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Railways (Group-D & ALP) Science Questions with solution

RRB Science MCQs Quiz 2

Directions: Study the following questions carefully and choose the right answer:

1. Which of the following non-alcoholic beverages is known as the “Queen Beverages”?

- A. Coffee B. Tea C. Cocoa D. Cola

2. Blood pressure is measured with:

- A. Thermometer B. Barometer C. Sphygmomanometer D. Lactometer

3. Bone deformities occur due to excessive intake of:

- A. Phosphorus B. Potassium C. Fatty acid D. Fluorine

4. Which of the following is the parasitic plant?

- A. Marchantia B. Kelp C. Mushroom D. Pteris

5. Which of the following is released during photosynthesis?

- A. Oxygen B. Carbon di-oxide C. Energy D. Light

6. Optical fibre was invented in the year?

- A. 1995 B. 2000 C. 2005 D. 1955

7. Neutron was discovered by:

- A. Chadwick B. Rutherford C. Fermi D. Bohr

8. Which of the following produces H₂ gas, when reacts with acid?

- A. Zn B. S C. C D. O

9. Which of the following is a rich source of carbohydrates, proteins and fats?

- A. Bean B. Rice C. Groundnut D. Gram

10. When day light hours are increased, the rate of photosynthesis:

- A. Increase
- B. Decrease
- C. Remains same
- D. None of the above

11. The mirror used by ENT specialist is:

- A. Plane mirror
- B. Concave mirror
- C. Convex mirror
- D. None of these

12. Blood clotting will not occur in the absence of

- A. Iron
- B. Calcium
- C. hosphorus
- D. None of the above

13. Which of the following causes polio-myelitis?

- A. Dengue Virus
- B. Entero Virus
- C. Mumps Virus
- D. Rhabdo Virus

14. Number of the pairs of the spinal nerves are:

- A. 30
- B. 31
- C. 33
- D. 32

15. The mean distance from the Sun to the Earth is called:

- A. Light year
- B. Astronomical Unit
- C. Parallactic Second
- D. Angstrom

16. Chemically fats and oils are:

- A. Triesters
- B. Amines
- C. Aldehydes
- D. Ketons

17. The percentage of Plasma in the total blood volume in human beings is about:

- A. 45
- B. 50
- C. 55
- D. 60

18. Which of the following metal has the lowest melting point?

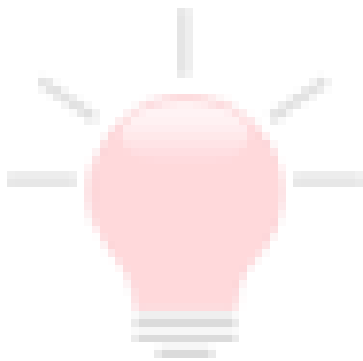
- A. Lead
- B. Lithium
- C. Potassium
- D. Sodium

19. Human beings can hear the sound range between:

- A. 10 to 20 decibels B. 100 to 150 decibels C. 50 to 60 decibels
D. None of the above

20. Velocity of the sound is minimum in:

- A. Steel B. Vacuum C. Water D. Air



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Correct Answers:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| B | C | D | D | A | D | A | A | B | C |

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 11 |
| B | B | B | B | B | A | C | C | D | B |

Explanations:

1.

Tea, non-alcoholic beverages is known as the “Queen Beverages”.

Hence, option B is correct.

2.

A sphygmomanometer, also known as a blood pressure meter, blood pressure monitor, or blood pressure gauge, is a device used to measure blood pressure.



The first clinically applicable sphygmomanometer was invented in 1881 by Austrian physician Karl Samuel Ritter von Basch.

Note:

The heart is responsible for supplying the organs and tissues of the body with blood. To do this it pumps blood into the large vessels of the circulatory system with every beat. The blood that is pumped into these vessels puts pressure on the walls of the vessels. When the heart muscle contracts during each

heartbeat, the pressure rises as well. When measuring blood pressure, there are two different values:

- Systolic blood pressure is taken while the heart muscle is contracting and pumping oxygen-rich blood into the blood vessels.
- Diastolic blood pressure is taken while the muscle is relaxing and refilling with blood.

Hence, option C is correct.

3.

Bone deformities occur due to excessive intake of Fluorine.

Hence, option D is correct.

4.

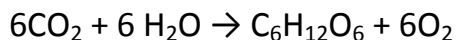


Bone deformities occur due to excessive intake of Fluorine.

Hence, option D is correct.

5.

Plants use photosynthesis as a way of producing glucose. They take in light energy from the sun and water and carbon dioxide from the air. This is then used to produce oxygen and glucose.



Hence, option A is correct.

6.



In 1952, UK based physicist Narinder Singh Kapany invented the first actual fiber optical cable

The term fibre optics was coined by Singh Kapany in 1956.

So, as per the given options 1955 can be ticked as the right answer.

For more information click on the link given below :-

<https://www.tevelec.com/history>

Hence, option D is correct.

7.

Neutron was discovered by James Chadwick in the year .

The neutron is a subatomic particle, symbol n or n^0 , with no net electric charge and a mass slightly larger than that of a proton. Protons and neutrons constitute the nuclei of atoms.

Hence, option A is correct.

8.

As, Zinc is a metal so it will produce H_2 gas when reacts with acid.

Active metals react with acids to produce hydrogen because they are above hydrogen in the activity series.

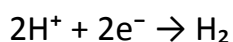
Atoms are always competing with each other for valence electrons.

Active metals readily lose their valence electrons to form cations.

For example,



Hydrogen "wants" those electrons.



So an active metal reacts with acids to produce hydrogen.

Hence, option A is correct.

9.

Rice is about 90 percent carbohydrate, 8 percent protein and 2 percent fat, so Rice is having all three nutrients.

Hence, option B is correct.

10.

When day light hours are increased, the rate of photosynthesis remains unchanged.

Hence, option C is correct.

11.

To see the inner part of ear and other parts, E.N.T doctors use a concave mirror.

When the rays of light falls on reflecting surface of concave mirror, that time Concave mirror concentrate those all the rays at its focus.

Hence, option B is correct.

12.

Calcium works together with vitamin K and a protein called fibrinogen in the clotting cascade.

Hence, option B is correct.

13.

Poliomyelitis is caused by infection with a member of the genus Enterovirus known as poliovirus (PV).

Hence, option B is correct.

14.

Spinal nerve. Spinal nerve, in vertebrates, any one of many paired peripheral nerves that arise from the spinal cord. In humans there are 31 pairs:

8 cervical, 12 thoracic, 5 lumbar, 5 sacral, and 1 coccygeal.

Each pair connects the spinal cord with a specific region of the body.

Hence, option B is correct.

15.

The distance from the Earth to the Sun on average is about 149 million km which is often referred to as Astronomical Unit.

1 AU = 149 million km

Hence, option B is correct.

16.

Fats and oils are called triglycerides (or triacylglycerols) because they are esters composed of three fatty acid units joined to glycerol, a trihydroxy alcohol.

Fats and oils are composed of molecules known as triglycerides, which are esters.

A triglyceride is called a fat if it is a solid at 25°C; it is called an oil if it is a liquid at that temperature.

Hence, option A is correct.

17.

Blood plasma is a yellowish colored liquid component of blood that normally holds the blood cells in whole blood.

It makes up about 55% of the body's total blood volume

Hence, option C is correct.

18.

Here, Potassium has the lowest melting point in the given options i.e. 63.5° C.

Helium has the lowest melting point of -272.2° C.

Hence, option C is correct.

19.

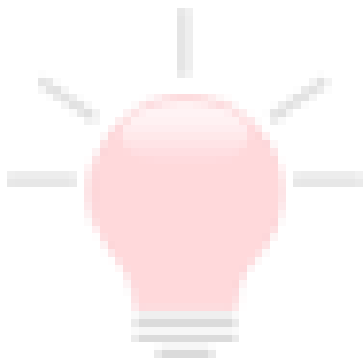
The most accepted sound range of human being is 0 to 120 decibels.

Hence, option D is correct.

20.

The speed of sound in a vacuum is zero meters per second, as sound cannot travel in a vacuum. Sound is a wave, which means it spreads through the vibration of particles in a medium, such as water or air. Since a vacuum is empty space, there is no medium for the sound to travel through.

Hence, option B is correct.



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