

LORVEN PUBLIC SCHOOL

(Affiliated to CISCE, New Delhi)
Anekal Road, Chandapura, Bangalore - 99

Annual Exam – 2020

Class: VII

PHYSICS

Time: 2 hrs 30 minutes

Total Marks: 80

I. Choose the correct answer

(5X1=5)

1. Heat always flows from
 - (a) Higher temperature to lower temperature
 - (b) Equal temperature
 - (c) Lower temperature to higher temperature
 - (d) None of the above.
2. The most important naturally occurring source of heat is
 - (a) Sun (b) Earth (c) Moon (d) Stars
3. Which one of the following sound frequencies can humans hear?
 - (a) 10 hertz (b) 400 hertz (c) 21000 hertz (d) no frequency
4. To hear a distinct echo, the minimum distance of a reflecting surface should be
 - (a) 17 meters (b) 34 meters (c) 68 meters (d) 340 meters
5. Electric current is measured by a device called
 - (a) Voltmeter (b) Ammeter (c) Electroscope (d) None of these

II. Fill in the blanks

(5X1=5)

6. A hydrometer is used to measure _____
7. The rate of change of velocity is called _____
8. _____ is a process in which a gaseous substance changes into a liquid state.
9. The loudness of sound is decided by the _____ vibration.
10. Like poles _____, whereas unlike poles _____ other.

III. State whether the statement is true or false

(5X1=5)

11. The gravitational pull acting on a body is called its mass.
12. A stretched string is example of kinetic energy.
13. Velocity has magnitude and direction.
14. Sound persists in our ear for 1/20 second.
15. The unit of acceleration is meters/sec².

IV. Answer any 5 of the following questions

(5X1=5)

16. Describe spring balance.
17. What do you mean by translatory motion?
18. How do we see colour?
19. Define acceleration.

20. Name two devices which work on solar energy?

21. Define Echo.

V. Answer any 6 of the following questions

(6X2=12)

22. Name the type of motion

(i) The motion of a swing

(ii) The motion of a falling stone

23. Explain the physical balance

24. Differentiate between real image and virtual image.

25. Give two examples of rotational motion.

26. Repulsion is the sure test of magnetism. Explain.

27. What are conductors? Give two examples.

28. Define convection.

VI. Answer the following questions

(3X5=15)

29. Write three differences between scalar and vector quantity.

30. Define uniform and variable velocity.

31. Draw well labeled diagram of thermos flask?

32. State important difference between noise and a musical sound.

33. Draw a neat diagram of a physical balance?

VII. Answer any 4 of the following questions

(4X4=16)

34. What is a simple pendulum? Draw a neat labeled diagram of simple pendulum.

35. What are the laws of reflection of light

36. Write any four differences between mass and weight.

37. Draw a well labeled diagram of electric bell.

38. How can we solve energy problem?

39. List some uses of magnets and electromagnets.

VIII. Numerical (any 4)

(4X3=12)

40. An object has a volume of 3 cubic meters and a density of 6000 kilograms per cubic meter. What is its mass?

41. Pendulum A makes 15 oscillations in 5 seconds and pendulum B makes 8 oscillations in 4 seconds which has higher frequency? Express the frequency of each pendulum in hertz.

42. Convert 32 degree F into Celsius scale.

43. The angle between incident ray and reflected ray is 70 degrees. What will the incident angle be?

44. A current of 3 amperes flows for 4 minutes in a conductor. Calculate the quantity of charge passed through the conductor during this time.

IX. Answer the following question

(5)

45. Draw well labeled diagram of an Electric bell and describe the working of an electric bell.