



# Brilliant Academic Council

Final Term Assessment – 2018-19

Class –VII

Subject – SCIENCE

Time: 2:30 Hours

Date: 27.02.2019

M.M.80

Wednesday

## General instruction:

- Attempting questions are compulsory.
- All the answer should be written in the provided answer sheet with correct question number.
- Do not write anything in the Questions Paper except your Roll No.
- Overall choices are not given but internal choices are given.
- Draw diagram using pencil and label them in block letters.
- Only blue colour ball point pen should be used for writing. Outline to be drawn after the completion of every answer with pencil.
- Support the answer with diagram if required, draw a right-side margin to do the rough work/calculation.
- Section A consists of 5 questions and Section B consists of 6 questions.

## [ Section-A ]

- Answer in one word. 2x1=2
  - The basic unit of speed is .....
  - In ..... Reproduction both male and female parts are involved.
- Answer the following questions (20 – 30 words) any -3 3x2=6
  - Where is the bile produced? Which component of the food does it help to digest?
  - What is neutralization?
  - What is humus?
  - Name the material used for making:
    - filament of an electric bulb
    - heating element of an electric wire
- Answer the following questions (40 – 60 words) 10x3=30
  - Why does an athlete breathe faster and deeper than usual after finishing the race?
  - Why is blood needed by all the parts of a body?

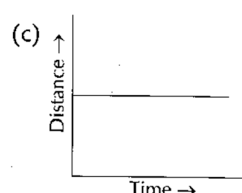
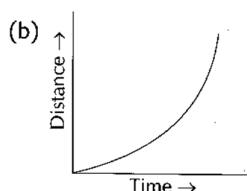
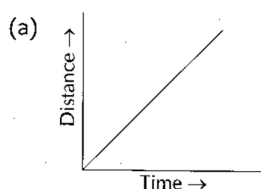
OR

Give reason for the following:

- Arteries have thick and elastic muscular walls.
- Transport of material is necessary in a plant or in an animal.
- A simple pendulum takes 32 seconds to complete 20 oscillations. What is the time period of the pendulum?

OR

What type of motion is shown by the following distance-time graphs?



- d) There are ten tube wells in a lane of fifty houses. What could be the long term impact on the water table?
- e) Why CFL is considered better than a filament based electric bulb?
- f) Write two difference between convex lens and concave lens.
- g) Write three characteristics of the image formed by plane mirror.

OR

What is a virtual image? Give one situation where a virtual image is formed.

- h) What are decomposers? Name any two of them. What do they do in forest?
- i) Why should oils and fats be not released in the drain? Explain.
- j) Do you think an electromagnet can be used for separating plastic bags from a garbage heap? Explain.

OR

Give the electrical symbols for - a) electric cell      b) battery      c) electric bulb

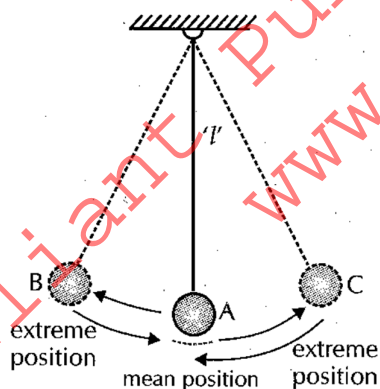
4. Answer the following questions (70 – 100 words) any -6 6x5=30
  - a) What is breathing rate? Draw the diagram of human respiratory system.
  - b) Differentiate between-
    - i. Pulmonary artery and pulmonary vein.
    - ii. Artery and vein.
  - c) Explain three different methods of asexual reproduction in plants with well labelled diagram.
  - d) What type of mirror is used as a side mirror in a scooter? Why is this type of mirror chosen? How can you distinguish between a concave mirror and convex mirror without touching them?
  - e) What can we do to preserve our forest? What is crown?
  - f) i) Define: a) water table      b) Aquifer  
ii) Untreated human excreta is a health hazard. Explain.
  - g) Write one similarity and one difference between the nutrition in amoeba and human beings. Why do we get instant energy from glucose?

(Section -B)

Answer these questions:

2x6=12

5. Look at the figure carefully;



- a) Which type of motion is shown by suspended pendulum?
  - b) What is the unit of time period?
6. If a piece of chapatti is chewed for some time, it tastes sweeter. Why?

7. Rohan wants to find out the distance his car travels to take him from his home to his school. Which instrument should he take a reading from the speedometer or the odometer and why?
8. In the figure of a flower, label the parts whose functions are given and give their names.



- i) The part which contains pollen grains.
- ii) The part where the female gamete is formed.
9. Rohan observes the following while doing an experiment.

Solution	P	Q	R
Blue litmus	Red	Deep Red	No change
Red litmus	No change	No change	Blue

- a) Which of these is strongly acidic and basic?
- b) Which two solutions will react to show neutralisation reaction?
10. 'A' got her gall bladder removed surgically as. She was diagnosed with stones in her gall bladder after the surgery, she faced problems in digestion of certain food items when consumed in bulk. Can you tell which kind of food items would they be and why?

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