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# INDIAN SCHOOL MUSCAT

## SECOND PERIODIC TEST

### SCIENCE

CLASS: X

Sub. Code: 086

Time Allotted: 50mts

13.09.2018

Max. Marks: 20

#### GENERAL INSTRUCTIONS:

- All Questions are compulsory.
- Draw diagrams if necessary.

#### PHYSICS

1. What enables the eye to focus objects at different distances? 1
2. A person needs a lens of power  $-5.5$  D for correcting his distant vision. For correcting his near vision, he needs a lens of power  $+1.5$ . What is the focal length of the lens required for correcting (i) distant vision (ii) near vision? 2
3. A student has difficulty reading the blackboard while sitting in the last row. What could be the defect the child is suffering from? How can it be corrected? 2
4. (i) Why do different colours deviate through different angles on passing through a prism? 2  
(ii) Why does sky look blue?

#### CHEMISTRY

5. Why should POP be stored in air tight containers? 1
6. A white powdery substance having strong smell of chlorine is used for disinfecting drinking water supply. Identify the substance, give chemical name and equation of its preparation? 2
7. a. Fresh milk has pH 6. How do you think that the pH will change as it turns into curd? 2  
b. Why does bee-sting cause pain and irritation? What relief can be given in such a case immediately?
8. Give exceptions in the following cases: 2  
a. All metals exist as solid at room temperature.  
b. Non-metals do not conduct electricity.  
c. Metals are hard.  
d. Solid non-metals are brittle.

#### BIOLOGY

9. How is brain and spinal cord protected in human body? 1
10. Name the plant hormone which help/promotes 1  
a) Cell division  
b) Growth of the stem and root.
11. Renu's father has been advised by a doctor to reduce his sugar intake. 2  
a) Name the disease he is suffering from and name the hormone whose deficiency is?  
b) Identify the gland that secretes it and mention the function of this hormone.
12. a) A potted plant is made to lie horizontally on the ground. Which part of the plant will show 2  
(i) Positive geotropism  
(ii) Negative geotropism  
b) Define reflex action.

End of the Question Paper