



BIOLOGY

BOOKS - AGRAWAL EXAM CART BIHAR

SOLAR SYSTEM (STARS AND CONSTELLATIONS)

Jnv Previous Years 2007 2020 Question

1. Planet Venus is also known as ----- .

A. Pole star

B. Morning star

C. Star Sirius

D. Jupiter

Answer:



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2. A star is fifteen light years away from earth.

The light emitted by it today will be seen after
years.

A. 5

B. 10

C. 15

D. 30

Answer:



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3. The outermost layer of earth is called

A. inner core

B. crust

C. mantle

D. outer core

Answer:



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4. The planet Venus appears in the eastern sky before sunrise

A. Eastern

B. Western

C. Northern

D. Southern

Answer:



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5. Hari saw full moon on a particular day. After days he will be able to see full moon again.

A. 15

B. 20

C. 29

D. 30

Answer:



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6. How much time is taken by sunlight to reach to the earth from sun ?

A. 4 Minute

B. 6 Minute

C. 8 Minute

D. 10 Minute

Answer:



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7. The main resource of energy on Earth is :

A. Sun

B. Air

C. Water

D. Petrol

Answer:



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8. Which of the following is not an option source of energy ?

A. Air

B. Water

C. CNG

D. Sun

Answer:



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9. Who had first of all given the information related to Blackhole?

A. Herman Bondie

B. Rutherford

C. Einstein

D. Copernicus

Answer:



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10. What is the reason of getting continuous heat and light from Sun?

A. The fission of hydrogen

B. The fission of Helium

C. The fusion of Hydrogen

D. The fusion of Helium

Answer:



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Important Questions

1. Our universe is expanding. This speculation is propounded by:

A. Newton

B. Galileo

C. Edwin Hubble

D. Copernicus

Answer: C



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2. Which one among the following stars is nearest to the earth?

A. Polestar

B. Comet

C. Sun

D. Ateroid

Answer: C



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3. The distance between the sun and the Earth

is:

A. $1.49 \times 10^{10^2}$ km

B. 1.49×10^8 km

C. 2×10^{20} km

D. 7.46×10^{23} km

Answer: B



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4. The moon completes one revolution around Earth in:

A. 27 days 7 hrs 43 min

B. 29 days 3 hrs 20 min

C. 20 days 2 hrs 10 min

D. 10 days 4 hrs 5 min

Answer: A



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5. Which year man firstly landed on the Moon?

A. 1963

B. 1965

C. 1969

D. 1972

Answer: C



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6. What portion of the moon is visible from the Earth's surface?

A. 0.57

B. 0.34

C. 0.2

D. 0.41

Answer: A



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7. The area of the moon's surface where there is no evidence of the water is called :

A. ocean of storms

B. areas of storms

C. smoke of stomas

D. None of these

Answer: A



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8. The calm and dark back part of the moon is called

A. sea of tranquility

B. oceans of storms

C. Both (A) and (B)

D. None of these

Answer: A



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9. Which of the following statement is correct?

A. Moon is the only natural satellite of
Earth

B. The time period of the moon is approx

27.3 days

C. The time period of moon is roughly

equal to the rotational period of moon

about its own axis

D. All of the above

Answer: D



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10. Aakash Ganga is the common name give to:

A. Milky way galaxy

B. galaxy

C. planet Uranus

D. Earth

Answer: A



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11. The smallest planet in the solar system is:

A. Earth

B. Jupiter

C. Venus

D. Mercury

Answer: D



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12. Which of planets is known as "outer planets'?

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

Answer: D



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13. The small groups of planetary pieces which are confined and revolving between Mars and Jupiter are called:

A. meteors

B. comet

C. celestial bodies

D. asteroids

Answer: D



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14. The Earth has the size among all the planets:

A. fifth

B. third

C. fourth

D. seventh

Answer: A



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15. The planet whose relevancy as a planet has been ended at Prague Summit of IAU in:

A. Uranus

B. Pluto

C. Mars

D. Neptune

Answer: B



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16. The planet which has the largest number of satellites is:

A. Saturn

B. Jupiter

C. Mars

D. Neptune

Answer: B



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17. The planet which completes one revolution in 88 days around the sun is:

A. Mercury

B. Venus

C. Mars

D. Saturn

Answer: A



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18. The largest satellite of the planet Saturn is:

A. Atlas

B. Titan

C. Tethis

D. None of these

Answer: B



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19. Which of the following are true?

- A. A polar satellite goes around the Earth's pole in North-South direction
- B. A geostationary satellite goes around the Earth in East-West direction
- C. A geostationary satellite goes around the Earth in West-East direction
- D. Both (A) and (C)

Answer: D



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20. From the space the sky appears to an astronaut

A. blue

B. red

C. white

D. black

Answer: D



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21. suggested that Sun was at the center of our solar system and all the planets revolve around it and is also called the "father of Modern Astronomy

A. Plato

B. Copernicus

C. Ptolemy

D. Galileo

Answer: B



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22. Who discovered the laws of planetary motion ?

A. Newton

B. Galileo

C. Kepler

D. Copernicus

Answer: C



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23. Which comet appears after every 76 years?

A. Halley comet

B. Braille comet

C. Both

D. None of these

Answer: A



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24. The sun consists of about.....% of the mass of solar family,

A. 85

B. 89

C. 94

D. 99

Answer: D



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25. The surface temperature of the Sun is about

A. $5000^{\circ}C$

B. $5000K$

C. $6000^{\circ}C$

D. $6000K$

Answer: D



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26. The sun rise in the west on:

A. Mercury

B. Mars

C. Pluto

D. Venus

Answer: D



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27. is not a Jovian planet.

A. Earth

B. Jupiter

C. Saturn

D. Neptune

Answer: A



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28. There are beautiful rings around Saturn.

A. 2

B. 4

C. 3

D. 5

Answer: B



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29. Triton and Nereid are moons of the planet :

A. Neptune

B. Mars

C. Herschel

D. Pluto

Answer: A



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30. Is the largest asteroid.

A. Ceres

B. Vesta

C. Sirius

D. Viesta

Answer: A



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31. During which period are meteors seen in maximum number?

A. January to March

B. April to June

C. August to November

D. November to February

Answer: C



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32. The tail of a comet is the longest when:

A. It is nearest to the Sun

B. It is farthest from the sun

C. It is far from the earth

D. It is near Saturn

Answer: A



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33. What is the period of revolution of Halley's comet?

A. 72 years

B. 76 years

C. 82 years

D. 86 years

Answer: B



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34. The stars appearing have highest temperature.

A. red

B. blue

C. yellow

D. white

Answer: B



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35. The stars appearing have lowest surface temperature.

A. red

B. blue

C. yellow

D. white

Answer: A



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36. The moon undergoes an angular displacement of..... in 1 day.

A. 30°

B. $20^{\circ} 40^{\circ}$

C. $15^{\circ} 45$

D. $13^{\circ} 20$

Answer: D



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37. Sun rises minutes than the time of its rise the previous day.

A. 4, earlier

B. 4, later

C. 8.5, earlier

D. 8.5, later

Answer: A



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38. What is the diameter of Milky way?

A. 1000 light year

B. 10000 light year

C. 100000 light year

D. 100000 km

Answer: C



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39. 1 light year = Km.

A. 9.46×10^{11}

B. 9.46×10^{12}

C. 4.96×10^{11}

D. 4.96×10^{12}

Answer: B



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40. Who showed that the galaxies recede away from one another ?

A. Plato

B. Kepler

C. Edwin Hubble

D. Albert Einstein

Answer: C



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41. What is the approximate age of universe according to Big-bang theory ?

A. 137 million years

B. 137 billion years

C. 13.7 million years

D. 13.7 billion years

Answer: D



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42. A rocket works on the principle of:

- A. Newton's first law of motion
- B. Newton's second law of motion
- C. Newton's third law of motion
- D. First law of thermodynamics

Answer: C



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43. Which planet is known as the red planet?

A. Jupiter

B. Neptune

C. Earth

D. Mars

Answer: D



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44. At what height do booster rockets get detached from the space-shuttle?

A. 45 km

B. 100 km

C. 300 km

D. 1000 km

Answer: A



45. The minimum velocity required for a satellite to remain in its orbit is:

- A. 8 km/s
- B. 8 km/h
- C. 800 km/h
- D. 800 m/s

Answer: A



46. Remotesensing satellite of India visits any location on the earth at the interval of..... days.

A. 18

B. 19

C. 20

D. 21

Answer: D



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47. Which is the series of satellites used by India for astronomical observation?

A. Agni

B. Rohini

C. INSAT

D. Vijay

Answer: B



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48. Which planet has maximum number of satellites?

A. Mercury

B. Jupiter

C. Venus

D. Saturn

Answer: B



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49. Spring Tides occur:

- A. at new moon and first quarter moon
- B. at first quarter and third quarter moons
- C. at new moon and full moon
- D. at third quarter and full moons

Answer: C



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50. Biggest Comet known to man is:

A. Halley

B. Vega

C. Capella

D. Kohoutek

Answer: D



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51. The best evidence that Earth spins on its axis is provided by:

A. variations in atmospheric density

B. apparent shifts in the swing of a Foucault pendulum

C. changes in the position of sunspots on the Sun

D. eclipses of the Moon

Answer: C



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52. Speed of light is equal to:

A. $2 \times 10^8 \text{ms}^{-1}$

B. $1.5 \times 10^8 \text{ms}^{-1}$

C. $3 \times 10^8 \text{ms}^{-1}$

D. $4 \times 10^8 \text{ms}^{-1}$

Answer: C



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53. Group of stars arranged in some recognizable shapes or pattern are called:

A. milkyway

B. galaxy

C. protostar

D. constellations

Answer: D



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54. Milky way is

A. spiral galaxy

B. elliptical galaxy

C. irregular

D. none of these

Answer: A



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55. The brightest star in the sky:

A. Sirius (Dog Star)

B. Canopus

C. Vega

D. Capella

Answer: A



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56. Ursa minor is also known as:

A. Caniopeia

B. Pole star

C. Globular star cluster

D. Little bear

Answer: D



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57. Name the gases from which a star is formed.

A. Hydrogen

B. Helium

C. Both (A) and (B)

D. None of these

Answer: C



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58. Which stage comes earlier in the life of a star?

A. Protostar

B. Neutron

C. Supernova

D. Nebula

Answer: D



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59. Planetesimals came from the region of which of the following inner planets.

A. Jupiter, Earth, Venus and Mars

B. Jupiter, Venus, Mercury and Pluto

C. Mercury, Venus, Earth and Mars

D. None of the above

Answer: C



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60. The planets which are called outer planets are:

A. Jupiter, Saturn, Mars and Neptune

B. Jupiter, Saturn, Uranus and Mercury

C. Jupiter, Saturn, Uranus and Neptune

D. Venus, Saturn, Uranus and Neptune

Answer: C



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61. Between which two planets are asteroids located ?

A. Mars and Jupiter

B. 'Pluto and Jupiter

C. Earth and Mars

D. Mercury and Jupiter

Answer: A



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62. If a star is 20 times heavier than the sun, what will it be in future?

A. A white dwarf

B. Supernova

C. Red giant star

D. None of these

Answer: B



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63. Which of the following does not emit light?

A. Protostar

B. Sun

C. Supernova

D. White dwarf

Answer: A



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64. The spinning neutron is known as:

A. Pulsar

B. Protostar

C. Black hole

D. White dwarf

Answer: A



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65. The 'Sea of Showers' and 'Sea of Tranquility'

is in:

A. Moon

B. Sun

C. Venus

D. Orion

Answer: A



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66. The first Astronomical Telescope was invented by:

A. Copernicus

B. Galileo

C. Halley

D. Newton

Answer: B



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67. The number of stars in our solar system is :

A. 9

B. 5

C. more than 9

D. 1

Answer: D



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68. Pole star is a part of the constellation:

A. Orion

B. Ursa major

C. Ursa minor

D. Scorpio

Answer: C



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69. Which planet is known as blue planet?

A. Jupiter

B. Neptune

C. Earth

D. Mars

Answer: C



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70. A solar eclipse that occurs when the moon's umbra reaches Earth's surface is! called:

- A. a total solar eclipse
- B. a partial solar eclipse
- C. an annular solar eclipse
- D. a penumbral solar eclipse

Answer: A



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71. A totally eclipsed moon glows coppery! red because because:

A. the moon's surface is made of it ore which is red in colour

B. red light is cooler than blue light

C. during a lunar eclipse the sun cooler than normal and its light more red

D. only red light is able to pass completely through Earth atmosphere and reach

the moon.

Answer: D



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72. Total lunar eclipses always occur:

- A. at the time of new moon
- B. at the time of full moon
- C. during either equinox
- D. during either solstice

Answer: B



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73. During a total lunar eclipse, which of the following are true?

I. The photosphere of the sun obscured by the moon.

II. The moon is in Earth's umbra

III. The moon is new

IV. The moon is full

A. I,III

B. II,IV

C. I,II,III

D. II,III

Answer: B



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74. The of the moon is the period time for the moon to complete a cycle the lunar phases and is approximate 29.5 days long.

A. sidercal period

B. saros cycle

C. synodic period

D. eclipse season

Answer: C



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75. The planet known as the "Earth's Twin is:

A. Jupiter

B. Saturn

C. Venus

D. More

Answer: C



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76. All the planets move around the sun in

A. circular path

B. rectangular path

C. elongated elliptical path

D. none of the above

Answer: C



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77. Planet that reflects highest percentage of light:

A. Mars

B. Mercury

C. Venus

D. Earth

Answer: C



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78. The largest moon in solar system is of

Saturn:

A. Titan

B. Earth's Moon

C. Ceres

D. Sirius

Answer: A



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79. Planet referred as Morning Star and

Evening Stars:

A. Venus

B. Mercury

C. Neptune

D. Uranus

Answer: A



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80. The visible part of the Sun is called:

A. Photosphere

B. Biosphere

C. Solarsphere

D. Halosphere

Answer: A



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81. Name the natural object which is located outside of Earth atmosphere such as planet and moon.

A. Terrestrial object

B. Celestial object

C. Both of these

D. None of these

Answer: A



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

A. Earth

B. Uranus

C. Neptune

D. Venus

Answer: D



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83. The study of celestial objects and associated phenomena is called :

A. Astrology

B. Astronomy

C. Both of these

D. None of these

Answer: B



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84. Which is the nearest planet to the sun ?

A. Earth

B. Uranus

C. Mercury

D. Venus

Answer: C



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85. The stars forming a group that has a recognisable shape is called :

A. Constellation

B. Milky way

C. Universe

D. None of these

Answer: A



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86. On which planet life exists ?

A. Venus

B. Uranus

C. Mercury

D. Earth

Answer: D



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87. The Saptarishi is also known as:

A. The great bear

B. Ursa major

C. The Big Dipper

D. All of them

Answer: D



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88. Which is the farthest planet of the solar system ?

A. Jupiter

B. Neptune

C. Earth

D. Mars

Answer: B



89. The gap between consecutive new moon day and full moon day is :

- A. 7 days
- B. 15 days
- C. 21 days
- D. 28 days

Answer: B



90. Which is the largest planet in the solar system ?

A. Jupiter

B. Neptune

C. Earth

D. Mars

Answer: A



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91. Name the well-known constellation that can be seen during winter in the late evenings.

A. Cassiopeia

B. Orion

C. Sirius

D. None of these

Answer: B



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92. Which is the brightest star in the sky ?

A. Cassiopeia

B. Orion

C. Sirius

D. None of these

Answer: C



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93. Name the constellation which looks like a distorted letter W or M.

A. Cassiopeia

B. Orion

C. Sirius

D. None of these

Answer: A



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94. Name the definite path where planet revolves around the sun,

A. Solar system

B. Orbit

C. Sub orbit

D. None of these

Answer: B



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95. Small rocky objects found in large numbers between Mars and Jupiter are called :

- A. Comets
- B. Constellation
- C. Asteroid
- D. None of these

Answer: C



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96. Which planet is known as morning or evening star?

A. Jupiter

B. Neptune

C. Earth

D. Venus

Answer: D



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