



**DAV PUBLIC SCHOOL, JHARSUGUDA**  
**Sample Paper for Annual Examination - 2017-18**

**Class- VII**  
**Subject- Science**

**Maximum Marks: 80**  
**Time: 3 hours**

**I. Choose the correct option from the following. [1×5=5]**

- The process which supplies food directly or indirectly to all living organism is called:-  
a)Nutrition      b)Respiration      c)Photosynthesis      d)Transportation
- The chemical reaction in which one element displaces another in a compound is called:-  
a)Combination reaction      b)Chemical reaction  
c)Decomposition reaction      d)displacement reaction
- The layer of soil which consists of unweathered rock is :-  
a)A horizon      b)B horizon      c)C horizon      d)R horizon
- The tree which is popularly known as miracle tree :-  
a)Eukalyptus      b)Neem      c)Banyan      d)Teak
- The % of fresh water readily available for use is:-  
a)97%      b)0.3%      c)0.7%      d)2%

**II. Give the answer of the following. [1×5=5]**

- What do you mean by neutralization reaction?
- What is the relation between heat and temperature?
- What is the need of cellular respiration?
- What do you mean by bisexual flower? Give one example.
- What is food web?

**III. Give the answer of the following. [2×11=22]**

- What do you mean by chemical formula? Write the steps involved in writing the chemical formula of Calcium Phosphate.
- Define the Decomposition reaction. Give an example of it.
- What do you mean by indicator? Name one natural and synthetic indicator each with its working.
- How anaerobic respiration in Yeast differ from that takes place in muscles cells during heavy physical exercise?
- What is fruit? Describe the process of formation of fruit.
- What is soil erosion? Write down 2 ways by which soil erosion can be prevented.
- Describe 2 laws of reflection of light with proper diagram.
- How weather can be differentiated from climate?
- Describe adaption by animals of the polar region.
- “Water is present in abundance but is still scarce.” Comment on the statement.
- Write down the difference between electric fuse and MCB’s.

**IV. Give the answer of the following [3×6=18]**

- What do you mean by saprotrophic nutrition? How it is related to extra cellular digestion? Describe the process of extra cellular digestion with example.
- Describe the process of breathing with the role of ribcage and diaphragm during exhalation and inhalation of air.
- What is the need of dispersal of seeds ? Describe 4 different ways of seed dispersal with example.
- Dram image formation by a concave mirror when the object is placed :-  
a) At ‘C’      b) At ‘F’
- What do you by heating effect of electric current? Write down its advantages and disadvantages?

6. VBQ

Rahul was suffering from toothache since last 2 days. His class teacher after knowing about this advised him to brush the teeth twice daily and avoid eating of sticky food and sweets, so that he can recover from this quickly.

- a) State two values displayed by Rahul's class teacher.
- b) Why the teacher advised Rahul to avoid sticky and sweet?
- c) What type of reaction takes place when we are brushing our teeth with toothpaste?

V. Give the answer of the following

[5×6=30]

1. a) What do you mean by digestion? (1+1+3)  
b) What are digestive glands?  
c) Describe functions and location of 3 main digestive glands in us.
2. a) Distinguish between clinical and laboratory thermometer. (2+3)  
b) Describe different physical changes taking place due to effect of heat with example.
3. a) Distinguish between uniform motion and non uniform motion. (2+1+2)  
b) What do you understand by speed?  
c) Suppose students of DAV on an educational tour have travelled a total distance of 528km in 8 hrs. What was the average speed during trip?
4. a) Why hemoglobin is called as respiratory carrier? (1+2+2)  
b) Distinguish between systole and diastole.  
c) Draw the diagram of the system which is responsible for excretion in human being.
5. a) What do you mean by earthing?  
b) Describe any method by which a given object can be charged? (2+1+2)  
c) Write down 2 disadvantages of lightening?
6. a) What do you mean by:- (2+3)  
(i) Fleece (ii) Scouring  
b) Describe the process of obtaining silk from silk moth.

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