

**Maharshi Patanjali Viday Mandir, Prayagraj**  
**Annual Examination 2018-19 Set-3**  
**Class 8 Science**

**[Time : 3 Hrs. ][MM : 80]**

**Section A : Biology / Chemistry**

I. Fill in the blanks- ( $1/2 \times 10=5$ )

1. \_\_\_\_\_ is the youngest of coal & \_\_\_\_\_ is the oldest variety of coal.
2. \_\_\_\_\_ zone of candle flame is coolest while \_\_\_\_\_ zone of the candle flame is hottest.
3. \_\_\_\_\_ and \_\_\_\_\_ are examples of unicellular organisms.
4. Hydra reproduces by \_\_\_\_\_ and Amoeba reproduces by \_\_\_\_\_.
5. Water gets polluted by \_\_\_\_\_ & \_\_\_\_\_.

II. Multiple choice questions - ( $1/2 \times 4=2$ )

1. When water is stored, the suspended particles settle at the bottom. This is called
  - a. sedimentation
  - b. decantation
  - c. filtration
2. Which of the following has highest ignition temperature?
  - a. petrol
  - b. LPG
  - c. wood
3. Female produce
  - a. Two types of ova
  - b. One type of ova
  - c. None of these
4. The residue left after the fractional distillation of coal tar is called
  - a. toluene
  - b. pitch
  - c. residual oil

III. Give one word for the following- ( $1/2 \times 4=2$ )

1. The useful products obtained from Petroleum.
2. The zone which consist unburnt wax vapors.
3. The hormone that controls metamorphosis in frog.
4. Power houses of a cell.

IV. Correct the following statements- ( $1/2 \times 4=2$ )

1. Anaerobic bacteria act on wood in the presence of air.
2. "Marble cancer" of Taj Mahal is due to soot.
3. Bacteria has a Eukaryotic cell.
4. Voice box is bigger in boys and is called as pharynx.

V. Define the following- ( $1 \times 4=4$ )

1. Testosterone
2. Fossil fuels
3. Combustible material
4. Ductility

VI. Give one point of difference- ( $1 \times 4=4$ )

1. Safety matches and Lucifer matches
2. Internal and external fertilisation
3. Pure air and polluted air
4. Menarche and menopause

VII. Give one reason for the following- ( $1 \times 6=6$ )

1. Coal gas has a slightly foul smell.
2. Sand is poured to extinguish fire caused by wood.
3. Gravel and charcoal are used for the purification of water.
4. Aluminium foils are used for packaging.
5. Adolescents should take balanced diet.
6. We should use smokeless chulhas and solar cookers.

VIII. Very short answer type questions- ( $1 \times 5=5$ )

1. Write one function each of insulin and adrenalin.
2. Write any two characteristics of sperm.
3. Name the fraction from which paraffin wax is obtained during fractional distillation.  
Mention one use of it.
4. Give one example to prove that supporter of combustion is necessary for combustion.
5. Mention any two characteristics of drinking water.

IX. Short answer type questions- ( $2 \times 4 = 8$ )

1. Mention the function of the organs of male reproductive system.
2. Write a short note on endocrine glands
3. Why does a plant cell have a cell wall and chloroplasts?
4. Explain the two modes of reproduction.

X. Long answers type question- ( $3 \times 3 = 9$ )

1. Write one harmful effect of each-
  - i. Acid rain
  - ii. Depletion of ozone layer
  - iii. Greenhouse effect
  - iv. Sewage released in rivers
  - v. Carbon monoxide
  - vi. Fertilisers and pesticides
2. Mention -
  - a. Three conditions necessary for combustion.
  - b. Three characteristics of good fuel.
3. What are sex hormones? Why are they so called? Mention their functions.

XI. Complete the equations- ( $1 \times 3 = 3$ )

1.  $\text{Mg} + \text{H}_2\text{O} \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$
2.  $\text{Sn} + \text{H}_2\text{SO}_4 \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$
3.  $\text{CaO} + 2\text{HCl} \rightarrow \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

XII. Draw a well labelled diagram of ( $4 + 1 = 5$ )

1. Destructive distillation of coal.
2. Write two uses of coke.

### Section B: Physics

#### I. Multiple Choice Questions- ( $4 \times \frac{1}{2} = 2$ )

1. The maximum force required to make one body just to slide over another body is known as
  - a. Static friction
  - b. Kinetic friction
  - c. Limiting friction
  - d. None of these
2. Image formed in a plane mirror is-
  - a. real
  - b. inverted
  - c. same size as the object
  - d. formed at the same distance in front of the mirror as the object is in front of it.
3. The point directly above the origin point of the earthquake under surface of the earth is called.
  - a. Seismic focus
  - b. Seismic front
  - c. Epicenter
  - d. both (a) and (b)
4. Which one of the following is not a member of our solar system?
  - a. comet
  - b. constellation
  - c. asteroid
  - d. meteoroids

#### II. Fill in the blanks- ( $4 \times \frac{1}{2} = 2$ )

1. Boats and aeroplanes are \_\_\_\_\_ so as to reduce fluid friction.
2. \_\_\_\_\_ friction is a self-adjusting force.
3. \_\_\_\_\_ measures and records the intensity of seismic waves.

4. \_\_\_\_\_ and opposite charges are produced during electrification.

III. True or False- ( $2 \times \frac{1}{2} = 1$ )

1. Moon revolves around the earth in  $29\frac{1}{2}$  days.
2. Mercury is the hottest planet.

IV. Answer the following questions-

1. What is constellation? How is a Constellation different from a star? (2)
2. Give two differences between real and virtual images. (2)
3. What is a lightening conductor? How does a lightening conductor prevent damage to buildings during lighting? (2)
4. How is rolling friction caused? (2)

V. Draw a neat and fully labeled diagram of the human eye. (3)

VI. What is "a light minute"? How many light minutes away is the earth from the sun?

Express this distance in kilometers. (3)

VII. what is universe? Name six different kinds of heavenly bodies found in the universe? (3)

VIII. What do you understand by the terms- (3)

- a. hypocenter
- b. earthquake
- c. epicentre