

Universe

1. Which of the following is the largest natural satellite in our solar system?
(a) Triton
(b) Callisto
(c) Ganymede
(d) Titania
2. Saturn is the second largest planet in our solar system. It is a gas giant with an average radius of about nine times that of Earth. The atmosphere of Saturn is mainly composed of
(a) Oxygen and nitrogen
(b) Helium and oxygen
(c) Hydrogen and helium
(d) Hydrogen and nitrogen
3. Each planet in the solar system has seasons. On which of the following planets the length of each season is of about 3 years?
(a) Venus
(b) Saturn
(c) Neptune
(d) Jupiter
4. Which among the following is the nearest major galaxy to the Milky Way?
(a) IC 1101
(b) Andromeda
(c) NGC 262
(d) None of these
5. Constellations are a group of stars that form a particular shape in the sky. Each of them has been given a specific name. Which organisation is responsible for naming constellations?
(a) Federation of Astronomical Societies
(b) NASA
(c) The International Astronomical Union
(d) ISRO
6. Who among the following holds a world record for the most spacewalks, 16, and to spend more than 82 hours outside in space?



(a) Alexey Leonov



(b) Edward Higgins White



(c) Anatoly Solovyev



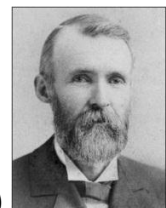
(d) John Glenn

7. A space probe is a robotic spacecraft that leaves Earth's orbit and explores space. Which among the following was the first space probe to maintain orbit around another planet?
(a) Mariner 10
(b) Mars 3
(c) Mariner 9
(d) Sojourner

8. NASA's new spacecraft for astronauts will carry astronauts into deep space and then return them home to Earth. It will be able to travel to an asteroid or even Mars. Which spacecraft are we talking about?
 (a) Soyuz (b) Orion
 (c) Voyager 1 (d) Chang'e 2
9. The solid core structure of a comet is known as the nucleus. The nucleus of a comet is composed of an amalgamation of rock, dust, water, ice and many frozen gases. Which of the following gases is the nucleus of a comet composed of?
 (a) Carbon dioxide only
 (b) Carbon monoxide and methane only
 (c) Ammonia and methane only
 (d) Carbon dioxide, carbon monoxide, methane and ammonia
10. Stars are enormous spheres of ignited gas that light the cosmos. They come in many different types and sizes. Which among the following is not a known type of stars?
 (a) White dwarf (b) Red giant
 (c) Green dwarf (d) None of these
11. Proxima Centauri, the closest star to Earth after sun is a type of _____.
 (a) Red dwarf stars (b) Brown dwarf stars
 (c) Blue giant stars (d) Yellow dwarf stars
12. Which of the following statements is incorrect about Milky Way?
 (a) 90% of its mass consist of dark matter which is not visible to us.
 (b) Milky way is made up of dust and gas.
 (c) The centre of our galaxy is called Sagittarius A
 (d) None of these
13. LRO is a robotic spacecraft that is orbiting the moon. It is taking pictures and gathering information about the moon's surface. What does LRO stands for?
 (a) Lunar Reconnaissance Orbiter
 (b) Lunar Recording Object
 (c) Lunar Recreating Orbiter
 (d) Lunar Reconnaissance Object
14. Pluto is having five known moons. Charon is its largest moon having
 (a) Size half the size of Pluto
 (b) Size one-third the size of Pluto
 (c) Size one-fourth the size of Pluto
 (d) Size double than the size of Pluto
15. It is the largest explosion of stars that takes place in space. It is difficult to see in our own Milky Way galaxy due to dust which blocks our view. It was last discovered by Johannes Kepler in 1604. What are we talking about?
 (a) Black hole (b) Supernova
 (c) Star explosion (d) None of these
16. Which of the following statements is incorrect about Jupiter?
 (a) The great red spot is a giant spinning storm present in Jupiter which resembles a hurricane.
 (b) The atmosphere of Jupiter is made up of hydrogen and helium gas.
 (c) Jupiter has seven thick rings
 (d) Both B and C
17. The 'Meteor Crater' is a huge hole in the middle of the desert outside Flagstaff, Arizona. Who among the following first suggested that it was produced by a meteorite impact?



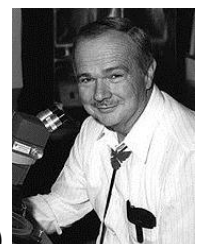
(a) Daniel Barringer



(b) Albert E. Foote



(c) Grove Karl Gilbert



(d) Eugene M. Shoemaker

- 18.** Robonaut is a NASA robot designed to be humanoid, which means it is built to look like a person. Which of the following is the latest model of robonaut manufactured by NASA and General Motors?
- (a) Robonaut 33
 - (b) Robonaut 1
 - (c) Robonaut 2
 - (d) Dexterous 2

- 19.** The Hubble Space Telescope is a large telescope in space launched into orbit by space shuttle on April 24, 1990. What is the name of the space shuttle?
- (a) Discovery
 - (b) Endeavour
 - (c) Enterprise
 - (d) Atlantis

- 20.** Planet 'X' is a cold and dry planet having two satellites - Phobos and Deimos. Its 95% atmosphere is made up of carbon dioxide. What is 'X' in the above paragraph?
- (a) Mercury
 - (b) Venus
 - (c) Mars
 - (d) Saturn

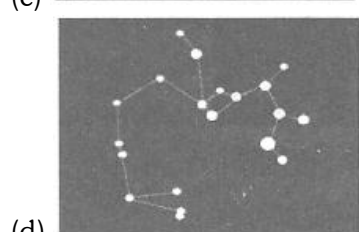
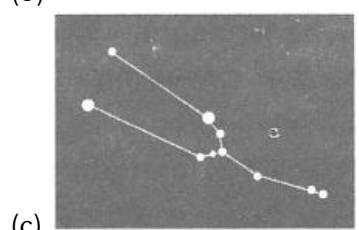
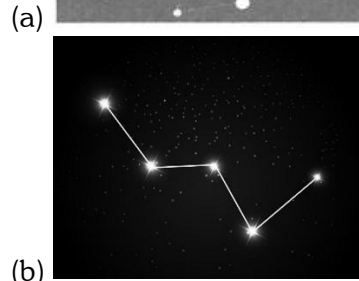
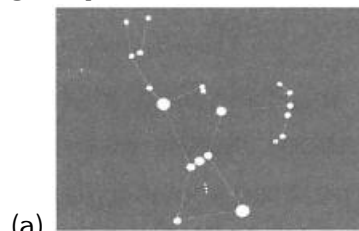
- 21.** In 2012, NASA's Kepler mission has discovered 11 new planetary systems hosting how many numbers of confirmed planets?
- (a) 25
 - (b) 26
 - (c) 36
 - (d) 35

- 22.** The area in which a planet is at the right distance having ideal temperature from a star is known as ____.
- (a) Goldilocks zone
 - (b) Habitable zone
 - (c) Living zone
 - (d) Both A and B

- 23.** The large dark patches on the moon's surface are known as
- (a) Dark matter
 - (b) Moon spots
 - (c) Maria or sea as it is filled with stones
 - (d) Maria or sea as it is filled with lava

- 24.** Planets' atmosphere is made up of different gases. On which of the following planets methane gas is found in large amounts?
- (a) Jupiter
 - (b) Saturn
 - (c) Uranus
 - (d) Mercury

- 25.** Identify the Cassiopeia constellation in the given pictures.



Answer - Key

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|--------------|--------------|--------------|--------------|--------------|
| 1. C | 2. C | 3. D | 4. B | 5. C |
| 6. C | 7. C | 8. B | 9. D | 10. C |
| 11. A | 12. D | 13. A | 14. A | 15. B |
| 16. C | 17. A | 18. C | 19. A | 20. C |
| 21. B | 22. D | 23. D | 24. C | 25. B |