

ATOMIC ENERGY CENTRAL SCHOOL NO. 3 RAWATBHATA

Confidence exam

CLASS: VIII
SUBJECT: SCIENCE

Time Allowed: 3 hours

Maximum Marks: 80

Section A

1. School bags have broader strips to [1]
a) Increase pressure b) Decrease mass
c) Decrease pressure d) Increase grips
2. In game of tug-of war, two teams [1]
a) Pull the rope tied with tree b) Pull the rope in opposite direction
c) Pull the rope in same direction d) Push the rope in opposite direction
3. What does air resistance do to falling objects? [1]
a) Increase its mass b) Make them rise
c) Slows down them d) Speeds them up
4. Which of the following health problem is not caused due to noise pollution? [1]
a) Diabetes b) Lack of sleep
c) Anxiety d) Hypertension
5. The electrode connected to negative terminal is called [1]
a) Anode b) Cathode
c) Electrode d) Cations
6. Two objects with like charges will [1]
a) either attract or repel b) repel each other
c) neither attract nor repel d) attract each other
7. Which type of mirror always form image behind the mirror? [1]
a) Plane mirror only b) Plane mirror and concave mirror
c) Plane mirror and convex mirror d) Convex mirror and concave mirror
8. In which type of mirror image is always laterally inverted? [1]
a) Concave mirror b) Biconcave mirror
c) Plane mirror d) Convex mirror
9. Rotation of earth on its own axis causes [1]
a) Summer and winter b) Eclipses.
c) Day and night d) Change in size of moon
10. The pieces of rock which revolve around the Sun, sometimes enter the Earth's atmosphere and start burning due to [1]
a) Colour of the object b) Friction from air
c) Height of object d) Size of the object

Section B

11. Fill in the blanks:
A force applied on an object may change its _____. [1]
12. Fill in the blanks:
Friction due to fluid is also called _____. [1]
13. Fill in the blanks:
Sound cannot travel in _____. [1]
14. Fill in the blanks:
The passage of an electric current through a solution causes _____ effects. [1]
15. Fill in the blanks:
Flood, tsunami can take place due to an _____. [1]

16. Fill in the blanks:
Night birds have _____ cones than rods in their eyes. [1]
17. Fill in the blanks:
Saturn appears most beautiful amongst all planets due to its _____. [1]
18. Fill in the blanks:
The planet which appears reddish in colour is _____. [1]
19. Fill in the blanks:
Water which is suitable for drinking is called _____. [1]
20. Fill in the blanks:
_____ are used in refrigerators and air conditioners. [1]

Section C

21. A rocket has been fired upwards to launch a satellite in its orbit. Name two forces acting on the rocket immediately after leaving the launching pad. [2]
22. Give two examples of situations in which applied force cause a change in the shape of an object. [2]
23. Enlist any four methods of reducing friction. [2]
24. Prove that sound can travel through solids. [2]
25. Paheli had heard that rainwater is as good as distilled water. So she collected some rainwater in a clean glass tumbler and tested it using a tester. To her surprise she found that the compass needle showed deflection. What could be the reasons? [2]
26. What is lightning conductor? How does it protect building from lightning? [2]
27. Difference between 'a star' and 'a shooting star'. [2]
28. How is acid rain caused? [2]

Section D

29. What are non-contact forces? Explain different types of non-contact forces. [3]
30. Give some examples where friction produces heat? [3]
31. What are the factors on which frictional force depends in fluids? [3]
32. a. What is one vibration in a second called as? [3]
b. What is oscillation? A vibrating object produces 156 waves in four second. Calculate the frequency of the vibrating object. [3]
33. What is ultrasound and where it is used? [3]
34. What is reflection of light? State the laws of reflection. [3]
35. Write a short note on Ganga Action Plan. [3]
36. **Define the following:** [3]
a. Global warming
b. Green house effect
c. Air pollution

Section E

37. Three different electrolysis cells A, B and C are connected in separate circuits. Electrolytic and cell A contains sodium chloride solution. When the circuit is completed a bulb in the circuit glows brightly. Electrolytic cell B contains acetic acid solution and in this case the bulb in the circuit glows dimly. The electrolytic cell C contains sugar solution and the bulb not glow. Give reason for each of these observations. [5]
38. Write some safety tips during lightning. [5]
39. Differentiate between regular and diffused reflection. Does irregular reflection mean the failure of the laws of reflection? [5]
40. What makes life sustainable on Earth? [5]