# Question 1

When electromagnetic radiation is created it is said to be	
A) reflected	
B) emitted	
C) refracted	
D) absorbed	
Answer: https://biology-forums.com/index.php?topic=748352	
Question 2	6
Evidence from the analysis of zircon crystals suggests that the Earth	
A) may have been habitable immediately after its formation	
B) could only have been habitable after significant amounts of oxygen had built up in its atr	mosphere
C) could only have been habitable after the end of the Hadean Eon 500 million years ago	
D) may have been habitable in as little as 100 million years after its formation	
Answer: https://biology-forums.com/index.php?topic=748474	
Question 3	)
During the past few million years, ice ages were MOST LIKELY caused by	
A) changes in the distance from the Earth to the Sun	
B) small changes in the Earth's axis tilt and orbit	
C) changes in the heat released from the Earth	
D) changes in the energy output of the Sun	
Answer: https://biology-forums.com/index.php?topic=748530	

### **Question 4**

The first person to claim to see linear features on the surface of Mars was

A) Angelo Secchi

B) Percival Lowell

C) Giovanni Schiaparelli

D) William Herschel

Answer: https://biology-forums.com/index.php?topic=748852

# **Question 5**

In the simplified Drake equation, the total number of life-bearing planets in our galaxy is given by

A) NHP

B) flife

C) NHP × flife D) NHP / flife

Answer: https://biology-forums.com/index.php?topic=749209

# **Question 6**

Most of the time, planets are observed to

A) be stationary with respect to background stars

B) move eastward with respect to background stars

C) move due south with respect to background stars D) move westward with respect to background stars

Answer: https://biology-forums.com/index.php?topic=748210

# **Question 7**

In which eon of Earth's history did the heavy bombardment occur?

A) Hadean

B) Archean

C) Phanerozoic

D) Proterozoic

Answer: https://biology-forums.com/index.php?topic=748459

# **Question 8**

Which domains of life consist entirely or microbes?

A) bacteria only
B) archaea and eukarya
C) bacteria and archaea
D) archaea only
Answer: https://biology-forums.com/index.php?topic=748609
Question 9
Much of Europa's surface appears chaotic and clogged with huge iceberg-like blocks. This is consistent with
A) a thin icy crust that has been broken into pieces by tidal forces below which is a subsurface ocean of water
B) the surface thawing due to heat emitted by Jupiter
C) the breaking up of the surface due to plate tectonics
D) a giant impact that has recently shattered the crust into pieces
Answer: https://biology-forums.com/index.php?topic=748981
Question 10
Between the orbits of the planets Mars and Jupiter we find
A) the Oort cloud
B) Orion's belt
C) the Kuiper belt
D) the asteroid belt
Answer: https://biology-forums.com/index.php?topic=748366
Question 11
The point in time when the expansion of the universe began is referred to the
A) big crunch
B) cosmic detonation event
C) big bang
D) big blowup
Answer: https://biology-forums.com/index.php?topic=748291
Question 12

Particles of matter and antimatter have the

- A) same charge and mass
- B) same charge but different mass
- C) different charge and mass D) same mass but opposite charge

Answer: https://biology-forums.com/index.php?topic=749317

# **Question 13**

Which kind of robotic space mission enables us to take a quick look at a planet?A) sample returnB) flybyC) orbiter

D) lander/probe

Answer: https://biology-forums.com/index.php?topic=748836

### **Question 14**

The number of impact craters on the slopes of Tharsis volcanoes suggests that they have been inactive

A) since Mars formed 4.6 billion years ago

B) for at least a billion years

C) for at least tens of millions of years

D) only for the last few hundred years

Answer: https://biology-forums.com/index.php?topic=748899

### **Question 15**

Modern day living stromatolites which resemble ancient stromatolites very closely have been found in

A) the Yucatan peninsula, Mexico

B) South West Greenland

C) Western Australia

D) Yellowstone National Park, U.S.A.

Answer: https://biology-forums.com/index.php?topic=748666

#### **Question 16**

- Which of the following statements regarding the determination of surface habitability and subsurface habitability of a planet is correct?
- A) both surface and subsurface habitability can be determined only from robotic space probes

B) surface habitability can be determined remotely by studying reflected starlight from a planet, while determining subsurface habitability would require a robotic space probe

C) both surface and subsurface habitability can be determined by analyzing reflected starlight

D) subsurface habitability can be determined remotely by studying reflected starlight from a planet, while determining surface habitability would require a robotic space probe

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Answer: https://biology-forums.com/index.php?topic=749041

### **Question 17**

Kepler's Third Law of planetary motion states that

- A) the further a planet is from the Sun, the faster it moves in its orbit
- B) an imaginary line joining the Sun and planet sweeps out equal areas in equal times
- C) the further a planet is from the Sun, the slower it moves in its orbit
- D) the orbits of planets are ellipses

Answer: https://biology-forums.com/index.php?topic=748231

### **Question 18**

What do we mean by the half-life of a radioactive isotope?

- A) it is the amount of time a person can be exposed to radiation without getting sick
- B) it is the time for half the number of radioactive nuclei to become stable nuclei
- C) it is the amount of time for half of the nuclei to become radioactive
- D) it is the time for half the number of radioactive nuclei to decay
- Answer: https://biology-forums.com/index.php?topic=748440

# **Question 19**

Using current spacecraft, how long would it take to reach the nearest stars?

A) hundreds of thousands of years

B) millions of years

C) only a few years

D) thousands of years

Answer: https://biology-forums.com/index.php?topic=748185

# **Question 20**

If we were to detect radio and TV signals that had leaked out into space from another civilization, this would be an example of

A) a signal used for communication between a civilization's home world and another star system

- B) a signal used for communication between a civilization's home world and another planet in its own planetary system
- C) a signal used for local communication in the world where the intelligent beings exist

D) an intentional signal beacon

Answer: https://biology-forums.com/index.php?topic=749247