galaxy - c. Magellanic Cloud

- A) b c a
- B) a b c
- C) c a b
- D) b a c

18. Andromeda is an example of

- A) Elliptical galaxy
- B) Irregular galaxy
- C) Spiral galaxy
- D) Spherical galaxy

19. _____ Galaxy contains older stars with fewer gases

- A) Elliptical galaxy
- B) Irregular galaxy
- C) Spiral galaxy
- D) Spherical galaxy

20. Consider the following statements about irregular galaxy and find the correct statement

- A) Irregular Galaxies are youthful galaxies
- B) It contains lesser amount of dust and gases.
- C) These gases can make them very light
- D) Andromeda is an example of irregular galaxy.

21. Initially, the universe was saturated only by _____?

- A) Atoms
- B) Light
- C) Stars
- D) Energy

22. _____% of the substances in the universe cannot be seen?

- A) 96 %
- B) 94%
- C) 95%
- D) 98%

23. Consider the following statements find the correct answer

a) Gravitational lensing confirmed the age of the universe and the strength of dark energy.

b) Dark energy is responsible for the accelerating expansion of the universe

- A) a only

- B) b only
C) Both a and b
D) Neither a nor b
24. Saul Perlmutter, Brian Schmidt and Adam Riess won the Nobel Prize in Physics for
A) The explosion of universe before billion years ago
B) The universe is just expanding and picking up speed.
C) Gravitational force of the universe
D) The universe is spherical shape
25. Match the following
a) Constellation - 1. Nearest star to sun
b) Sirius - 2. Nearest star to earth
c) Sun - 3. Group of stars
d) Proxima centauri - 4. Brightest star than sun
A) 3, 4, 2, 1
B) 1, 2, 3, 4
C) 3, 4, 1, 2
D) 4, 3, 2, 1
26. Consider the following statements about star and choose the incorrect answer
1. A star is an astronomical object which has does not have its own light and heat
2. A star changes it's form during its lifetime as neutron star, black hole, dwarf star, red giant star
A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2
27. What is IAU stands for
A) International Astrophysical Unit
B) International Astronomical Unit
C) International Astrological Unit
D) International Aeronautical Unit
28. Consider the following statements and choose the correct answer
1. Constellation is called as group of stars forms a particular shape in the sky.
2. International Astronomical Unit adopted official constellation boundaries that defined 88 constellations
3. Ptolemy in his book almagest listed 48 constellations
A) 1, 2
B) 2, 3
C) 3, 1
D) All the above
29. Almagest is a book by
A) Ptolemy
B) Hubble
C) Lemaitre
D) Immanuel
30. Consider the following statements choose the incorrect answer
1. Ursa Major is a constellation that can be seen in the northern hemisphere and part of the southern hemisphere.
2. Ursa Major means Great Bear in Greek.
A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2
31. Consider the following statements and choose the incorrect answer
1. A solar system consists of a star at the center and the eight planets
2. These planets revolve around the sun in fixed elliptical paths known as 'orbits'.
A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2
32. Most stars host their own _____?
A) Planets
B) Satellites
C) Galaxy
D) None of the above
33. If there are three or more stars in our solar system it is called as
A) Binary star system

B) Tertiary star system

C) Multi star system

D) Neutron star system

34. Choose the incorrect answer

1. Our solar system is located in an inner spiral arm of the vast Milky Way galaxy.

2. Our solar system orbits the center of the Milky Way Galaxy at about 848,000 km/h.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

35. Choose the correct answer

1. Our solar system takes 230 million years to complete one orbit around the galactic center.

2. The solar system have been formed about 3.6 billion years ago

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

36. Kuiper Belt that lies past which planets orbit?

A) Pluto

B) Neptune

C) Uranus

D) Saturn

37. Consider the below statements about Kuiper belt and find the incorrect one

1. Kuiper Belt lies past Neptune's orbit.

2. This is a sparsely occupied ring of icy bodies.

3. This is almost all smaller than the proto star Pluto.

A) 1 only

B) 3 only

C) All the above

D) None of the above

38. Asteroid belt is located between

A) Mars & Jupiter

B) Mars & Venus

C) Jupiter & Saturn

D) Mars & Earth

39. Beyond the fringes of the Kuiper belt _____ is presented?

A) Dwarf star

B) Nebula

C) Oort cloud

D) Proto star

40. Find out the correct statement about Oort cloud

1. The Oort cloud is made up of gaseous particles of space debris.

2. It is orbiting our Sun as far as 1.4 light years away.

3. This shell of material is thick, extending from 1,000 astronomical units to 100,000 astronomical units.

A) 1, 2

B) 2,3

C) All the above

D) None of the above

41. Consider the following statements about astronomical unit, choose the correct answer

1. One astronomical unit (AU) is the distance from the Sun to moon

2. One astronomical unit is 150 million kilometer

A) 1 only

B) 2 only

C) Both 1& 2

D) Neither 1 nor 2

42. There are how many known natural satellites in our solar system?

A) 153

B) 163

C) 160

D) 162

43. Find the planets without satellites

A) Venus and Pluto

B) Mercury and Venus

C) Mercury and Uranus

D) Venus and Mars

44. Which of the following planet has more satellites?

- A) Earth
- B) Mars
- C) Jupiter
- D) Pluto

45. The Sun is at the center of our solar system which is a _____ star,

- A) Proto star
- B) Neutron star
- C) Red giant star
- D) Dwarf star

46. Electric currents in the _____ will generate a magnetic field with the help of solar wind.

- A) Sun
- B) Earth
- C) Kuiper belt
- D) Jupiter

47. Consider the following statements about sun and find the incorrect answer

1. The Sun is made up of about 70.6% hydrogen and 27.4% helium.

2. There are three main layers in the Sun's interior: the core, the radiative zone, and the conductive zone

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

48. _____ is the hottest region of sun

- A) Core
- B) Mantle
- C) Radiative zone
- D) Convective zone

49. Energy is carried outward through radiative layer is carried by _____?

- A) Proton
- B) Electron
- C) Photon
- D) Neutron

50. Find out the correct statement about Sun.

A) Core is the hottest region the nuclear fission reaction takes place to give the sun power

B) The third and final region of the sun is named the conductive zone.

C) Conductive zone is named after the dominant mode of energy flow in this layer.

D) Sun is a yellow dwarf star, with a hot ball of glowing gases.

51. The boundary between the Sun's interior and the solar atmosphere is called?

- A) Chromosphere
- B) Corona
- C) Photosphere
- D) Atmosphere

52. Consider the following statements:

Assertion (A): The lower region of the solar atmosphere is called the chromosphere.

Reason (R): it appears bright red when viewed during a solar eclipse

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

53. Consider the following statements choose the incorrect answer

A) A thin transition region separates the chromospheres from the vast photosphere above.

B) The uppermost portion of the Sun's atmosphere is called the corona

C) Corona is much hotter than the Sun's surface (photosphere)

D) The upper corona gradually turns into the solar wind

54. The Sun has totally how many regions?

- A) Six
- B) Seven
- C) Five
- D) Three

55. Surface temperature of sun is _____?

A) 4000-5000

B) 4500-5500

C) 5500-6000

D) 6000-6500

56. Consider the following statements find the incorrect answer.

1. The core temperature of sun is 13 million degrees Celsius

2. Thermonuclear fission is a process in which atoms combine to form larger atoms

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

57. Consider the following statements find the incorrect answer.

1. In the Sun's core, hydrogen atoms fuse to make helium.

2. In the Sun's core, helium atoms fuse to make hydrogen.

A. 1 only

B. 2 only

C. Both 1 & 2

D. Neither 1 nor 2

58. What is the radius of sun?

A) 665,508 kilometers

B) 685,505 kilometers

C) 695,508 kilometers

D) 659,508 kilometers

59. The Sun's volume would need _____ many Earths to fill it.

A) 1.1 million

B) 1.2 million

C) 1.3 million

D) 1.4 million

60. Consider the following statements find the correct answer

1. Venus is hotter than Mercury

2. Venus has an atmosphere which is thicker

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

61. Consider the following statements find the incorrect answer

A) The Milky Way has four main spiral arms

B) The arms of sun are Norma and Cygnus arm, Sagittarius, Aquila-Crux, and Perseus.

C) The Sun is located in a minor arm, the Sagittarius arm.

D) The Sun orbits the center of the Milky Way Galaxy.

62. Consider the following statements find the correct answer

1. Velocity of solar system 848,000 kilometers per hour.

2. Solar system takes 2300 million years to make one complete orbit around the Milky Way.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

63. Consider the following statements find the incorrect answer

A) The Sun's spin has an axial tilt of 7.25 degrees

B) The Sun is not a solid body different parts of the Sun rotate at different rates.

C) At the equator, the Sun spins around once about every 52 days

D) At its poles the Sun rotates once on its axis every 36 Earth days.

64. The Sun alone accounts for _____% of the mass of the entire solar system.

A) 99.7

B) 99.8

C) 99.5

D) 99.9

65. Scientists predict that in how many years the Sun will last & shrinks down?

A) 5.6 billion

B) 6.5 billion

C) 4.5 billion

D) 6.8 billion

66. Consider the following statements find the incorrect answer

1. The word planet in Persian means 'wanderer'.
2. Planet is the celestial body which has light or heat of its own

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

67. A planet should possess which of the following qualities?

- 1) It should orbit around the sun.
- 2) It should not be a satellite of any planet
- 3) Due to its own mass and self-gravity, it should get a spherical shape and
- 4) Any other celestial body should not cross in its orbit

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

68. Find the incorrectly matched pair

- A) Inner planet - Mercury
- B) Gaseous planet - Venus
- C) Rocky planet - Mars
- D) Giant planet - Jupiter

69. Find out the terrestrial planets

- A) Mars and Venus
- B) Mars and Jupiter
- C) Earth and Saturn
- D) Earth and Uranus

70. Each planet spins on its own axis is called?

- A) Revolution
- B) Rotation
- C) Orbit
- D) Earth day

71. Find the correct statements about Mercury

1. Mercury is the nearest planet to the sun
2. It is the smallest planet in the solar system.
3. It has many satellites.
4. It rotates on its own axis in 54.65 earth days.

5. It takes 88 Earth days to complete one revolution around the sun

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

72. Which is the second hottest planet in the solar system?

- A) Earth
- B) Mercury
- C) Venus
- D) Neptune

73. The sunlight takes _____ minutes to travel from the Sun to Mercury?

- A) 2.3 minutes
- B) 3.6 minutes
- C) 3.2 minutes
- D) 2.2 minutes

74. Consider the following statements:

Assertion (A): Venus is called as Earth's sister

Reason (R): Its size and mass is similar as that of our Earth

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

75. Uranus and which planet have the 'backwards' rotation?

- A) Neptune
- B) Pluto
- C) Venus
- D) Saturn

76. Find the correct statement about Venus

1. It is popularly known as "Morning star and Evening star".
2. It completes one rotation in 243 Earth days.
3. The Venus takes 224.7 Earth days to complete one revolution around the sun,
4. It has no natural satellites

- A) 1, 2, 4
- B) 1, 2, 3, 4
- C) 1, 4, 2

D) None of the above

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

- A) Venus
- B) Mercury
- C) Earth
- D) Neptune

78. ____ is the fifth largest planet in the solar system

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

79. Find out the correct statements

1. The Earth takes 23 hours 56 minutes and 4 seconds for the earth to complete one revolution
2. The Earth takes 365.25 days to complete one rotation around the Sun.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

80. ____ is the densest planet in the solar system?

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

81. Consider the following statements:

Assertion (A): Earth is called as blue planet

Reason (R): Because of presence of thick blue atmosphere

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

82. The sun light takes ____ minutes to reach the earth?

- A. 8.1 minutes
- B. 8.2 minutes
- C. 7.3 minutes
- D. 8.4 minutes

83. Consider the following statements:

Assertion (A): Mars is described as the "Red planet".

Reason (R): It is reddish in Color due to the presence of Aluminum oxide on its surface

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

84. Consider the following statements about mars and find the incorrect answer

1. Mars is the fourth nearest planet to the sun and
2. It is the third smallest planet in the Solar system.
3. It is also described as the "Red planet".
4. The landmass of Mars and Mercury are very similar.

- A) 2, 4
- B) 4, 2, 3
- C) 2, 3
- D) None of the above

85. Except the Earth which planet has is the most hospitable to life

- A) Jupiter
- B) Mars
- C) Saturn
- D) Mercury

86. Find the incorrect statement about Jupiter

- A) Jupiter is the largest planet in the solar system.
- B) It is made primarily of gases and is known as 'Giant Gas planet'.

C) It takes 7 hours 55 minutes to complete one rotation on its axis

D) It takes 11.86 years to complete one revolution

87. Which planet has shortest day in our solar system?

A) Mars

B) Venus

C) Jupiter

D) Mercury

88. Consider the following statements about Jupiter and find the correct answer

1. Jupiter has 63 confirmed satellites orbiting the planet.

2. Ganymede, the satellite of Jupiter.

A. 1 only

B. 2 only

C. Both 1 & 2

D. Neither 1 nor 2

89. Which is the largest natural satellite in the solar system?

A) Phobos

B) Deimos

C) Europa

D) Ganymede

90. Deimos is the satellite of which planet

A) Mars

B) Jupiter

C) Saturn

D) Neptune

91. Which planet's average density is less than water?

A) Mars

B) Jupiter

C) Saturn

D) Neptune

92. Consider the following statements about Saturn and find the correct answer

A) Saturn is the seventh planet from the sun.

B) The largest planet in the solar system.

C) Saturn is called as the Ringed Planet.

D) These rings are mostly made from the chunks of ice and carbon dust.

93. Consider the following statements about Saturn and find the incorrect answer

1. The Saturn has 35 rings.

2. It has 63 confirmed natural satellites.

3. The Saturn takes 10 hours 34 minutes to complete one revolution.

4. It takes 29.4 years to complete one rotation around the sun.

A) 1, 2

B) 1, 3, 4

C) All the above

D) None of the above

94. Which of the following planet does not have rings around it?

A) Mars

B) Jupiter

C) Saturn

D) Uranus

95. Which of the following is not a major gas in Uranus?

A) Hydrogen

B) Helium

C) Methane

D) Nitrogen

96. Consider the following statements about Uranus

Assertion (A): Uranus is named after the ancient Greek god of the sky. It has a dense atmosphere primarily consisting of methane.

Reason (R): It has a dense atmosphere primarily consisting of methane.

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

97. Consider the following statements about Uranus and find the incorrect answer

1. Uranus is visible to the naked eye.
2. Like Venus, Uranus also rotates on its axis from west to east.
3. Uranus is inclined on its axis at an angle of 96 degrees.
4. Uranus also has rings and twenty-six satellites.

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

98. Which planet in our solar system's windiest planet?

- A) Mars
B) Jupiter
C) Saturn
D) Neptune

99. Consider the following statements about Neptune find the incorrect one

1. It is the second coldest planet in the Solar System.
2. It is the farthest planet from the Sun.

- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2

100. Find the correct statement about Neptune

- A) It is the eighth planet from the sun.
B) It takes 18 hours to complete one rotation.
C) It takes nearly 155 years to revolve around the sun.
D) It has 15 natural satellites, it has 3 rings

101. _____ was the first planet located through mathematical calculations?

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

102. North Pole of which planet experiences 21 years of night time in winter?

- A) Saturn
B) Pluto

C) Neptune

D) Uranus

103. The planet which does not have its own axis for rotation is called

- A) Comets
B) Dwarf planets
C) Ringed planets
D) Jovian planets

104. Consider the following statements and find the incorrect answer

1. Dwarf Planet should be a satellite of any planet.
2. Pluto is officially demoted in 2005 from its ninth position as a planet.

- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2

105. Which is not the dwarf planet?

- A) Ceres
B) Heumea
C) Makemake
D) Io

106. Consider the following statements find the incorrect one

1. The word 'Satellite' means companion.
2. The moon was the only known satellite in the Solar System until 1910.

- A) 1 only
B) 2 only
C) Both 1 & 2
D) Neither 1 nor 2

107. Find out the correct statement about satellite

- A) The satellites move around a planet from east to west.
B) They do have own light and reflect it
C) They have no atmosphere and water.
D) Mercury has only one satellite.

108. Which planet can float on water?

- A) Saturn
B) Pluto

C) Neptune

D) Uranus

109. The moon is the _____ largest natural satellite in the solar system?

A) Fourth

B) Second

C) Fifth

D) Sixth

110. Consider the following statements:

Assertion (A): The observers on the earth could see only one side of the moon.

Reason (R): The moon is located at a distance of 8, 84,401 km from the earth.

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

111. Consider the following statements about moon and find the correct statement

1. The moon was likely to be formed after a Mars sized body collided with Earth.

2. The light which is reflected by the Moon will reach the Earth in just one and a quarter seconds.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

112. Consider the following statements about Apollo 2 find the correct answer

1. Apollo 11 was the first manned mission to land on the Moon

2. It was sent by NASA.

3. Two American Astronauts Neil Armstrong and Edwin Aldrin set foot on the moon's surface.

A. 1, 2

B. 1, 3

C. 2, 3

D. 1, 2, 3

113. Man weighs _____ times less on the moon than the earth?

A) 5 times

B) 6 times

C) 7 times

D) 8 times

114. Consider the following statements find the incorrect one

1. Asteroids are larger rocky celestial bodies that revolve around the Sun.

2. Asteroid is also called 'Major Planets'.

3. Larger asteroids are called Comets.

A) 3 only

B) 2, 3

C) 1, 3

D) 1, 2, 3

115. Asteroids are found in between the planets of _____?

A. Mars and Jupiter

B. Mars and Earth

C. Mars and Venus

D. Jupiter and Saturn

116. Consider the following statements about comets and find the correct answer.

A) The word Comet is derived from the Latin word Aster Kometes.

B) Comets mean 'Long Haired Star'.

C) They are made up of small rocks

D) They revolve around the Sun in regular orbit.

117. Consider the statements find the incorrect statement

1. Comets get very close to the sun is called Aphelion.

2. Comets go far away from the sun is called Perihelion.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

118. The best known Comet, Halley's Comet, appears once in every _____ years?

A) 75

B) 74

C) 73

D) 76

119. Consider the following statements and find the correct answer

1. It is the only moon with clouds and atmosphere.

2. It is Saturn's largest moon

3. It is the second largest moon in the solar system

A) Triton

B) Tethys

C) Titania

D) Titan

120. Titan was discovered by?

A) William Hubble

B) W. C. Pant

C) Christiaan Huygens

D) Anaximander

121. Find out incorrect statement about titan

1. Diameter of titan is 5,150 kilometers.

2. Surface temperature of titan is -179 degrees Celsius.

3. Surface pressure is slightly higher than Earth's pressure.

A. 1, 2

B. 2, 3

C. All the above

D. None of the above

122. Consider the following statements find the incorrect one

A) Earth's pressure at sea level is 1 bars

B) Titan's pressure at sea level is 1.6 bars.

C) Titan's mass is composed mainly of water.

D) Titan has magnetic field.

123. 'Shooting stars' are the removed pieces of rocks mainly from_____?

A) Kuiper belt

B) Asteroid belt

C) Oort cloud

D) Nebula

124. Consider the following statements, find the correct statements

1. Asteroids are called Meteors before they enter into our atmosphere.

2. After entering into our atmosphere they are called as Meteorites

3. The large unburned pieces of rocks that fall on the earth are called Meteoroids.

A) 1, 2

B) 1, 3

C) All the above

D) None of the above

125. Consider the following statements find the incorrect one

1. Meteoroids are called as 'shooting stars'.

2. Meteor crater in Southern Arizona.

3. Lake Lonar in Buldhana District

A) 2 only

B) 3, 1

C) 2, 3, 1

D) 1, 2

126. Which of the following is propounded by Anaximander?

A) Cylindrical earth was surrounded by celestial sphere.

B) Spherical earth was surrounded by celestial sphere.

C) Elliptical earth was surrounded by celestial sphere.

D) Spiral earth was surrounded by celestial sphere

127. Who said that the Earth was a sphere, which was considered the most harmonious geometric shape

A) Anaximander

B) Aristotle

C) Pythagoras

D) Hubble

128. Consider the following statements find the correct answer

1. Aristotle described observations that supported the theory that the Earth was a sphere.

2. Eratosthenes estimated size of earth

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

129. Which observations of the following suggested that the Earth is a sphere?

- 1) Mountain peaks lit by the Sun after sunset.
- 2) Ships disappear below the horizon as they sail across ocean.
- 3) The moon looks like an arc.
- 4) The Earth casts an elliptical shadow during lunar eclipses.

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

130. Consider the following statements and find the incorrect one

- 1. The bulge at the equator is caused by the centrifugal force of the Earth's rotation.
- 2. The gravitational pull of the earth is the weaker at the flattened poles & stronger towards the equator

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

131. What will happen if the Earth would not have been tilted on its axis?

- A) Same duration of days and nights
- B) Days will be longer than nights
- C) Nights will be longer than days
- D) No changes

132. What is galactic movement?

- A) Planets revolving in an orbit around the sun
- B) Satellites revolving in an orbit around their planets

C) Movement of solar system in an orbit around the center of the Milky Way Galaxy

D) None of the above

133. Find out the correct statement

- A) The spinning of the earth around its axis is called the revolution of the earth.
- B) The axis is the imaginary line passing through the center of the earth
- C) The earth completes one revolution in 23 hours, 56 minutes and 4.09 seconds.
- D) It rotates in a westward direction opposite to the apparent movement of the sun

134. Find out the incorrect statements

- 1. The earth's axis is inclined at an angle of $66\frac{1}{2}$ degree to the orbital plane.
- 2. The earth's axis is tilted at an angle of $23\frac{1}{2}$ degree from a perpendicular to the spherical plane

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

135. Consider the following statements about earth and find the incorrect statement

- A) The velocity of earth's rotation varies.
- B) Rotational velocity at the poles is nearly zero.
- C) The greatest velocity of the rotation is found at the equator.
- D) The velocity of rotation at the equator is 1,170 km per hour.

136. The rotation of the earth causes which the following effects?

- 1) Alternate occurrence of day and night
- 2) Difference in time between different places on the earth
- 3) Deflection of the winds
- 4) The sun, moon, planets and stars appear to rise in the east and set in the west.

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

137. Difference of ____minutes for every degree of longitude that passes the sun?

- A) 4 minutes
- B) 3 minutes
- C) 4.6 minutes
- D) 5 minutes

138. The line around the earth separating the light and dark is known as?

- A) Latitude
- B) Longitude
- C) Illumination
- D) Circle of illumination

139. Consider the following statements

Assertion (A): About January 3rd the earth is closest to the sun and it is said to be at Perihelion

Reason (R): 'Peri' means close to and Helios means sun

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

140. Consider the following statements, choose the correct statements

1. Around July 6th the earth is farthest from the sun and it is said to be at.

2. At Aphelion the distance of the earth is 156 million km away from the sun.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

141. Find the correct statements

1) The movement of the earth in its orbit around the sun in a clockwise direction.

2) The period taken by the earth for one revolution around the sun is 365 days 365¼ days.

3) The speed of the revolution is 107000 km per hour.

4) The speed is 40 km per second.

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

142. Which is known as "Morning star and Evening star"?

- A) Mars
- B) Venus
- C) Jupiter
- D) Saturn

143. Consider the following statements:

Assertion (A): The month of February has 29 days in a leap year.

Reason (R): To keep our yearly calendars consistent with our orbit around the Sun once in, every four years we add one day.

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

144. What are the effects of revolution of the earth?

- 1) Cycle of seasons
 - 2) Variation in length of days and nights
 - 3) Variation in distribution of solar energy over the earth and the temperature zones
- A. 1 only
 - B. 1, 2
 - C. 2, 3
 - D. 1, 2, 3

145. Consider the following statements find the incorrect answer

1. The seasons are caused due to the earth's revolution

2. The seasons are caused due to the tilt of its axis in the same direction throughout the year.

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

146. Find out the correct statement

- A) The sun appears to follow a yearly pattern of eastward and southward motion in the sky, known as the 'apparent movement of the sun
- B) The sun appears to follow a yearly pattern of northward and westward motion in the sky, known as the 'apparent movement of the sun
- C) The sun appears to follow a yearly pattern of northward and southward motion in the sky, known as the 'apparent movement of the sun
- D) The sun appears to follow a yearly pattern of northward and westward motion in the sky, known as the 'apparent movement of the sun

147. On which day the sun rises precisely in the east and sets exactly in the west?

- 1) 21 March
- 2) 22 September
- 3) 24 March
- 4) 23 September

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

148. Match the following

- a) Autumnal equinox - 1. June 21
- b) Summer solstice - 2. March 21
- c) Spring equinox - 3. December 22
- d) Winter solstice - 4. September 23

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

149. Consider the following statements about summer solstice, find correct answer

- A) The North Pole is inclined or tilted towards the sun.
- B) The North Pole experiences complete dark for 24 hours.

C) The rays of the sun fall vertically at the tropic of Capricorn ($23\frac{1}{2}^{\circ}$ S).

D) The day 22 June is known as summer solstice
150. Consider the following statements about winter solstice, find incorrect answer

- 1) The southern hemisphere has winter.
- 2) The northern hemisphere has summer.
- 3) The day 22 December is winter solstice
- 4) In the northern hemisphere the nights are longer than the days at this time

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

151. Consider the statements, find the correct answer

- 1) Neither pole is inclined towards the sun.
- 2) The rays of the sun fall vertically on the equator.
- 3) All the places have equal days and nights as both the poles receive the rays of the sun.
- 4) It is spring in the northern hemisphere and autumn in the southern hemisphere.
- 5) This day is known as spring equinox.

- A) 22 March
- B) 21 March
- C) 22 September
- D) 23 September

152. Consider the statements, find the correct answer

- 1) The rays of the sun fall vertically on the equator.
- 2) All the places have equal days and nights.
- 3) It is autumn in the northern hemisphere and spring in the southern hemisphere.
- 4) This day (23 September) when sun's rays fall vertically on the equator

- A) Summer solstice
- B) Winter solstice
- C) Autumn equinox
- D) Spring equinox

153. Which is a complete or partial obscuration of light from a celestial body?

- A) Comets
- B) Clouds
- C) Eclipse
- D) Galaxy

154. Find out the correct statement about solar eclipse?

1. It occurs on New Moon days, when the sun is between the Moon and the Earth.

2. It can be seen from all part of the world

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

155. Find out the incorrectly matched pair

1. Partial solar eclipse - Moon partially covers the disc of the sun.

2. Annular solar eclipse - Moon passes centrally across the solar disc.

3. Total solar eclipse - Moon's shadow is short enough to cover the whole sun.

- A) 1, 2
- B) 2, 3
- C) All the above
- D) None of the above

156. Which is called as diamond ring?

- A) Partial solar eclipse
- B) Annular solar eclipse
- C) Total solar eclipse
- D) None of the above

157. Find out the correct statement about lunar eclipse

1. It last for a full day

2. The earth's shadow obscures the moon as viewed from the earth

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

158. Find the incorrect statement

1. Partial lunar eclipse is when only a part of the moon's surface is obscured by earth's umbra.

2. Total lunar eclipse occurs happens when the moon travels through the faint penumbral portion of the earth's shadow.

3. Penumbral lunar eclipse occurs when the earth umbra obscures the entire the moon's surface

- A) 1 only
- B) 2, 3 only
- C) 1, 2, 3
- D) None of the above

159. When lunar eclipse occurs?

- A) Full moon day
- B) New moon day
- C) Partial moon day
- D) All the above

160. Find out the correct statement

1. Spinning of the earth from east to west on its axis is called rotation

2. Movement of the earth around the sun in spherical orbit is called as revolution

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

161. Find out the incorrect statement about phases of the moon

1) Phases of the moon start from the 'New Moon' every month.

2) Only a part of the Moon is seen bright called 'Gibbous', which develops into the 'first quarter'.

3) With the increasing brightness gibbous turns into three quarters known as 'Crescent'.

4) Then crescent becomes a 'Full Moon'.

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

162. The seasonal variations in the duration of daylight is maximum at _____.

- A) Equator

B) Polar

C) Tropic of cancer

D) Tropic of Capricorn

163. Which of the following are the effects of the spherical shape of the earth?

1. Variation in the amount of solar radiation received

2. Difference in the angle of the sun's rays striking different parts of the earth.

A) 1 only

B) 2 only

C) Both 1 and 2

D) Neither 1 nor 2

164. Find out the incorrect statements

1. As we move north or south of latitudes, the sun's rays strike at increasing angles.

2. On any given day only the places located at particular latitude receive perpendicular rays from the sun

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

165. The world has been divided into _____ distinct heat zones?

A) 3

B) 4

C) 2

D) 5

166. Find out the incorrect statement

1. In 15th century, the people started using pendulum clock.

2. Later chronometer was invented in 1664.

A) 1 only

B) 2 only

C) Both 1 & 2

D) Neither 1 nor 2

167. Earth was divided into how many time zones?

A) 22

B) 24

C) 23

D) 25

168. 'The Daylight Saving Time' (DST) countries are?

1. Europe

2. North America

3. Australia

4. South America

5. Asia

A) 1, 2, 3, 4, 5

B) 2, 3, 4, 5

C) 1, 3, 4, 5

D) 1, 2, 3, 4

169. Find the correct statements about latitudes

1. Latitude lines are drawn east – west.

2. They measure the location in northern and southern hemisphere.

3. The line starts at the equator and measure distance from 0 degrees to 90 degrees north and also 0 degrees to 90 degrees south.

4. They also become shorter farther away from the equator.

A) 1, 2, 3

B) 1, 2, 3, 4

C) 1, 3, 4

D) 2, 3, 4

170. Find the incorrect statement about longitude

A) Longitude lines are drawn north – south.

B) They measure eastern and western hemisphere.

C) They start at the Prime Meridian and measure from 0 degrees to 180 degrees south and 180 degrees north

D) Unlike lines of latitude, these lines are fairly equal in length.

171. The intersection of 0 degree latitude and 0 degree longitude at

A) Atlantic ocean

B) Arctic ocean

C) Pacific ocean

D) Southern ocean

172. International Date Line is placed exactly on?

- A) Atlantic ocean
- B) Arctic ocean
- C) Pacific ocean
- D) Southern ocean

173. Third quarter of moon's phase is known as _____?

- A. Gibbous
- B. Penumbra
- C. Crescent
- D. None of the above

174. Find out the incorrect statement

- 1. An electric storm on the sun and releases huge amounts of gases is called solar flare
- 2. The explosive born of a star is called super nova

- A) 1 only
- B) 2 only
- C) Both 1 & 2
- D) Neither 1 nor 2

175. Match the following

Planet - Rotation

- 1. Mars - a) 9 hours 55 minutes
- 2. Jupiter - b) 24 hours 37 minutes
- 3. Saturn - c) 16 hours
- 4. Neptune - d) 10 hours 34 minutes

- A) b, a, d, c
- B) b, a, c, d
- C) a, b, c, d
- D) a, d, d, c