Class: VIII
Annual Examination 2024-2025
Subject: Science
Set – A2

Time allowed: 2.5 hr Max Marks: 60

General Instructions:

The question paper comprises of three sections, A , B and C. You have to attempt all the 3 sections on 3 separate answer sheets.

Section "A" (Physics)

Physics question paper consists of 4 pages

Set "A2"

MM: 20

For question number 1 fill up the blank with correct word (s) (No need to write full statement, write only correct answer with correct serial number) (1)

1 . _____ body cannot be charged easily by friction.

For question number 2 write True or False (write only correct answer with correct serial number, no need to write the words, only "T" and "F" can be written in front of the correct serial number.)

2. Sound cannot travel in vacuum. **(1)**

For question number 3 write the correct option out of 4 choices. (write only correct answer with correct serial number, no need to write the words) (1) × 5 = (5)

3 (i) Our body will blast out itself if

(a) all the pressure from inside of our body vanishes suddenly

(b) atmospheric pressure from outside vanishes suddenly.

(c) no liquids and gases are present inside our body

(d) atmospheric pressure from outside will suddenly become double the usual amount.

3 (ii) The layer of earth below the fragments of plates is

(a) core

(b) mantle

(c) outer core

(d) crust

3 (iii) Choose the CORRECT statement

(a) light is visible when enters our eyes

(b) we cannot see light but we see with the help of light

(c) luminous object gets light from another source

(d) light is reflected only from the shiny side of the mirror

3 (iv)

Gymnasts apply

(a) dry lubricant to reduce the friction
(b) dry lubricant to increase the friction
(c) coarse substance to increase the friction
(d) coarse substance to decrease the friction

3 (v)

In DHOLAK, the main vibrating part is

(a) string

(b) membrane

(c) only air column

(d) stretched ropes

4.

- **(a) Both A and R are true, and R is the correct explanation of A.**
- **(b) Both A and R are true, but R is not the correct explanation of A.**
- **(c) A is true, but R is false.**
- **(d) A is false, but R is true.** **(1)**

Assertion (A): A ball rolling on the ground eventually stops.
Reason (R): The force of friction opposes the motion of the ball to stop it completely.

<u>For question number 5, Either do "5(i)" fully with its all parts. OR do "5(ii)" fully with its all parts. Do not attempt/touch both. Write clear and correct serial number of the one you are attempting</u>

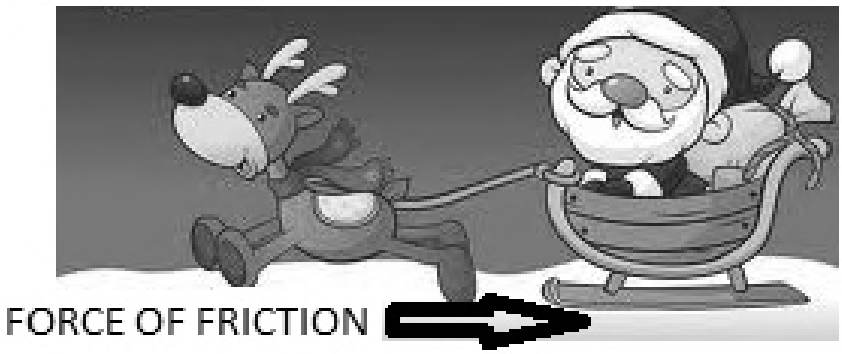
5 (i) **.** What is the audible range of frequency for humans? What do you understand by following statement?
" Frequency of oscillation of a body is 1 Hz" (2)

OR

5 (ii)

A pendulum oscillates 10 times in 2 seconds. Find its time period and frequency. (show all steps / formulae etc) (2)

6. Study the following picture carefully and then answer the questions followed.



(a) Name the type of friction that is present between snow sledge and snow when sledge is in motion. (1)
(b) Name the type of friction that is present between snow sledge's body and cold air. (1)

7. Read the following passage and answer the questions followed.

In the following picture the tallest building of the world "Burj Khalifa" in Dubai, is being shown, hit by severely dangerous lightning strike. Amazingly, there is no damage of any life and property in the building.

7 (a) Name the device which must have saved the building and people. **(1)**

7 (b) Write **any two** features/constructions parts of this device. **(2)**

For question number 8, Either do "8 (i)" fully with its all parts. OR do "8 (ii)" fully with its all parts. Do not attempt/touch both. Write clear and correct serial number of the one you are attempting

8. (i)

(a) Write any one difference between regular and irregular reflection. **(2)**

(b) Write the function of each one of the following in context of Physics of human eye.
(i) Cornea
(ii) Retina
(iii) Optic nerves. **(3)**

OR

8. (ii)

(a) Write any two characteristics of image formed in a plane mirror. **(2)**
(b) Draw a neat well labeled ray diagram to show image formed in a plane mirror. **(3)**