



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:**

- For work to be done, what are the factors that must be present?
  - force and acceleration
  - weight and distance
  - force and distance
  - weight and force
- Salt water has a density greater than that of pure water. What does this mean?
  - Salt water is heavier than water
  - Salt water is lighter than water
  - Salt water is as heavy as water
  - Saltwater has more volume than water

For nos. 3-4 Refer to the following figure



- At which point will the kinetic energy of the ball the greatest?
  - A
  - B
  - C
  - D
- At which point will the potential energy of the ball be the greatest?
  - A
  - B
  - C
  - D
- What type of heat transfer is responsible for the formation of sea breeze and land breeze?

Science I

- 1 -

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- a. conduction  
b. condensation  
c. convection  
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  
b. 14.2 mL  
c. 17.8 mL  
d. 23.6 mL
7. What is the weight of an object due to gravity whose mass is 17.6 g?  
a. 0.176 N  
b. 1.76 N  
c. 17.6 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  
b. 500 joules  
c. 1000 joules  
d. 5000 joules
9. Which layer of the atmosphere returns radio and TV broadcasts back to earth?  
a. ionosphere  
b. exosphere  
c. mesosphere  
d. stratosphere
10. What type of clouds will be seen during a stormy day?  
a. cirrus  
b. cumulus  
c. nimbus  
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 to 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  
b. delta  
c. mountain  
d. lagoon
13. What is 30 °C in °F?  
a. 30 °F  
c. 86 °F

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19. The moon is said to light up the night skies. What gives the moon this ability to shine?
- The sun's reflection off the moon.
  - Radiation produced by the moon's atmosphere.
  - Radiation from the Sun that is absorbed by the moon.
  - The luminous substance found on the moon's surface.
20. What is not true about moon and tides?
- When the moon is close to earth, the lesser the effect of gravity
  - When the moon and earth are in line, the highest tides occur on earth
  - When earth and moon are at right angles, the lowest tides occur on earth
  - 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. Shield | c. composite |
| b. cinder | d. 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. Yellow | c. Orange |
| b. Blue   | d. Red    |
25. Why is Venus the twin planet of the Earth?
- Life is possible in Venus.
  - Venus has almost the same size as the Earth
  - Venus has the same orbit as the Earth to the sun
  - 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 |
|------------|------------|

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- b. Mars
- d. Pluto
27. Mid ocean ridges are result of what plate activity?
- a. Converging plates
- b. Diverging plates
- c. Inverting plates
- d. Spreading plates
28. What harmful gas is being released when engines burn fossil fuels?
- a. Sulfur
- b. Oxygen
- c. Carbon Monoxide
- d. nitrogen
29. What absorbs a portion of the radiation from the sun, preventing it from reaching the earth's surface?
- a. Chloroflorocarbon
- b. Ozone
- c. Freon
- 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
- b. Land breeze
- c. Morning Breeze
- d. Evening breeze

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