MULTI QUIZ

SCIENCE

ABCD

1. Which two metals make up most of the Earth's core?

- [ ] Iron and nickel
- [ ] Nickel and gold
- [ ] Iron and copper
- [ ] Lead and zinc

ABCD

2. What is the electrode through which electric current flows into a device, such as a vacuum tube, called?

- [ ] The cathode
- [ ] The anode

MORSE CODE

3. How is the letter "U" written in international Morse code?

Answer: _____

YES/NO

4. Is the inclined plane a simple machine?

- [ ] No
- [ ] Yes

ABCD

5. What is the unit of heredity that occupies a specific place on a chromosome called?

- [ ] Allele
- [ ] Gene
- [ ] Nucleotide
- [ ] Ribosome

ABCD

6. Who received the 2011 Nobel Prize in Chemistry for the discovery of quasicrystals?

- [ ] Roald Hoffmann
- [ ] Ahmed Zewail
- [ ] Dan Shechtman
- [ ] Ada Yonath

YES/NO

7. Is aluminum a dielectric?

- [ ] No
- [ ] Yes

ABCD

8. What is the largest formal geochronological unit called?

- [ ] Eon
- [ ] Period
- [ ] Epoch
- [ ] Era

ABCD

9. What is the science of population, dealing with natural increase and migration, among other things, called?

- [ ] Demography
- [ ] Anthropology
- [ ] Ethnography
- [ ] Political science

ABCD

10. What is the smallest mass of fissile material needed to sustain a chain reaction called?

- [ ] Atomic mass
- [ ] Molar mass
- [ ] Critical mass
- [ ] Rest mass

ABCD

11. What is the smallest repeating fragment of a polymer molecule called?

- [ ] Mer (repeat unit)
- [ ] Monomer
- [ ] Atom
- [ ] Isomer

ABCD

12. What is the state of matter called that easily changes shape and takes the form of its container but hardly changes volume?

- [ ] Plasma
- [ ] Solid
- [ ] Gas
- [ ] Liquid

ABCD

13. Who developed the psychological theory known as the hierarchy of needs?

- [ ] Carl Gustav Jung
- [ ] B. F. Skinner
- [ ] Sigmund Freud
- [ ] Abraham Maslow

ABCD

14. Which is denser: water or ice?

- [ ] Ice
- [ ] Water

ABCD

15. What is the direct transition of a solid into a gas called?

- [ ] Melting
- [ ] Evaporation
- [ ] Deposition
- [ ] Sublimation

YES/NO

16. Is the square root of 73 greater than 8?

- [ ] No
- [ ] Yes

ABCD

17. Does friction act in the direction of a body's motion or opposite to it?

- [ ] In the same direction
- [ ] Opposite to it

YES/NO

18. Is 1911 a prime number?

- [ ] No
- [ ] Yes

ORDER

19. Arrange the letters of the Greek alphabet in ascending order.

Number the items in the correct order.

- [ ] Gamma
- [ ] Delta
- [ ] Beta
- [ ] Alpha

ABCD

20. What is the phenomenon in which warmer water freezes faster than cold water under certain conditions called?

- [ ] The Mpemba effect
- [ ] The Coriolis effect
- [ ] The Doppler effect
- [ ] The Leidenfrost effect

Answers

SCIENCE

1. **Iron and nickel**
   The old name for the core, "nife", comes from the symbols for nickel and iron (Ni, Fe). Its temperature is estimated at 5,500–6,500 °C. The outer core is liquid, while the inner core is solid and rotates slightly faster than the Earth's mantle.

2. **The anode**
   In vacuum tubes the anode is the positive electrode. The name comes from the Greek "ana", up, and "hodos", way.

3. **••–**

4. **Yes**
   Along with the lever, it is one of the two basic simple machines. It lets you lift a load with less force, but over a longer distance.

5. **Gene**
   A gene's position on a chromosome is called its locus. Alleles are different versions of the same gene.

6. **Dan Shechtman**
   The Israeli scientist discovered quasicrystals in 1982 but was ridiculed for years – Linus Pauling, among others, claimed they did not exist.

7. **No**
   No. Aluminum is a very good electrical conductor and is used, among other things, in high-voltage power lines.

8. **Eon**
   It is divided into eras and lasts at least 500 million years. The name comes from the Greek "aiōn", meaning time or eternity.

9. **Demography**
   The name comes from the Greek words "demos" (people) and "grapho" (I write). Demography also studies population structure, for example by age and sex.

10. **Critical mass**
    At critical mass, each fission of a nucleus triggers exactly one further fission.

11. **Mer (repeat unit)**
    The name comes from the Greek "meros", meaning part. A polymer molecule consists of a very long chain of mers.

12. **Liquid**

13. **Abraham Maslow**

14. **Water**
    That is why ice floats on water. Water is densest at about 4 °C.

15. **Sublimation**

16. **Yes**
    The square root of 73 is 8.5440.

17. **Opposite to it**

18. **No**
    No, it is divisible by 3, among others.

19. **Alpha → Beta → Gamma → Delta**

20. **The Mpemba effect**
    Mpemba noticed that a heated ice cream mix froze faster than a cooled one.

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