

Name- \_\_\_\_\_

Sec. : \_\_\_\_\_ Roll No. : \_\_\_\_\_

JB Academy  
Annual Examination : 2019-20  
Class VII (Science)

Time : 03 hrs.

MM = 80

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**A.** Answer the following questions in very short.

2x5=10

a. Why do we sneeze?

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b. Define phagocytosis. What are thin walled projections called?

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c. What are three types of blood cells? Give their functions.

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d. Draw a well labelled sketch of pistil.

e. What artificial mode of propagation would you adopt in order to get superior variety of Mango? Why?

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B. Answer in short.

5x3=15

a. What is the function of kidney? How does skin help to keep our body cool in summer?

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b. i. Convert 6 hours into minutes and seconds.

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ii. How can you change the time period of a simple pendulum?

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c. i. What is Nichrome?

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ii. Explain

CFL

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MCB

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d. Explain cloud burst. How does it occur?

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e. Difference between regular and irregular reflection with diagram.

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**C.** Answer in detail.

5x4=20

a. Draw a rain water harvesting system. Explain its components.

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b. Explain how ecosystem is maintained in a forest?

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c. i. What was waste water management in Indus Valley civilization?

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ii. Why waste water should be managed efficiently?

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d. i. Explain reaction involved in formation of sodium chloride.

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ii. Define

a. Water of crystallization with Examples

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b. Alkalies

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e. i. Describe 2 ways to prevent rusting

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ii. Give 2 examples of reactions where heat is liberated.

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D. Fill in the blanks.

10x½=5

- a. Calcium Hydroxide + Nitric Acid  $\longrightarrow$  \_\_\_\_\_ + water
- b. Metabolism is a complex chemical process taking place in all \_\_\_\_\_ organisms.
- c. \_\_\_\_\_ and \_\_\_\_\_ are two forces responsible for uptake of water by plants.
- d. Blood cells deficiency of which causes anaemia \_\_\_\_\_.
- e. The fusion of male and female gamete is called \_\_\_\_\_.
- f. Spore formation is a means of \_\_\_\_\_ reproduction.
- g. The presence of \_\_\_\_\_ in veins prevents backflow of blood.
- h. The male reproductive whorl of flower is \_\_\_\_\_.
- i. \_\_\_\_\_ is a pictorial representation of two variables.
- j. An electric current is a flow of \_\_\_\_\_.

E. Analogy type.

5x1=5

- a. Binary fission : Amoeba :: Yeast : \_\_\_\_\_.
- b. Current : Ampere :: Voltage : \_\_\_\_\_.
- c. Transportation : Less of water :: \_\_\_\_\_ : transportation of food.
- d. Speed of wind : Anemometer :: Direction of wind : \_\_\_\_\_.
- e. Jaundice : Water borne :: \_\_\_\_\_ : Air borne disease.

F. Activity based questions.

5x3=15

- a. Demonstrate an activity to show hot air expands and rises.

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b. How will you show the change in speed and change in direction of light when it enters from one medium to another medium?

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c. 1. Explain 3 ancient ways of water conservation.

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2. State and explain 4 different ways to conserve water while irrigation their field.

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**G. Reasoning questions.**

10x1=10

a. Kneaded flour become fluffy after exposing them in open for a long time.

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b. Earthworm has a moist and slimy skin.

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c. Left kidney is slightly raised as compared to the right kidney in human.

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d. Winter monsoons bring small amount of rain in southern part of India.

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e. A strip of paper rises after blowing over it's surface.

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f. A ray of light bends when it passes from air to water.

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g. Forest helps to increase humidity of atmosphere.

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h. The treated sludge is nutrient rich.

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i. Our nose bleeds when we climb up the mountains.

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j. Nowadays MCB's are used instead of fuse wire.

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