

JB ACADEMY, AYODHYA
HALF YEARLY EXAMINATION 2025-26
CLASS – VIII, SUBJECT – SCIENCE

TIME- 3.00 hr

M.M – 80

INSTRUCTIONS –

- 1. All the questions are compulsory**
- 2. Do neat and clean work**
- 3. Draw diagram on requirement**

SECTION - A

Q1. Choose the correct answers for the following -

(1X10=10)

- (i) Transplantation is done in the case of-
a. Wheat b. Paddy c. Maize d. Barley
- (ii) A dropper used to fill eyedrops works because of –
a. Magnetic force b. Friction c. Air pressure d. Electrostatic force
- (iii) Dispersion of the white light by a prism is due to –
a. Speed of light b. Reflection of light c. Nature of light d. Refraction
- (iv) Which of the force is only attractive –
a. Muscular force b. Magnetic force c. Frictional force d. Gravitational force
- (v) What does cells of our body produce to fight against diseases causing microbes
a. Antibodies b. Antibiotics c. vaccine d. infection.
- (vi) Inhaling this gas can be fatal –
a. Oxygen b. Carbon mono oxide c. Carbon dioxide d. hydrogen
- (vii) Pressure at the bottom of the sea is -
a. High b. Low c. Medium d. least
- (viii) Which of the following is used in machines to reduce Friction –
a. Paint b. Lubricants c. coarse gravel d. sand
- (ix) The front part of the eye is called-
a. Cornea b. Iris c. Pupil d. Retina
- (x) To sharpen the blade of a knife by rubbing it against a surface ,which of the following will be most suitable-
a. Stone b. Plastic block c. Wooden block d. Glass block

Q2. Give answers for the following -

(1X10=10)

- (i) What is the name given to the disease causing Microorganisms.
- (ii) What are Chenopodium, Amaranthus and wild oat together known as ?
- (iii) Name the nerve which carries image to the Brain.
- (iv) Name two edible Fungi.
- (v) Unscramble YGROBVI .
- (vi) Which fuel has highest Calorific value and how much ?
- (vii) When you rub your hands together they become warm .what is this due to ?
- (viii) Any two food items to be taken for good eye sight .
- (ix) What are the tall structures ,used to store grains known as ?
- (x) The Frictional force exerted by the fluids is called -----.

Q3. Read the passage carefully and answer the questions given below – (1X5=5)

Taj Mahal ,the great wonder of the world ,made of white marble, is chemically Calcium carbonate and has been found turning yellow due to smoke coming from Mathura oil refinery ,vehicular pollution and industries which contain high level Of sulphur di oxide,nitrogen di oxide and carbon di oxide gases. These pollutants combine with rain water to form acid rain .Supreme Court of India has given strict orders to the industries to switch to clean fuels such as CNG,LPG and unleaded Petrol to prevent air pollution and protect the Environment.

- (i) What is Marble chemically ?
- (ii) List any two reasons for the discoloration of the monument .
- (iii) What is Acid rain ?
- (iv) Which gases are responsible for Acid rain ?
- (v) What are the preventive measures to protect the monument ?

Q4.Fill the blank spaces with suitable words (0.5X10=5)

Agricultural Practice includes the following steps -----1-----,-----2-----,-----3-----
-----4-----,-----5-----,-----6-----and -----7----- .The main
Implements used here are -----8-----,-----9-----and -----10-----.

SECTION - B

Q5. Write brief answers for the following (2X10=20)

- (i) List any four ways to reduce Friction
- (ii) An object has mass of 40 Kg .What will be it's weight on Earth.
- (iii) What are the 2 main crop seasons .Explain with 2 Examples each.
- (iv) Define – (a) Antibiotics (b) Ignition temperature
- (v) Where do you find use of Rolling friction in your daily life? Give 2 examples
- (vi) What are the 4 major group of Microorganisms.State one harmful and one useful effect of any one type of microorganism .
- (vii) Why is calorific value of any fuel important ? In an experiment 1.5 kg of a fuel was completely burnt .The heat produced was measured to be 67,500 kj Calculate the calorific value of the fuel.
- (viii) What are Iris and Pupil ? State their function? What holds the eye lense at it's position.
- (ix) Draw a diagram to show different zones of a candle flame .
- (x) State any four effect of force .

SECTION - C

Q6. Answer the following questions (3X5=15)

- (i) What is Multiple Reflection ? How many images will be formed if 2 plane mirrors are –
 - a. Inclined at an angle of 40°
 - b. kept at a distance of 30 cm
- (ii) How is Pressure related to area ? A girl weighs 50 Kg is standing on the ground. If area under her one heel is 2cm^2 , what will be the pressure exerted by her ,as she is standing on both feet.

(iii) Consider these situations and explain the role played by friction in each case with reason -

- (a) Aman applies some talcum powder on the carrom board.
- (b) A driver applies break to stop the car
- (c) Gymnasts apply some coarse substance to their hands

(iv) Differentiate between –(Any three)

- (a) Regular and Irregular Reflection
- (b) Manure and Fertilisers
- (c) Contact and Non-Contact Force
- (d) Static and Sliding Friction
- (e) Combustible and Non- Combustible materials

SECTION - D

Q7. Give reason for the following -

(1X5=5)

- (a) Soil is loosened before sowing seeds
- (b) Carbon di oxide gas helps in extinguishing fire
- (c) Infants and young children are given vaccination.
- (d) When a ball is thrown upward it's speed decreases
- (e) LPG is better fuel than wood.

Q8. Why is Nitrogen important for living Beings. Explain Nitrogen cycle with the help of a Flow diagram.

(5)

Q9. State the Laws of reflection. Locate the image of a point size object kept at a distance of 4.5cm in front of a plane mirror. Also list the charecterstics of image formed here.

(5)