

VILLA THERESA HIGH SCHOOL, MUMBAI

STD: - 7

Final Exam: - Mar - April '17

Time: - 2 hrs

10/04/17

Subject: - Science

Marks: - 75

SECTION A (Worksheet) - 35 Marks

NAME: - \_\_\_\_\_ DIV: - \_\_\_\_\_ ROLL NO:- \_\_\_\_\_

IA. Fill in the blanks.

[8]

- 1) The ratio of hydrogen to oxygen by volume is \_\_\_\_\_.
- 2) Gaseous exchange through gills is called \_\_\_\_\_.
- 3) The production and excretion of urine is termed \_\_\_\_\_.
- 4) The woody stem has opening called \_\_\_\_\_.
- 5) The normal atmosphere pressure is \_\_\_\_\_ mm of Hg.
- 6) The plant can be \_\_\_\_\_ by keeping it in dark for 2-3 days.
- 7) The \_\_\_\_\_ absorbs water from the undigested food.
- 8) The trachea in insects open to the outside through openings called \_\_\_\_\_.

I.B State whether True or false, if false rewrite the correct statement.[5]

- 1) Pure water is a good conductor of heat and electricity.  
\_\_\_\_\_

- 2) During hibernation frogs respire through skin.  
\_\_\_\_\_

- 3) Enzymes are biocatalyst.  
\_\_\_\_\_

- 4) Water is used as a coolant.  
\_\_\_\_\_

5) The presence of impurities increases the freezing point of a liquid.

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6) Euglena contains chlorophyll.

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7) Urea, uric acid, ammonia are the non-nitrogenous substances excreted by the kidneys.

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**I.C Write the chemical formula for the following.**

**[4]**

1) Mercury (II) chloride \_\_\_\_\_

2) Ammonium dichromate \_\_\_\_\_

3) Zinc sulphite \_\_\_\_\_

4) Manganese (IV) oxide \_\_\_\_\_

**I.D Name the following**

**[8]**

1) The structural and functional unit of kidney \_\_\_\_\_.

2) The opening through which urine is expelled out of the body \_\_\_\_\_.

3) A bile pigment \_\_\_\_\_.

4) Which English scientist prepared  $H_2$  gas by the action of  $H_2SO_4$  on metals?

\_\_\_\_\_.

5) Which part of small intestine is the main site of absorption \_\_\_\_\_.

6) The last molar in each jaw is commonly known as \_\_\_\_\_.

7) The process in which chlorine gas is used to disinfect the water \_\_\_\_\_.

8) The mode of nutrition in which organisms are unable to prepare its own food

\_\_\_\_\_.

**I.E Find the odd one out, giving reasons.**

**[3]**

1) Tiger, lion, cats, giraffe

\_\_\_\_\_

2) Breadmould, loranthus, mistletoe, tapeworm

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3) Lungs, liver, skin, stomach

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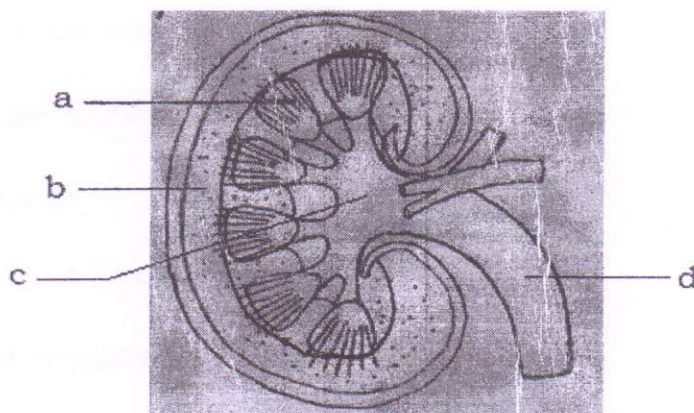
**I.F Balance the following equation.**

**[5]**



**I.G Observe the diagram of longitudinal section of kidney and label the parts.**

**[2]**



a \_\_\_\_\_, b \_\_\_\_\_, c \_\_\_\_\_, d \_\_\_\_\_



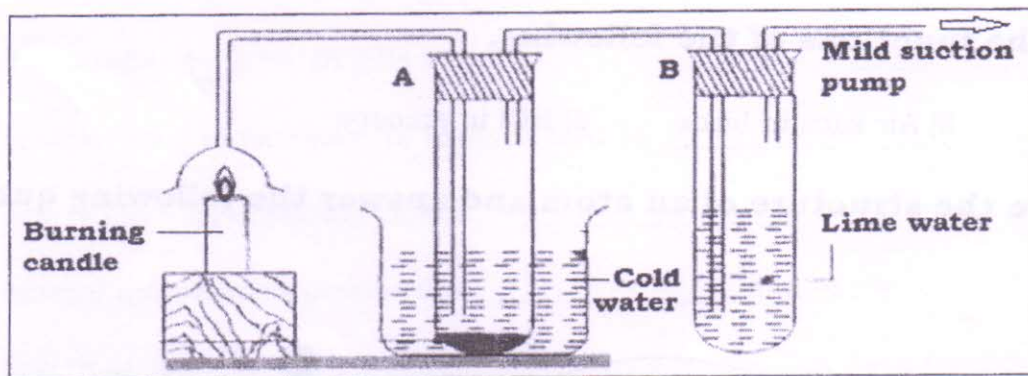
**SECTION B (To be written on the answer sheet) – 40 marks****II.A Define**

[4]

- 1) Electrolysis
- 2) Solution
- 3) Excretion
- 4) Transpiration

**II.B Observe the given diagram of burning of carbonaceous compounds carefully and answer the following questions.**

[5]



- 1) What happens to the lime water in the tube 'B'? Why? [2]
- 2) Name the liquid present in test tube 'A'. [1]
- 3) Which test is performed to check the liquid in tube 'A'? [2]

**II.C** What is a semi permeable membrane? [1]

**III.A Distinguish between the following.** [4]

- 1) Cathode and Anode
- 2) Photosynthesis and Respiration

**III.B Name the organs of respiration** [3]

- 1) Fishes
- 2) Earthworm
- 3) Humans

**III.C** Explain the three processes used in the purification of drinking water for removing suspended impurities. [3]

**IV.A Give reasons** [8]

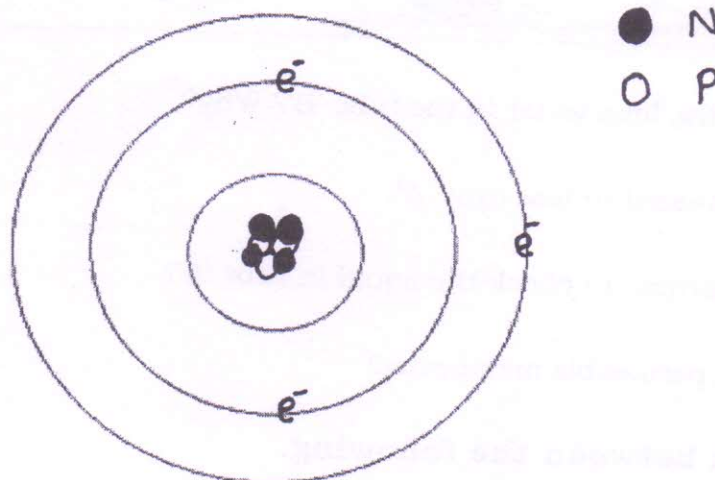
- 1) In Pressure cookers food gets cooked faster.
- 2) In cold region ice formed in lakes and ponds help the aquatic organisms to survive.
- 3) Single cell organism does not have breathing apparatus.
- 4) Plants respire anaerobically in adverse condition.

**IV.B** Name and explain the components of urinary system. [2]

**V.A State the functions of the following.** [3]

- 1) Gill rakers
- 2) Air sacs in birds
- 3) HCl in amoeba

**V.B Observe the structure of an atom and answer the following questions.** [3]



- 1) The above structure belongs to which element? [1]
- 2) What is its atomic number? [1]
- 3) Calculate its mass number using formula. [1]

**V.C** Explain the mechanism of inspiration and expiration. [4]

x-----x-----x

