

Self Assessment Model Paper 2 (2025-26)

Science - Grade 9 (Physical Science)

Q. No.	Correct Answer/Rubric
1	D
2	A
3	D
4	D
5	B
6	A
7	D
8	B
9	C
10	B
11	D
12	A
13	C
14	B
15	C
16	<p>1) When the object moves with constant velocity, the net force = 0. Therefore, Frictional force = - Applied force</p> <p>2) Therefore, Frictional force = -100N (Award 1 mark for each point)</p>
17	<p>1) Brass is an Alloy madeup of Copper (80%) and Zinc (20%).</p> <p>2) Brass is used to make Cooking Utensils, Electric terminals in Switches e.t.c.</p> <p>(Award 1 mark for each relavent Point)</p>
18	<p>1) Newton's 3rd law : Every action will have an equal reaction in opposite direction.2Marks.</p> <p>2) During the journey of rocket, Action : Releasing of gases by Rocket Reaction: Force act pn rocket by atmosphere to unable rocket to move. ----1mark,</p> <p>3) Action : 10 N of Force applied b y man on wall, Reaction: 10 N of Force applied by wall on man in opposite direction-----1Mark.</p>
19	<p>1) Milk- D.P : Liquid, D.M: Liquid</p> <p>2) Fog- D.P : Liquid, D.M: gas</p> <p>3) Coloured Gem- D.P : Solid, D.M: Solid,</p> <p>4) Milk of Magnesia- D.P : Solid, D.M: Liquid</p>
20 A	<p>1) For explaining terms like m,V,u during derivation -----2 marks</p> <p>2) For derivation till $F=ma$-----2marks</p> <p>3) From $F=ma$, F is directly proportional to a, i.e $F \propto a$, $F_2/F_1 = a_2/a_1$ -----2marks</p> <p>4) $F_2 = a_2 * F_1 / a_1 = 3 * 15 / 1 = 45 \text{ N}$ -----2marks</p>
20 B	<p>1) Concentration: The amount of solute (Mass or Volume) present in the given amount of Solution (mass or volume) is called Concentration of the solution.---2marks</p> <p>2) Wt of Solute (w) = 4 gram, Wt. of Solvent(W) =36 gram----2 marks</p> <p>3) Weight percentage = $(w / w+W) * 100$ -----2 marks,</p> <p>4) Concentration by weight = $(4 / 4+36)*100 = 10\%$ ----- 2marks</p>