Deepan Islam

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Science Bowl

Question Set

1. Biology- *Multiple Choice*: Most prokaryotes obtain their source of carbon from

W.) By consuming other prokaryotes

X.) Organic compounds

Y. Carbon Dioxide

Z. Carbon monoxide

2. Biology- *Multiple Choice*: Parts of the polypeptide coil or fold into patterns. In which stage is this polypeptide most likely in

W. Primary structure

X. Secondary structure

Y. Tertiary Structure

Z. Quaternary structure

3. Biology- *Multiple Choice*: Organelle that is used on the breakdown of fatty acids, detoxification of alcohol and other substances

W. Lysosome

X. Leucoplast

Y. Peroxisome

Z. Plastid

4. Biology- *Multiple Choice*: What function does Glycolysis have in cellular respiration?

W. It breaks down sucrose to fructose

X. It breaks down glucose to two molecules of a carbon compound called pyruvate

Y. It decomposes glucose to carbon dioxide

Z. It adds a phosphate group to fructose

5. Math-*Multiple Choice*: Simplify

W.) x= -1

X.) x= 1

Y.) x=0

Z.) x= 2

6. Math-*Multiple Choice*: A 45-45-90 triangle has two legs of 6 centimeters. What is the length of the hypotenuse?

W.)

X.) 72 centimeters

Y.

Z. 6 centimeters

7.) Math-*Multiple Choice*:A bag contains 3 red marbles, 4 blue marbles, and 5 green marbles. What is the chance of getting a red marble?

W.) 0.25%

X.) 0.33%

Y.) 0.41%

Z.) 0.5%

8. Two triangles are congruent to each other by having two angles congruent and the side between congruent. Which congruency property is best for the case?

W. ASA

X. SAA

Y. AAS

Z. HL

9.) Chemistry- *Multiple Choice*: The strongest type of chemical bond is

W. Covalent

X.) Hydrogen

Y.) Ionic

Z.) Hydroxyl

10.) Chemistry- *Multiple Choice*: This element has a 6 protons and 8 neutrons. What is its atomic mass?

W.) 6

X.) 8

Y.) 14

Z. 2

11.) Chemistry- *Multiple Choice*: Which of the following elements is a metal?

W.) Nitrogen

X.) Oxygen

Y.) Silicon

Z.) Gold

12. Chemistry- *Multiple Choice*: A substance has its pH decrease from 4 to 2. How much more concentration of H+ ions are there?

W.) 10

X.) 100

Y.) 1000

Z.) 55

13. Earth Science: *Multiple Choice*: Places where two tectonic plates are moving toward each other are called:

W.) Convergent Boundaries

X.) Subduction Boundaries

Y.) Transform Boundaries

Z.) Fault Boundaries

14. Earth Science: *Multiple Choice:* What is the outermost layer of Earth’s atmosphere?

W.) Thermosphere

X.) Hexosphere

Y.) Exosphere

Z.) Mesosphere

15.) Earth Science: *Multiple Choice:* What is the point where an earthquake originates?

W.) Epicenter

X.) Focus

Y.) Surface line

Z.) Body line

16.) Earth Science: *Multiple Choice:* This type of dune is the most common and its maximum size is 30 meters high.

W.) Longitudinal dune

X.) Transverse Dune

Y.) Barchan dune

Z.) Parabolic Dune

17.) Physics: *Multiple Choice*: What is the force when a 700 kilogram car is pushed at an acceleration rate of 5m/s/s?

W.) 3500

X.) 350

Y. 650

Z.) 140

18.) Physics: *Multiple Choice*: If a girl pushes on a box with a force of 5 newtons to the right and a boy pushes on the box 2 newtons to the right; What is the total force on the box and which distance would it go?

W.) 7 newtons right

X.) 7 newtons left

Y.) 3 newtons right

Z.) 3 newtons left

19.) Physics: *Multiple Choice*: The Newton is the SI Unit for?

W.) mass

X.) weight

Y.) force

Z.) volume

20.) Physics: *Multiple Choice*: What is inertia?

W.) The tendency of an object to resist a change in its motion or rest

X.) The tendency of an object to stay still

Y.) An object continuation of motion

Z.) The force an object receives when it collides with another object

21.) Astronomy: *Multiple Choice:* What are large dark plains formed by ancient volcanic activity on the moon known as?

W.) Asympalthic regions

X.) Maria

Y.) Seas

Z.) Craters

22.) Astronomy: *Multiple Choice:* What compound are the clouds on Jupiter composed of?

W.) Hydrogen sulfide

X.) Ammonia

Y.) Sulfuric hydroxide

Z.) Hydrogen

23. Astronomy: *Multiple Choice:* The nearest star excluding the sun to the Earth is

W.) Sirius A

X.) Sirius B

Y.) Proxima Centauri

Z.) Rigil

24.) Astronomy: *Multiple Choice:* Our Local group is part of which super cluster?

W.) Virgo cluster

X.) Local Cluster

Y.) Proxima Cluster

Z. Dwarf Cluster

25.) Astronomy: *Multiple Choice:* What is apogee?

W.) Apogee is when a satellite is farthest away from Earth

X.) Apogee is when a satellite is closest to Earth

Y.) Apogee is when a satellite is an intermediate distance from Earth

Z.) Apogee is when a satellite is in its first circulation around the Earth