

USTET 2015

SECTION 4: SCIENCE PROFICIENCY

Time -- 45 minutes

80 Questions

NAME: _____

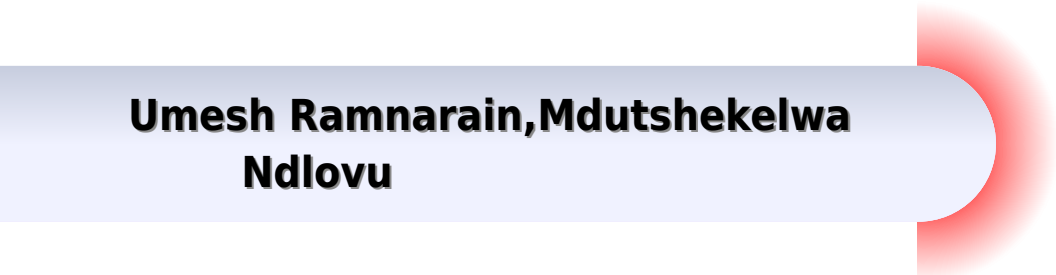
SCHOOL: _____

For each question, decide which is the best answer choice, and encircle the corresponding number.

1. What type of soil is most suitable for plant growth?
(1) loam (2) sand (3) silt (4) clay
2. What instrument measures earthquakes?
(1) seismograph (2) barograph (3) thermograph (4) polygraph
3. What is believed to be the composition of the earth's core?
(1) heavy liquid (2) heavy solid (3) soft liquid (4) soft gases
4. Where are nutrients mostly absorbed?
(1) small intestine (2) large intestine (3) stomach (4) esophagus
5. Why are whales considered mammals?
(1) They nourish their young with milk.
(2) They give birth to live young and not hatched from eggs.
(3) They use lungs to breathe.
(4) All of the these
6. Why are most fungi parasitic?
(1) They can kill their host.
(2) They take nutrients from their host.
(3) They can cause diseases or infections.
(4) They stick to the other organisms.
7. Convert 104°F to Celsius.
(1) 27°C (2) 30°C (3) 40°C (4) 100°C
8. If your mass on Earth is 54 kg, what is your weight on the moon?
(1) 90 kg (2) 54 kg (3) 88 N (4) 540 N
9. Which of the following is true about acids?
(1) It tastes bitter.
(2) It feels slippery.
(3) Its pH is more than 7.
(4) It turns blue litmus paper into red.
10. Which of the following produces the greatest acceleration?
(1) $F = 16 \text{ N}$, $m = 4 \text{ kg}$
(2) $F = 10 \text{ N}$, $m = 5 \text{ kg}$
(3) $F = 5 \text{ N}$, $m = 1 \text{ kg}$
(4) $F = 2 \text{ N}$, $m = 15 \text{ kg}$
11. Which of the following is the function of the liver?
(1) It filters waste materials from the blood.
(2) It manufactures bile to aid fat digestion and remove toxins from the blood.
(3) It supplies most enzymes for digestion.
(4) It destroys old red blood cells, produces lymphocytes, which is a type of white blood cells, and stores blood.
12. Which of the following chemical equations shows a composition reaction?
(1) $\text{Cl}_2 + 2\text{NaBr} \rightarrow 2\text{NaCl} + \text{Br}_2$
(2) $\text{C}_{20}\text{H}_{42} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
(3) $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}$
(4) $\text{NaOH} + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O}$
13. Why is it warmer in the regions near the equator than those near the poles?
(1) Regions near the equator receive vertical rays of the sun.
(2) The air above the equator is thicker.

Science Proficiency Study Guide 2015

**Umesh Ramnarain, Mdutshekelwa
Ndlovu**



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