

# ATOMIC ENERGY CENTRAL SCHOOL NO. 3RAWATBHATA

## CLASS 08 – SCIENCE

PT – II (2019-20)

Time Allowed: 1 hour and 30 minutes

Maximum Marks: 40

### Section A

1. Kabaddi players rub their hands with soil for a [1]
  - a) Better grip of their opponents
  - b) Make the opponents weaker
  - c) Make the body more slippery
  - d) Increasing energy of the body
2. Rolling friction and sliding friction are two types of [1]
  - a) Static friction
  - b) Directional friction
  - c) Dynamic or kinetic friction
  - d) Fluid friction
3. Voice of which of the following is likely to have minimum frequency? [1]
  - a) Baby boy
  - b) Baby girl
  - c) A man
  - d) A woman
4. Fill in the blanks: Frequency is measured in \_\_\_\_\_. [1]
5. Fill in the blanks: An \_\_\_\_\_ is a flow of electric charge. [1]
6. Fill in the blanks: [1]

A major tsunami occurred in the Indian ocean on \_\_\_\_\_.

### Section B

7. What is muscular force? Why it is called a contact force? [2]
8. Explain why we use ball bearings between the hub and axle of ceiling fan and bicycle. [2]
9. How does shrillness or pitch is affected by frequency? [2]
10. Name two factors on which the magnitude of the frictional force depends? [2]
11. A tester is used to check the conduction of electricity through two liquids, labelled A and B. It is found that the bulb of the tester glows brightly for liquid A while it glows very dimly for liquid B, you would conclude that [2]
  - (i) liquid A is a better conductor than liquid B.
  - (ii) liquid B is a better conductor than liquid A.
  - (iii) both liquids are equally conducting.
  - (iv) conducting properties of liquid cannot be compared in this manner.
12. What effect does the current produce when it flows through a conducting solution? [2]
13. How the power of an earthquake is estimated? At what strength it becomes destructive? [2]

### Section C

14. Describe some events where friction is harmful to us? [3]
15. Define frequency, amplitude and time period of a vibration. [3]
16. How the magnetic effect of current can be used to detect current? [3]
17. What is a seismograph? How does it work? [3]

### Section D

18. Name the forces actin on a plastic bucket containing water held above the ground level in your hand. Explain why the forces acting on the bucket do not bring a change in the state of motion. [4]
19. Write some safety tips during lightning. [4]