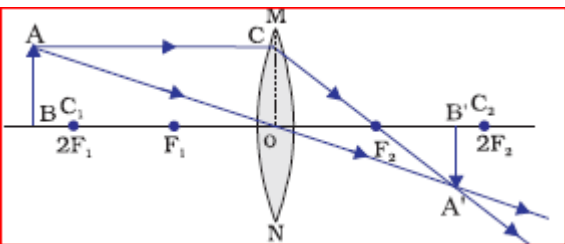


ANNEXURE – C

DAV PUBLIC SCHOOLS, ODISHA ZONE
PA- III, 2023-24
STD-VIII
SCIENCE & TECHNOLOGY
(Full Mark-40)
MARKING SCHEME

Q.N O.	Value Points	Marks allotted to each point	Text book pages.
1	Sodium	1	19 exemplar
2	(b) Copper, tin and zinc.	1	50
3	a.(Angle of incidence is equal to angle of emergence.) $i=e$	1	174
4	(c) Violet and Red	1	176
5	a) Loading	1	Pg-362
6	a. Both Assertion and Reason are correct and Reason is the correct explanation for Assertion	1	361
7	b. Both A and R are true but R is not the correct explanation of A.	1	7
8	a. PPLO- Pleuro pneumonia like organisms, size of diameter-0.1 micron. b. cytoplasm c. diagram Nerve cell/neuron It transmits nerve impulses to organs located in different parts of the body. d. Diagram in Pg 8 of text book, The living world. e. Leucoplasts provide space for starch, proteins and oils.	1x4	3 6 3 8 11
9	a. focus of the earthquake b. By 10^3 or 1000 times c. Seismometer d. Quake safe building, fire fighting equipment,, safer place, emergency communication plan, disaster management kit (any two) e. The point or place on the surface of the earth above focus where maximum tremor intensity is found.	1x4	332, 336, 331, 337, 335

10	a. $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$ b. $4\text{Na} + \text{O}_2 \rightarrow 2\text{Na}_2\text{O}$	1+1	Pg-46 , 43
11	a. 1.Harder, stronger 2.resistant to corrosion b. No, pure gold is very soft.	(0.5x2) + (0.5x2)	49, 48
12	The water which is safe for drinking is called potable water. 1.colourless and free from odour, 2. Free from suspended impurities 3.tasteless 4.free from disease causing microorganisms 5. Free from harmful chemicals.(any two)	1+ 0.5x2	360
13	i. Burns with bright white flame andwhite powder ash is formed ii. $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$ iii. Basic solution turns red litmus blue	(0.5x2)+ 1 +1	43
14	(a)Convex lens (b)  (c) Virtual , erect and magnified	$\frac{1}{2}$ $1+\frac{1}{2}$ $\frac{1}{2}$ $+\frac{1}{2}$	181
15	(a) Plant cells have an additional layer around cell membrane known as cell wall because plants provide mechanical support and protection to the cell. (b) We do not call cell organelles the structural and functional units of living organisms because they only perform their functions if they are present inside the living cell. (c) Animal cells lack cell wall so they show large variations in shape.	3= (1+1+1)	6 and 8
16	a) Because Mitochondria are responsible for responsible for cellular respiration and for generation of energy for different activities of life. b) Rough Endoplasmic Reticulum – Synthesis	1+1+3	7 and 9

	<p>of proteins. Smooth Endoplasmic Reticulum – Synthesis of fats.</p> <p>(c)</p> <table border="1"> <thead> <tr> <th>Animal cell</th> <th>Plant cell</th> </tr> </thead> <tbody> <tr> <td>Shape is not fixed</td> <td>Fixed shape</td> </tr> <tr> <td>Cell wall is absent</td> <td>Cell wall is present</td> </tr> <tr> <td>Plastids are absent</td> <td>Plastids are present</td> </tr> <tr> <td>Vacuoles are either absent or if present then small in size</td> <td>One large vacuole is present</td> </tr> <tr> <td>Nucleus is present in the centre of the cell</td> <td>Nucleus is present towards the periphery of the cell</td> </tr> </tbody> </table> <p>(any 3 pts)</p>	Animal cell	Plant cell	Shape is not fixed	Fixed shape	Cell wall is absent	Cell wall is present	Plastids are absent	Plastids are present	Vacuoles are either absent or if present then small in size	One large vacuole is present	Nucleus is present in the centre of the cell	Nucleus is present towards the periphery of the cell		
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Nucleus is present in the centre of the cell	Nucleus is present towards the periphery of the cell														
17	<p>a. Refraction of light</p> <p>b. A coin at the bottom of the cup which was not visible becomes visible after some water is added to it. OR 2. Pencil appears bent when partially dipped in a beaker of water, OR 3. Appearance of face of the person behind the glass of water. (Any other correct example)</p> <p>c. More is the optical density less is the speed of light or inverse proportionality relation.</p> <p>d. Ray diagram of page 173 of The living world, class VIII.</p>	<p>1+</p> <p>1+</p> <p>1+</p> <p>2</p>	<p>172,</p> <p>170,</p> <p>173</p>												
