

The achiever's guide to academic life and beyond...

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College entrance exam and science high school entrance test tips. Conquer UPCAT, ACET, USTET, DLSUCET, PSHS-NCE, and other entrance tests.

SCIENCE PROFICIENCY (General Science)

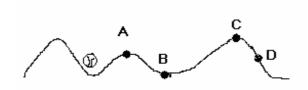
Directions: For each statement or question, choose the letter of the word or expression that, of those given, best completes or answers the question. Then on your answer sheet, blacken the circle that corresponds to your final answer.

BEGIN HERE:

- 1. For work to be done, what are the factors that must be present?
 - a. force and acceleration
- c. force and distance
- b. weight and distance
- d. weight and force
- 2. Salt water has a density greater than that of pure water. What does this mean?
 - a. Salt water is heavier than water
 - b. Salt water is lighter than water

 - c. Salt water is as heavy as waterd. Saltwater has more volume than water

For nos. 3-4 Refer to the following figure



- 3. At which point will the kinetic energy of the ball the greatest?
- b. B
- d. D
- 4. At which point will the potential energy of the ball be the greatest?
 - a. A
- b. B.
- d. D
- 5. What type of heat transfer is responsible for the formation of sea breeze and land breeze? Science I

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> a. conduction c. convection b. condensation d. radiation

6. What is the volume of an object when after dropping, 17.8 mL water in a graduated cylinder rises to 23.6 mL?

a. 5.8 mL c. 17.8 mL b. 14.2 m L d. 23.6 mL

7. What is the weight of an object due to gravity whose mass is 17.6 q?

a. 0.176 N c. 17.6 N b. 1.76 N d. 176 N

8. A monkey weighing 500 newtons climbs a tree 10 meters high. How much work does the monkey do?

a. 100 joules c. 1000 joules b. 500 joules d. 5000 joules

9. Which layer of the atmosphere returns radio and TV broadcasts back to earth?

c. mesosphere a. ionosphere b. exosphere d. stratosphere

10. What type of clouds will be seen during a stormy day?

a. cirrus b. cumulus d. stratus

- 11. Which of the statements below does not explain the movements of the earth's crust?

 - a. Earthquakes that originate beneath the sea can produce tsunamis.b. The mantle beneath the earth's crust is made of plastic materials that have convection currents.
 - c. The earth's crust has cracked into huge plates which move slowly due t convection currents in the mantle.
 - d. Many years of stress on the rock may fracture the crust causing one portion to slide upward or downward with respect to the other.
- 12. Erosion and deposition are responsible for the formation of the following landforms except

a. flood plain c. mountain b. delta d. lagoon

13. What is 30 °C in °F?

a. 30°F c. 86 °F

Science I

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b. 58 °F

d. 102 °F

14. Which of the following is not a greenhouse gas?

a. CFC's

c. Nitrous Oxide

b. Methane

d. Carbon Dioxide

- 15. What is the equivalent value of the absolute zero temperature on the Celsius, and Kelvin
 - a. 0 °Celsius, and -600° Kelvin

 - b. 0 °Celsius, and 273 Kc. 273° Celsius, and 0 Kelvin
 - d. -273° Celsius, and 0 Kelvin

For nos. 16 and 17, refer to the table below.

Food use	Temperature	Room lighting	Exposure	Amount of moisture	Result
Home made pandesal	37°C	Dimly lighted	Air	High	Plenty of molds
Home made pandesal	37°C	Dimly lighted	Air	Low	Tiny spots of molds

- 16. What is the dependent variable in the setup?
 - a. type of bread

c. amount of moisture

b. temperature

- d. exposure time
- 17. What conclusion can be deducted from the experiment?
 - a. Molds like breads.
 - b. Molds grow anywhere.
 - c. Molds grow best in moist places.
 - d. Molds are growing relative to temperature.
- 18. Gon wants to know which is stronger, Bisuke's punch or Killua's. Using the scientific method, how should Gon setup his controlled experiment?
 - a. Let Bisuke and Killua fight till one of them wins.
 - b. Let Bisuke and Killua punch him then compare which is more painful
 - c. Let Bisuke and Killua punch the same object a number of times then compare the damage done
 - d. All of the above.

Science I

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- 19. The moon is said to light up the night skies. What gives the moon this ability to shine?
 - a. The sun's reflection off the moon.
 - b. Radiation produced by the moon's atmosphere.
 - c. Radiation from the Sun that is absorbed by the moon.
 - d. The luminous substance found on the moon's surface.
- 20. What is not true about moon and tides?
 - a. When the moon is close to earth, the lesser the effect of gravity
 - b. When the moon and earth are in line, the highest tides occur on earth
 - c. When earth and moon are at right angles, the lowest tides occur on earth
 - d. There are two high tides at opposite sides of the earth and two low tides at the other
- 21. What do you call the earth's hard outer shell?

a. Crust c. inner core b. outer core d. mantle

22. Mt. Mayon which is built from alternate layers of lava and ash with many little craters on its slope is what kind of volcano?

a. Shieldb. cinderc. composited. caldera

23. 150 mg is equal to ______.

a. 0.015 g c. 1.50 g b. 0.150g d. 15.0g

24. Which star is the hottest star?

a. Yellowb. Bluec. Oranged. Red

- 25. Why is Venus the twin planet of the Earth?
 - a. Life is possible in Venus.
 - b. Venus has almost the same size as the Earth
 - c. Venus has the same orbit as the Earth to the sun
 - d. Venus has the distance similar to earth from the sun.
- 26. Which planet is the coldest, smallest, and outermost planet in the solar system?

a. Neptune c. Mercury

Science I

-4-

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b. Mars d. Pluto

27. Mid ocean ridges are result of what plate activity?

a. Converging plates

c. Inverting plates

b. Diverging plates

d. Spreading plates

28. What harmful gas is being released when engines burn fossil fuels?

a. Sulfur

c. Carbon Monoxide

b. Oxygen

d. nitrogen

29. What absorbs a portion of the radiation from the sun, preventing it from reaching the earth's surface?

a. Chloroflorocarbon

c. Freon

b. Ozone

d. Charon

30. On clear, calm evenings, temperature differences between a body of water and neighboring land produce a cool wind that blows offshore. This wind is called a

a. Sea breeze

c. Morning Breeze

b. Land breeze

d. Evening breeze

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