



## Celestial Observation Quiz

1. Binary and double stars sometimes look like one star with the naked eye. True or False?

- a) True
- b) False

2. True or False? All cultures around the world use the same constellations.

- a) True
- b) False

3. True or False? Constellations are stars that are close together in space.

- a) True
- b) False

4. True or False? We see the same constellations in the sky all year long.

- a) True
- b) False

5. True or False? Planets can affect the appearance of a constellation.

- a) True
- b) False

6. An Asterism is..?

- a) Another name for constellation
- b) The numbering system of a constellation
- c) A pattern of stars

7. Which of these is NOT a type of star cluster?

- a) Open
- b) Globular
- c) Elliptical

8. How are stars within a constellation labelled according to brightness?

- a) Numbered 1 to 10
- b) Assigned Greek letters
- c) Given special stickers

9. Galaxies and Nebulae were originally referenced by Charles Messier. Today astronomers use the NGC. What does it stand for?

- a) NASA Galaxy Classification
- b) New General Catalogue
- c) Night Globe Comic

10. What is a quick way to find the star Polaris in the night sky?

- a) Follow the two end stars on the right upwards in the Plough (Ursa Major)
- b) Follow the three stars in Orion's Belt down up to the right
- c) Follow the top right and bottom right stars of the Square of Pegasus down

11. What is a quick way to find the star Sirius in the night sky?

- a) Follow the two end stars upwards in the Plough (Ursa Major)
- b) Follow the three stars in Orion's Belt down to the left
- c) Follow the cross of Cygnus

12. What is a quick way to find the star Arcturus in the night sky?

- a) Follow the three stars downwards in Orion's Belt
- b) Follow the cross of Cygnus
- c) Follow the path of the 'handle' of the Plough

13. What is a quick way to find the star Aldebaran in the night sky?

- a) Follow the three stars in Orion's Belt up to the right
- b) Follow the top right and bottom right stars of the Square of Pegasus down
- c) Follow the three stars downwards in Orion's Belt

14. What is a quick way to find the Pleiades in the night sky?

- a) Follow the three stars in Orion's Belt up to the right, pass through Aldebaran
- b) Follow the three stars in Orion's Belt down to the left
- c) Follow the two end stars on the right upwards in the Plough (Ursa Major)

15. What is a quick way to find the star Fomalhaut in the night sky?

- a) Follow the three stars downwards in Orion's Belt
- b) Follow the top right and bottom right stars of the Square of Pegasus down to the horizon
- c) Follow the path of the 'handle' of the Plough

16. What is a quick way to find the Andromeda Galaxy in the night sky?

- a) Follow the three stars downwards in Orion's Belt
- b) Follow the path of the 'handle' of the Plough
- c) Follow a line to the right from the bottom right and top left stars of the Square of Pegasus

17. What is the equivalent of celestial longitude?

- a) Eccentricity
- b) Declination
- c) Right Ascension

18. 0 degrees Right Ascension is also known as..?

- a) Equatorial Declination
- b) The First Point of Aries
- c) Declination minus 0

19. Ursa Major is a circumpolar constellation from which of these locations?

- a) UK
- b) India
- c) Australia

20. What is the ecliptic?

- a) The angle in which the Earth is tilted
- b) The line between the Earth and Moon
- c) The line between the Earth and Sun that the planets appear to follow

21. True or False? A circumpolar star is one seen from one location all year long.

- a) True
- b) False

22. True or False? If you stood at the North Pole and looked up, Polaris would appear directly above you.

- a) True
- b) False

23. Which of these are useful for a naked eye observing session (tick more than one)?

- a) Red torch
- b) Clipboard
- c) Pencil/rubber
- d) Warm clothes

24. This is looking slightly away from an object to better detect light from it..?

- a) Dark-adapted eye
- b) Relaxed eye
- c) Averted vision

25. This is not straining our eyes and placing less stress on them..?

- a) Dark-adapted eye
- b) Relaxed eye
- c) Averted vision

26. This is the time it takes for your eyes to get used to the dark..?

- a) Dark-adapted eye
- b) Relaxed eye
- c) Averted vision

27. What are star trails?

- a) The natural movement of stars in the sky
- b) Patterns of light from stars in long exposure photographs
- c) The image in your head when you look at stars and spin around lots

28. The Sun moves in the sky from..?

- a) East to West
- b) West to East
- c) North to South

29. When viewed from above the North Pole, Earth rotates from..?

- a) East to West
- b) West to East
- c) North to South

30. Which of these means the imaginary line in the sky between the observers Pole and Zenith?

- a) Latitude
- b) Horizon
- c) Meridian

## Answers

1. (a)
2. (b)
3. (b)
4. (b)
5. (a)
6. (c)
7. (c)
8. (b)
9. (b)
10. (a)
11. (b)
12. (c)
13. (a)
14. (a)
15. (b)
16. (c)
17. (c)
18. (b)
19. (a)
20. (c)
21. (a)
22. (a)
23. (a) (b) (c) (d)
24. (c)
25. (b)
26. (a)
27. (b)
28. (a)
29. (b)
30. (c)