



U. S. OSTWAL INTERNATIONAL SCHOOL

OSTWAL WONDER CITY, BOISAR (E)

TERM -1

Name : _____

Date :

Roll.no. _____

Max. marks : 60

Grade : VII

Time : 2hr30min

Subject –Physics

General Instructions:

- All questions are compulsory
- Do not write the questions. Directly write the answers.
- Write the paper neatly.
- 10 min for reading

Q.1) Fill in the blanks.

(06)

- 1) The SI unit of energy is _____.
- 2) _____ energy is utilized by the plants during the process of photosynthesis.
- 3) In a microphone , the _____ energy gets converted into the electrical energy.
- 4) The image that can be obtained on a screen is called _____.
- 5) We see the objects around us because they _____ light
- 6) The speed of light _____ on entering a medium from vacuum.

Q.2) Choose the correct answer.

(06)

- 1) While burning the wood , the chemical energy changes to _____
 - a) Kinetic energy
 - b) Heat energy
 - c) Potential energy
 - d) Mechanical energy
- 2) Which of the following is not a unit of energy ?
 - a) joule
 - b) Nm
 - c) Newton
 - d) Calorie
- 3) When fire crackers burst, the chemical energy changes to _____
 - a) heat energy
 - b) sound energy
 - c) light energy
 - d) heat ,sound and light energy
- 4) According to the laws of reflection , the angle of incidence is _____ the angle of reflection.
 - a) less than
 - b) equal to

c) greater than

d) always twice

5) The normal to the surface is drawn _____ to the surface.

a) parallel

b) at an angle

c) perpendicular

d) none of these

6) which of the following is not a characteristics of the image formed by a plane mirror ?

a) Inverted

b) Virtual

c) Formed behind the mirror

d) Laterally inverted

Q. 3) State wherher the following statements are true (T) or false (F). (06)

1) A book lying on the study table has no energy.

2) A solar cell converts the light energy to electrical energy.

3) The muscular energy is derived from the chemical energy stored in the food that we eat.

4) Plane mirror is a good reflector.

5) Plane mirrors form a real and inverted image.

6) White light is obtained on mixing the secondary colours.

Q.4) Match the column. (05)

1) Heat energy

a) Running water

2) Nuclear energy

b) MRI

3) Solar energy

c) Burning of coal

4) Magnetic energy

d) Atom bomb

5) Kinetic energy

e) Sun

Q.5) Give reasons for the following statements.

(Any 5)

(10)

1) When a piece of rock stone falls on the ground from a height , it makes deeper impression.

2) Water stored in dams is able to turn the blades of a turbine.

3) The motion of a simple pendulum is an example of law of conservation of energy.

4) We cannot see things kept in dark.

5) We see our erect image in the mirror at home.

6) When we raise our left hand in mirror , it appears that our right hand is raised.

Q. 7 Differentiate between the following. (06)

(Any 2)

1. Kinetic energy and potential energy

2. Light energy and heat energy

3. Real and virtual image

Q. 8 Answer in short. (10)

(Any 5)

1) What is the gravitational potential energy?

2) Why do we get hurt when we come in front of a moving bicycle?

3) Name five different forms of energy.

4) What is reflection of light ? How does it help us ?

5) What happens when the incident ray strikes the reflecting surface normally ?

6) Name the three primary colours.

Q. 9 Explain the following terms.

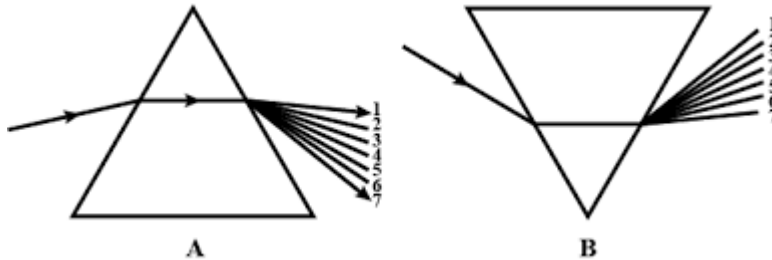
(Any 3)

(09)

1. Energy
2. Work
3. Angle of incidence
4. White light

Q.10 State the correct sequence (1–7) of colours in the spectrum formed by the prisms A and B, shown in the image. And write names of colours.

(02)



ALL THE BEST

