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| PHYSICS | 9th 2022 Gujranwala Board | Paper-I |
| Time: 15 Min. | Objective Type | Marks: 12 |
| (Group - II) | | |

Note:

Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

- 1.1** _____ vectors can be added by head to tail rule.
- (A) Any number of (B) 2
(C) 3 (D) 4
- 2** 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 displaced liquid
- 3** _____ has the largest specific heat:
- (A) Copper (B) Ice
(C) Water (D) Mercury
- 4** Rate of flow of heat $\frac{Q}{t} \propto$ _____.
- (A) A^2 (B) $\frac{1}{A^2}$
(C) $\frac{1}{A}$ (D) A
- 5** Co-efficient of friction between tyre and dry road is:
- (A) 0.1 (B) 0.2
(C) 2 (D) 1
- 6** If velocity of a body becomes three times greater, then kinetic energy will be _____ times:
- (A) Three (B) Four
(C) Six (D) Nine
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- 7** 1 kmh^{-1} is equal to:
- (A) $\frac{10}{36} \text{ ms}^{-1}$ (B) $\frac{36}{10} \text{ ms}^{-1}$
(C) 10 ms^{-1} (D) 36 ms^{-1}
- 8** A force " \vec{F} " is acting along x-axis, its y-component will be:
- (A) $2F$ (B) F
(C) 1 (D) Zero
- 9** Earth's gravitational force vanishes at:
- (A) 6400 km (B) Infinity
(C) 42300 km (D) 1000 km
- 10** Force (\vec{F}) is equal to:
- (A) $\frac{P_i - P_f}{t}$ (B) $\frac{P_f - P_i}{t}$
(C) $\frac{P_f + P_i}{t}$ (D) $\frac{P_f \cdot P_i}{t}$
- 11** _____ meters should be the approximately length of a glass tube to construct a water barometer.
- (A) 0.5 m (B) 1m
(C) 2.5m (D) 11m
- 12** An interval of 200 micro seconds (μs) is equivalent to:
- (A) 0.2s (B) 0.02s
(C) $2 \times 10^{-4} \text{ s}$ (D) $2 \times 10^{-6} \text{ s}$