



PROVINCIAL DEPARTMENT OF EDUCATION NORTH WESTERN PROVINCE

THIRD TERM TEST - 2018

SCIENCE

Grade 07

Two Hours.

Name / Index No. :

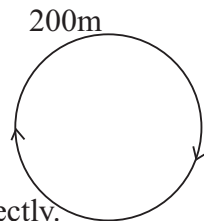
PART - I

- Answer all the questions. Underline the correct answer.

01. A sportsman who is running 5 rounds around a Circular shaped 200 metre track, ends the event at the same point where he started.

Select the answer which contains his displacement and distance he travelled respectively.

- (1) 1000 m, 0 (2) 200 m, 1000 m
(3) 1000 m, 1000 m (4) 0, 1000 m



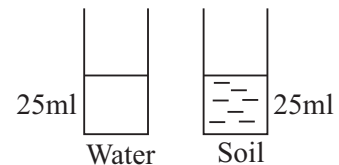
02. Select the answer which indicates the mineral nutrient and its function correctly.

- (1) Iron - Maintaining healthy teeth and bones.
(2) Sodium - Transmission of nerve impulses.
(3) Phosphorus - Development of intelligence and memory power.
(4) Calcium - Formation of hemoglobin.

03. The answer which includes the three layers from top to bottom in the soil profile is,

- (1) Top soil, sub soil, bed rock
(2) Bed rock, top soil, sub soil
(3) Sub soil, top soil, bed rock
(4) Bed rock, sub soil, top soil

04. When the soil and water in above two measuring Cylinders put into one measuring cylinder, the height of it reduced that 50ml.



What is the main reason for that,

- (1) Releasing of air which retained in soil. (2) Releasing of air which retained in water.
(3) Absorbing water by Soil organisms. (4) Absorbing water by Soil particles.

05. Select the answer which contains only heat conductors,

- (1) Copper, Air, Aluminum, Mercury (2) Copper, Aluminum, Silver, Iron
(3) Brass, Mercury, Rubber, Iron (4) Gold, Rubber, Silver, Wood

06. A step of a rock weathering is shown below.

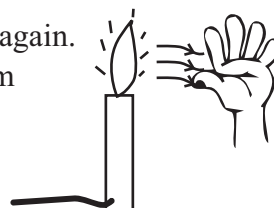
Sedimentary rocks → A → Metamorphic rocks

Select the answer which is suitable to A,

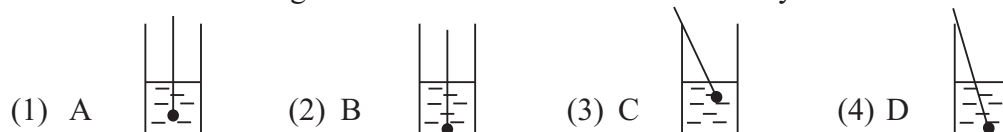
- (1) Cooling
(2) Subjecting to extreme temperature.
(3) Exposure to temperature and pressure.
(4) Subjecting to extreme temperature and cooling again.

07. What is the method of heat transfer which feel warm to the palm according to the below figure?

- (1) Conduction (2) Convection
(3) Radiation (4) all the above



08. Below shows the way of using thermometer for measuring temperature of a soil sample by four students. What is the figure that used the thermometer correctly?



09. Millimetre, Centimetre, Metre and kilometre are used to measure length. What is the international stand and unit of measuring length.

(1) Milimetre (2) Centimetre (3) Metre (4) Kilometre

10. Select the correct statement about force,

(1) Force has a magnitude only.
 (2) Pulling only can be resulted by applying a force.
 (3) Pushing only can be resulted by applying a force.
 (4) Pulling and Pushing can be done by applying a force.

11. Given below are three statements with regard to soil erosion.

A - Washing away of sand in coastal areas by sea wave is a type of soil erosion.

B - Soil erosion occurs during agricultural and development activities.

C - Removal of soil by legs and hoofs of animals is also a type of soil erosion.

Which of the above statements are correct?

(1) A only. (2) B only. (3) C only. (4) A, B, C all.

12. Select the answer which includes an energy source belongs to biomass and non biomass respectively?

(1) Cow dung, rice husk (2) Cow dung, Geothermal energy
 (3) Geothermal energy, fire wood (4) Coal, Kerosine oil

13. An advantage of using solar cells is;

(1) not causing for environmental pollution.
 (2) very expensive.
 (3) Low efficiency during rainy days.
 (4) Only small amount of electricity can be stored in batteries in solar cells.

14. Not an instance of helping the body colour to animals,

(1) to survive according to the colour of environment.
 (2) to find prey easily.
 (3) to help the growth of body.
 (4) to protect from predators.

15. What is measured in milli bars,

(1) density (2) atmospheric pressure
 (3) liquid pressure (4) blood pressure

16. Several colours are used for informing consumers about sugar contents in soft drinks. What is the colour mentioned on the label of bottle to indicate high sugar content.

(1) White (2) Green (3) Orange (4) Red

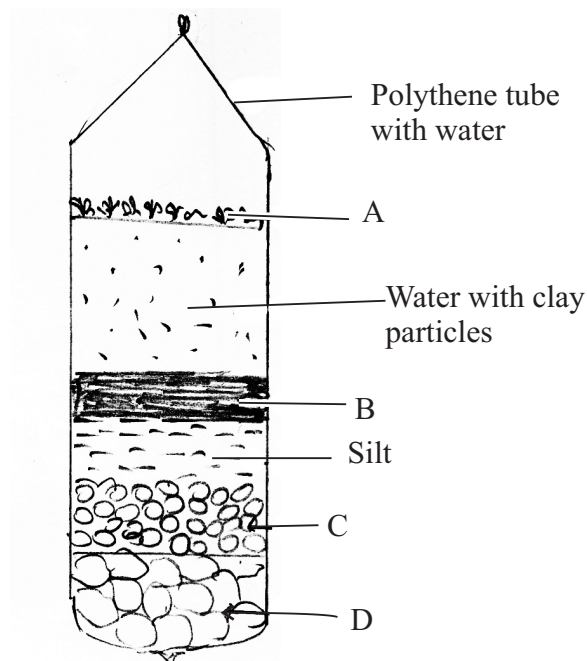
- If the following statements are correct put '✓', if not put 'X' for question number 17 to 20.

17. Constipation can be prevented by having food which are rich in fibres. ()
 18. Plutonium is not a radioactive element. ()
 19. Retention of air is high in clay soil. ()
 20. When grinding chillies both pull and push are applied. ()

- Question number 01 is compulsory.
- Answer 05 questions selecting question number 01 and another 04 questions.

01. Below shows a diagram of an activity done by a group of students who are studying in grade 7, for separation of components in soil.

- (i) Name A, B, C, D. (02m.)
- (ii) There are 3 types of soil which can be identified according to the abundance of particles in soil. Name 02 types of soil among them. (02m.)
- (iii) Draw a named diagram of an activity to show that soil contains water. (02m.)
- (iv) Mention 02 methods that can be applied to minimize soil erosion. (02m.)
- (v) What are called as soil organic materials. (01m.)



02. Thusitha who is studying in grade 7, told his friend that ice changes to water at a constant temperature. Following materials are supplied by them to find out this constant temperature.

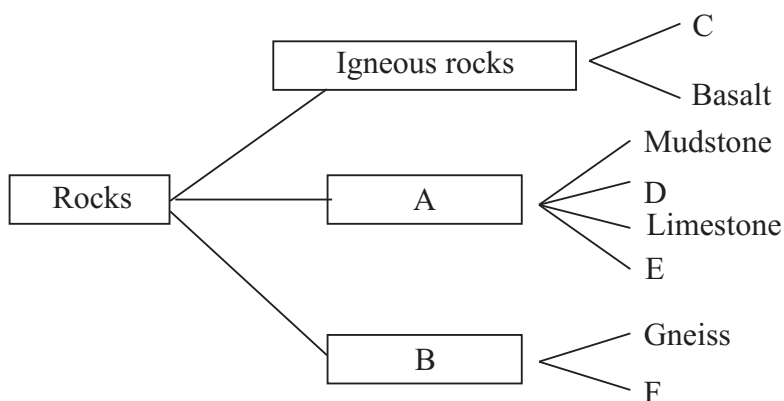
- ♦ A few pieces of ice cubes.
- ♦ A thermometer.
- ♦ A glass funnel.
- ♦ A beaker.
- ♦ A stand.

- (i) Draw a named diagram of the activity done by these two students. (02m.)
- (ii) Mention the constant temperature that ice changes to water. (01m.)
- (iii) Define the melting point of a substance. (02m.)
- (iv) When a substance is heated, its volume increases without changing its mass by gaining heat. How is it defined scientifically? (01m.)
- (v) Write 02 temperature scales used for measuring temperature. (02m.)
- (vi) What is the method of heat transfer that causes for occurring of sea breeze and land breeze. (01m.)

03. Hasitha ate string hoppers, dhal and coconut sambola as the breakfast before comes to school.

- (i) What is the abundant food nutrient contain in string hoppers? (01m.)
- (ii) What is the chemical substance used in the laboratory to identify this nutrient contains in the food? (01m.)
- (iii) What is the observation when a drop of that chemical is put on a string hopper? (01m.)
- (iv) What is the food item here, having a nutrient which can be identified using Sodium hydroxide and Copper Sulphate? (01m.)
- (v) Write the food item rich in lipids among the above food items. (01m.)
- (vi) Write a simple activity to identify lipids. (01m.)

04. Below shows the categories of rocks and some example for them.



- (i) Name A, B, C, D, E, F according to the categorization of rocks. (03m.)
- (ii) Tabulate 02 differences between rocks and minerals. (02m.)

Minerals	Rocks
1.	
2.	

(iii) Following materials are supplied by a student to test whether acids cause rock weathering.

- ♦ Limestones
- ♦ Vinegar
- ♦ a glass container

- a) Draw a diagram of the activity. Which is done by you. (02m.)
- b) Write an observation of this activity. (01m.)
- (iv) Rock weathering occurs in three ways. Write one of them. (01m.)

05. (i) Classify following energy sources as renewable and non-renewable energy sources.

(natural gases / solar power / mineral oil / bio mass / geothermal energy / nuclear energy)

Renewable energy sources	Non-renewable energy sources

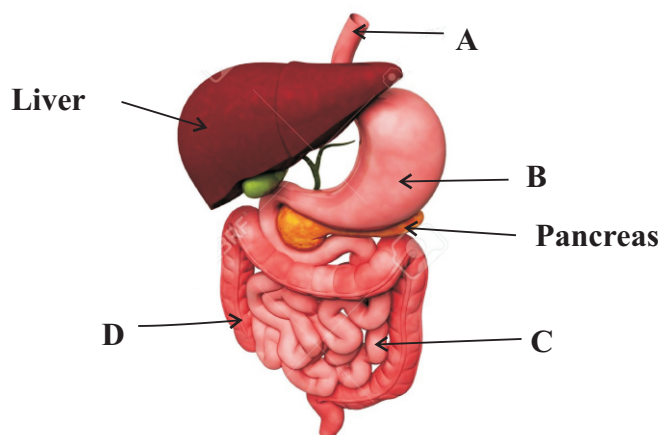
(03m.)

- (ii) Write 02 strategies for sustainable usage of energy sources. (02m.)

- (iii) Write 02 advantages of using wind as an energy source. (02m.)

- (iv) Write two activities you can take to conserve electricity at home. (02m.)

06. Following diagram shows a system with several organs in the human body.



- (i) To which system does the above diagram belong to? (01m.)

- (ii) Name the parts A, B, C, D in the diagram. (02m.)

- (iii) In which organ the food is temporarily stored for about three hours in the above system. (01m.)

- (iv) Mention structures which present in the small intestine to absorb digestive food. (01m.)

- (v) Write another 02 systems in the human body except the system shown by the above diagram. (02m.)

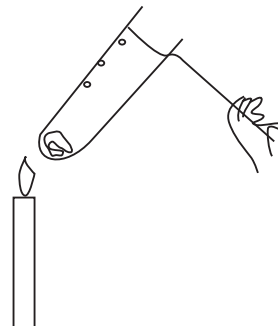
- (vi) Name a system in the plant body and write an organ belong to that system. (02m.)

ANSWER PAPER - I

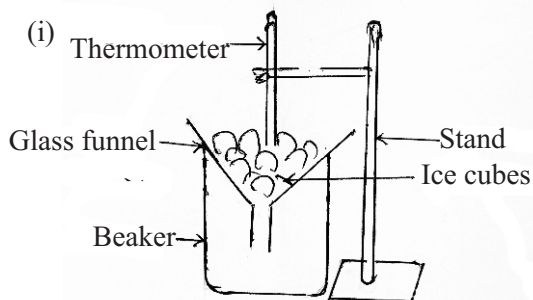
01. (4) 02. (2) 03. (1) 04. (1) 05. (2) 06. (3) 07. (3) 08. (1) 09. (3) 10. (4)
 11. (4) 12. (2) 13. (1) 14. (3) 15. (2) 16. (4) 17. (✓) 18. (X) 19. (X) 20. (✓)

PAPER - II

01. (i) A - Plants and animal parts (iii) (02m.)
 B - Clay C - hard sand D - gravel (02m.)
 (ii) Clay soil, Sandy soil, loamy soil (02 marks for two - 02m.)
 (iv) ♦ Make stone ridges against the slope.
 ♦ Make drains according to contours.
 ♦ Cultivate according to the contour method.
 ♦ Use cover crops with highly rooted plants.
 ♦ Prepare fields according to terraced system.
 ♦ Use wind breakers. (02 marks for 02 answers - 02m.)
 (v) Decayed parts of animals and plants in soil. (01m.)

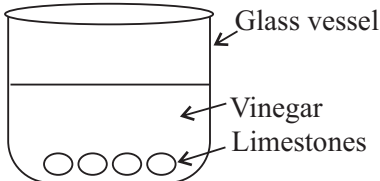


02. (i) Thermometer (ii) 0°C / 0 Celsius degrees (01m.)
 (iii) The constant temperature at which a solid (02m.)
 (iv) Expansion (01m.)
 (v) Celcius scale, Farenheit scale, Kelvin (02m.)
 (vi) Convection (02 marks for 02 answers) (01m.)



03. (i) Carbohydrates / Starch (01m.) (ii) Iodine (01m.)
 (iii) food turns to the colour of purple - blue (01m.)
 (iv) Dhal (01m.) (v) Coconut sambol (01m.)
 (vi) Rubbing food on a white coloured paper (A translucent oily patch can be observed) (01m.)
 (vii) Proteins, Carbohydrates, Lipids, Vitamins, Minerals (02m.)
 (viii) Reduce the absorption of fat in the diet to the body / Decrease the absorption of sugar in the diet to the body / Prevent the constipation / Reduce the risk of causing disease like piles (01m.)

(marks 09)

04. (i) A - Sedimentary rocks B - Metamorphic rocks C - Granite
 D, E - Siltstone / sand stone / conglomerate F - marble (03m.)
 (ii) Minerals Rocks
 1. Have definite geometrical shapes do not have definite geometrical shapes
 2. Made up of one components Mixture of several components (02m.)
 (iii) a)  (02m.)
 b) Emitting air bubbles Limestone dissolve gradually (01m.)
 (iv) Chemical weathering / Physical weathering / Mechanical weathering / Biological weathering (01m.)

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05. (i) Renewable - Solar energy, Bio mass, Geothermal energy
Non-renewable - Natural gases, Mineral oil, Nuclear energy (03m.)
(ii) Answers according to the Page No. 129 at text book. (02m.)
(iii) ♦ Not cause for air pollution ♦ Can be obtained free of charge. (02m.)
(iv) ♦ Not opening the door of refrigerator frequently. ♦ Switching - off unnecessary bulbs (or any acceptable answers.)
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06. (i) Digestive system (01m.)
(ii) A - Oesophagus B - Stomach C - Small intestine D - Large intestine (02m.)
(iii) B / Stomach (01m.)
(iv) Vill (01m.)
(v) ♦ Nervous system ♦ Respiratory system ♦ Reproductive system ♦ Excretory system
♦ Blood circulatory system (02m.)
(vi) Shoot system - Flowers, fruits, stem, Branches, Buds (01m.) - w (01m.)
or
Root system (01m.) - Tap root, Fibrous roots, Lateral roots (01m.) (02m.)
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