

# Federal Board SSC-I Examination

## Physics Model Question Paper

(Science Group)

For Class 9<sup>th</sup> SSC-I

Annual Examination 2020 & Onwards

### SECTION-A

Time allowed: 20 minutes

Marks: 12

Note: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

**Q.1 Encircle the correct option i.e. A / B / C / D. All parts carry equal marks.**

i. A refrigerator works mainly on the principle of:

- A. Thermodynamics
- B. Electricity
- C. Mechanics
- D. Solid state physics

ii. If a body starts from rest then which of the following is correct?

A.  $v_f = v_i$                       B.  $v_i = -at$

C.  $v_f = at$                         D.  $v_f - v_i = t$

iii. A stone is dropped from a certain height distance covered by it in one second is:

- A. 4.9m                              B. 1m
- C. 10m                                D. 9.8m

iv. The expression of "g" in Atwood machine is:

A.  $g = \frac{(m_1+m_2)}{(m_1-m_2)} \alpha$

B.  $g = \frac{(m_1 m_2)}{(m_2)} \alpha$

C.  $g = \frac{(m_1-m_2)}{(m_1+m_2)} \alpha$

D.  $g = \frac{(2m_1 m_2)}{(m_2)} \alpha$

v. Which surface offers the least amount of friction?

- A. Concrete                        B. Ice
- C. Grass                              D. Water

vi. If a body remains in its new position when disturbed from its previous position, it is said to be in:

- A. Stable equilibrium
- B. Unstable equilibrium
- C. Neutral equilibrium
- D. Dynamic equilibrium

vii. GPS consists of \_\_\_\_\_ earth satellites.

- A. 2                                      B. 12
- C. 20                                    D. 24

viii. Water reaches to the magma that changes water into steam. The steam contains:

- A. Geothermal energy
- B. Chemical energy
- C. Nuclear energy
- D. Electric energy

ix. According to Archimedes, upthrust is equal to:

- A. Weight of displaced liquid
- B. Volume of displaced liquid
- C. Mass of displaced liquid
- D. Density of the displaced liquid

x. A fan in a vacuum cleaner:

- A. Lowers the pressure in the bucket
- B. Increases the pressure in the bucket
- C. Lowers the pressure in the surrounding
- D. Maintains constant air pressure in bucket

xi. Evaporation takes place from the surface of a liquid at:

- A. Low temperature only
- B. High temperature only
- C. Room temperature only
- D. All temperatures

xii. Greenhouse effect is due to presence of \_\_\_\_\_ in earth's atmosphere.

- A. O<sub>2</sub> and N<sub>2</sub>                      B. CO and N<sub>2</sub>
- C. CO<sub>2</sub> and water vapours
- D. O<sub>2</sub> and water vapours

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