



Name: \_\_\_\_\_

Subject: \_\_\_\_\_

14-07-2016

2<sup>nd</sup> Term Test - 2016

Grade-9

Science.

2 hrs.

PART I

\* Answer all the questions.

- (1) Standard International unit of acceleration is,  
 1)  $ms^{-1}$     2) ms    3)  $ms^{-2}$     4)  $kmb^{-1}$
- (2) The scientist who was presented the law of conservation of mass  
 1) Benjamin Franklin    2) Lavoisier  
 3) J.J. Thompson    4) Alexander Fleming.
- (3) The composition of Nichrome is,  
 1) Silver, mercury    2) Mercury, Tin  
 3) Aluminium, Gold    4) Nickel and chromium.
- (4) object used to magnify small letters.  
 1) Prism binocular    2) simple microscope    3) Telescope  
 4) compound microscope.
- (5) Not a renewable energy.  
 1) wind    2) solar power    3) potential energy of water  
 4) Natural gas.
- (6) The "Heliocentric model" was strongly advocated by,  
 1) Aristarcus    2) Aristotle    3) copernicus    4) Ptolemy.
- (7) The first step of the Scientific method is,  
 1) formulation of hypothesis.    2) creating a problem  
 3) Testing the hypothesis.    4) observation.
- (8) who was presented the new method of symbolizing elements  
 1) Pythagorus    2) chadwick    3) Dalton    4) Thompson

- (9) The element burns with a blue flame and gives off a choking smell
- 1) sulphur
  - 2) Magnesium
  - 3) Sodium
  - 4) Carbon.
- (10) Grinded ethal solution is mixed with biuret solution what is the colour change?
- 1) Brick red
  - 2) Purple
  - 3) Darkblue
  - 4) Yellow.
- (11) Who was first developed the simple cell.
- 1) Michael faraday
  - 2) Gaston plantae
  - 3) Alexander fleming
  - 4) Alexandro volta.
- (12) Example for a chemical reaction
- 1) Dissolving salts in water
  - 2) Burning sulphur
  - 3) Melting ice
  - 4) adding drop of ink into water.
- (13) Example for a renewable energy source.
- 1) Solar energy
  - 2) fossil fuels
  - 3) coal
  - 4) Natural gas.
- (14) A disease caused by bacteria
- 1) Malaria
  - 2) Aluham
  - 3) tuberculosis
  - 4) AIDS
- (15) Putrefaction means
- 1) Solidifying lipids and oil
  - 2) spoilage of protein
  - 3) conservation of food.
  - 4) Increasing the quality of the food.
- (16) A characteristic of metals
- 1) Ductility
  - 2) Plasticity
  - 3) <sup>do not</sup> conduct heat
  - 4) <sup>conduct</sup> Electricity.
- (17) composite strengthened by small particles.
- 1) Packing of milk powder
  - 2) cement mortar
  - 3) Ply wood
  - 4) Coir mattresses.
- (18) Best packing material for canned fish, Vegetable, Vegetable seeds and gums.
- 1) Polythene coated Aluminium.
  - 2) Polymer bags and vessels.
  - 3) Aluminium tubes
  - 4) Tin coated iron vessels.

(19) Type of energy used by the cyclist.

- 1) Kinetic energy
- 2) Chemical energy
- 3) fuel energy
- 4) mechanical energy.

(20) Example for an endothermic reaction.

- 1) reaction of copper with Nitric
- 2) reaction of Calcium oxide with water.
- 3) reaction of piece of sodium with water.
- 4) reaction of urea and water.

### PART II

Answer all the Questions.

① Micro-organisms are very important to maintain the balance of the environment.

1) Write 2 harmful effects of micro-organisms.

2) Write 3 uses of micro-organisms.

3) Name the type of micro-organisms who caused following diseases

a) Dengue

c) malaria

b) Rabies

d) tuberculosis.

4) What is antibiotic?

5) Write 2 antibiotics.

② Different energy resources and machines are used in our daily activities to do our work efficiently. Energy crisis has arisen as a result of high consumption.

1) Explain the difference between primary and secondary energy sources.

2) Write 2 examples for each energy resource.

3) Write 3 alternative energy resources that can be used as a solution for the energy crisis.

4) Draw a flow chart to show the energy conversion takes place in norrechhole thermal power station when producing electricity.

5) Name 4 simple machines.

③ 1) A vehicle starts from rest, increased its speed up to  $40 \text{ ms}^{-1}$  within 30 seconds. It travels another 10 seconds with the same speed. After applying brake the vehicle stops within 5 seconds.

i) Find the acceleration of the vehicle

2) Find the deceleration of the vehicle.

2) A cyclist starts a journey from point A. He travels 200m along a linear path to the East direction within 10 seconds. He stops at B. Then turns around and travels along the same path. He passes point A and travels another 200m along a linear path.

i) Find the total distance travelled by the cyclist.

ii) Find his displacement.

iii) Find the speed of the cyclist from A to B.

④ i) Name 3 systems of the microscope.

2) Write a use of the desicator in the lab.

3) What is the sickle shaped bright constellation in the night sky.

4) What is a nebula.

5) Name 2 galaxies that can be seen by the naked eye.

6) Name the most accepted theory which explain the origin of the universe.

# REFERENCE ONLY

14-07-2016  
Science  
Grade 9.

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A balanced diet is very important for a healthy life. Correct proportion of nutrients are contained in a balanced diet.

- i) Name the main nutrients in food.
- ii) Name the type of nutrient which generate and stored energy
- iii) Which type of nutrient is more in the blood of a diabetic patient.
- iv) Write an experiment can be used to identify the above nutrient.
- v) What will be your observation?
- vi) A transparent patch is appeared on a paper which is rubbed with a food item. what is your conclusion?