

NAVODAYA VIDYALAYA SAMITI

Marking Scheme

Class-VIII Science

Section-A

(Competency Based Questions)

CBQ No.	Answer key	Marks
1	1 (d)Friction does not act on a ball moving through air	1
	2 (d)irrespective of whether the objects are solid, liquid or gaseous	1
	3 (c) decrease	1
	4 Sliding friction	1
	5 (c) polished marble surface	1
2	1 (c) Sucrose	1
	2 (c) carbon dioxide	1
	3 YES	1
	4 NO	1
	5 YES	1
3	c) Tuning fork	1
	d) Amplitude	1
	(a) its amplitude	1
	frequency, wavelength and amplitude.	1
	(c) above 20,000 Hz	1
4	(b)It has a balance of all plant nutrients	1
	(c)Afforestation	1
	a) Deforestation	1
	(c) Composting using worms	1
	a process in which nitrogen gas (N₂) from the atmosphere is incorporated into the tissue of certain plants.	1
5	Coal	1
	(b) coal	1
	Global warming	1
	because they are exhaustible natural resources.	1
	(a)Solar, Wind, Tidal	1
6	(d) Copper	1
	(b) Sodium	1
	It does not react with oxygen or moisture in the oil	1
	(a) Copper	1
	b) calcium	1
7	c) Barometer	1
	c) 100 kilopascals	1
	Decreases	1
	Because our blood contains dissolved oxygen at a pressure that is slightly more than the atmospheric pressure. This counterbalances the atmospheric pressure.	1
	Because the atmospheric pressure provides enough force to push the piece of paper upward.	1
8	c) plastic	1
	b) plastic bags	1
	d) All of the above	1
	c) Up to 1000 years	1
	a) Causing less garbage	1

SECTION-B
(Reasoning Type Questions)

Question No.	Answer key	Marks
9	Paddy plants requires lot of water for their proper growth and development, thus paddy can be grown in rainy season only	1
10	Oral polio drops will get excreted due to frequent motions . Hence children with diarrhea are not given with polio drops.	1
11	Plastic is a non-reactive material	1
12	React vigorously with oxygen and water	1
13	The amount of resources available for use is limited and is being exhausted by human activities	1
14	Needle has small area of contact compared to the finger	1
15	This helps to have more grip	1
16	Light travel faster than sound	

SECTION-C
(Short Answer Type Questions)

Question No.	Answer key	Marks
17	The undesirable plants that grow along with the crops are called weeds. Using weedicides, tilling, using khurpi.	1+1
18	Animal husbandary. Animals are provided with proper food, shelter and care	1+1
19	Any two points	1+1
20	It does not made of iron metal but has its salts	2
21	Any two example	1+1
22	Diagram+vibrate to produce sound	1+1
23	Definition+precautions	1+1
24	Any two points	1+1
25	Reduse rainfall, desertification, soil erosion Any two points	1+1
26	When the iron is heated it gets softened. A blacksmith hammers on the hot iron, he applies force. This applied force changes the shape of iron.	2
27	Any two points	1+1
28	(a) Lightning fixes nitrogen. (b) Nitrogen-fixing bacteria and blue-green algae fix atmospheric nitrogen. (c) Nitrogenous waste from excretion and death. (d) Bacteria turn compounds of nitrogen into gaseous nitrogen.	1/2x4=2

SECTION-D
(Long Answer Type Questions)

Question No.	Answer key	Marks
29	<p>a) We make a muscular force to extract the juice of the lemon by squeezing it. As a result, the shape of the lemon gets changed.</p> <p>b) To take out paste from the toothpaste tube we use our muscular force. This muscular force acting on the toothpaste tube leads to a change of its shape.</p> <p>c) Here, the suspended load exerts a force on the spring and pushes the spring downwards. As a result, the spring gets stretched. Hence, its shape gets changed.</p> <p>d) The feet of the athlete exert the muscular force on the ground, which pushes the ground. This allows him to jump over the bar. As a result, his state of motion gets changed.</p> <p style="text-align: center;">OR</p> <p>Contact forces and noncontact forces and its types</p>	<p>1x4=4 Or 2+2=4</p>
30	<p>Any four physical properties of metals.</p> <p style="text-align: center;">OR</p> <p>(i) No reaction occurs when dilute sulphuric acid is poured on a copper plate. However, when concentrated sulphuric acid is poured on a copper plate, hydrogen gas evolves along with the formation of blue coloured copper sulphate crystals. The chemical reaction for the reaction between concentrated sulfuric acid and copper is: $\text{Cu} + \text{H}_2\text{SO}_4 (\text{conc.}) \rightarrow \text{CuSO}_4 + \text{H}_2$</p> <p>ii) Iron being more reactive displaces copper from copper sulphate. In this reaction, the blue colour of copper sulphate fades and there is a deposition of copper on the iron nail.</p> $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$	<p>1x4=4 Or 2+2=4</p>