

Rubrics : SSC 1st ANNUAL EXAMINATION 2022

Subject: PHYSICS-I (HA)

Q No/ Part No	Rubric Name	Rubric Type 1 (Marks)	Rubric Type 2 (Marks)	Rubric Type 3 (Marks)	Rubric Type 4 (Marks)	Rubric Type 5 (Marks)
2 (i)	Base quantities with units	Any three correct quantities with units (1.5)	Any two correct quantities with units (1)	Any one correct quantity with unit (0.5)	Wrong (0)	
	Derived quantities with units	Any three correct quantities with units (1.5)	Any two correct quantities with units (1)	Any one correct quantity with unit (0.5)	Wrong (0)	
2 (ii)	Calculation of Seconds	Correct Calculation with Units (02)	Partially Correct Method but incorrect answer (01)	Wrong (0)		
	Standard Form	Correct Standard Form (01)	Standard Form without Unit (0.5)	Wrong (0)		

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2 (iii)	Object moving with constant speed	Correct Graph (1.5)	Partially Correct i.e. graph drawn without labeling axes (01)	Wrongly drawn graph but with correct labeled axes (0.5)	Wrong (0)	
	Object is at rest	Correct Graph 1.5	Partially Correct i.e. graph drawn without labeling axes (01)	Wrongly drawn graph but with correct labeled axes (0.5)	Wrong (0)	
2 (iv)	Data	Extraction of Correct Data with Units (01)	Incomplete Data (0.5)	Wrong (0)		
	Calculation	Correct Calculation (02)	Partially correct (01)	Wrong (0)		
2 (v)	Differences between Mass & Weight	Any three correct differences (3)	Any two correct differences (2)	Any one correct difference (1)	Any relevant correct point (0.5)	Wrong (0)

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4 (v)						
2 (vi)	Data	Extraction of Correct Data with Units (01)	Incomplete Data (0.5)	Wrong (0)		
	Calculation	Correct Calculation (02)	Partially Correct (01)	Wrong (0)		
2 (vii)	Explanation	Correct Explanation of long moment arm, requirement of small force and torque	Partially correct i.e. any two correct aspects (2)	Partially correct i.e. any one correct aspect (1)	Wrong (0)	

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2 (viii)	Data	Extraction of Correct Data with Units (01)	Incomplete Data (0.5)	Wrong (0)		
	Calculation	Correct Calculation (02)	Partially Correct Calculation (01)	Only Diagram (0.5)	Wrong (0)	
2(ix)	Data	Extraction of Correct Data with Units (01)	Incomplete Data (0.5)	Wrong (0)		
	Calculation	Correct Calculation (02)	Partially Correct Calculation (01)	Wrong (0)		
2 (x)	Definition	Correct (1)	Partially Correct (0.5)	Wrong (0)		
	Use as a energy source	Correct (1)	Partially Correct (0.5)	Wrong (0)		
	Harmful effect	Correct (1)	Partially Correct (0.5)	Wrong (0)		

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2.(xi)	Explanation	Correct explanation i.e. explaining convectional process, upwards movement of air and helping the birds (3)	Partially correct i.e. any two correct aspects explained (2)	Any one correct aspect explained (1)	Any key words i.e. convection process or convection current (0.5)	Wrong (0)
2 (xii)	Calculation	Correct calculation (3)	Partially correct calculation (2)	Correct answer with unit without calculation (1)	Wrong (0)	
2. (xiii)	Reason (a)	Correct Explanation of rate of evaporation directly depends on temperature (1.5)	Partially correct i.e. only mentioning the relationship (1)	Wrong (0)		
	Reason (b)	Correct Explanation of rate of evaporation directly depends on surface area (1.5)	Partially correct i.e. only mentioning the relationship (1)	Wrong (0)		

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2 (xiv)	Explanation	Correct explanation i.e. explaining with principle of floatation for sinking and floating of submarine (3)	Partially correct i.e. explaining any one aspect with principle of floatation (2)	Mentioning only the principle of floatation (1)	Wrong (0)
2.(xv)	Definition	Correct (2)	Partially correct (1)	Wrong (0)	
	S . I Unit	Correct (1)	Wrong (0)		
	Graph	Correct graph i.e. initial description and labeling (2)	Partially correct i.e. correct graph without description (1)	Graph without description and labeling (0.5)	Wrong (0)

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3.(a)	Derivation	Correct i.e. complete derivation (4)	Partially correct i.e. major steps mentioned (3)	Some steps mentioned (2)	Mentioning distance covered by the body equals area under the graph (1)	Wrong (0)
3.(b)	Data	Extraction of Correct Data with Units (01)	Incomplete Data (0.5)	Wrong (0)		
	Calculation of acceleration	Correct Calculation with Unit (1.5)	Partially Correct Calculation (01)	Wrong (0)		
	Calculation of tension	Correct Calculation with Unit (1.5)	Partially Correct Calculation (1)	Wrong (0)		
4. (a)	Definition	Correct (1)	Partially correct (0.5)	Wrong (0)		
	Mathematical expression	Correct (1)	Wrong (0)			
	Unit	Correct (1)	Wrong (0)			

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	Maximum work	Correct (1.5)	Partially correct (1)	Wrong (0)		
	Zero Work	Correct (1.5)	Partially correct (1)	Wrong (0)		
4. (b)	Data	Extraction of Correct Data with Units (01)	Incomplete Data (0.5)	Wrong (0)		
	Calculation of orbital speed	Correct Calculation with Unit (3)	Partially Correct Calculation with Unit (2)	Partially Correct Calculation without Unit (1)	Wrong (0)	
5 (a)	Statement	Correct (1)	Partially correct (0.5)	Wrong (0)		
	Working of hydraulic press	Correct explanation and mathematical derivation (3)	Partially correct i.e. explaining any one aspect (2)	Any key words (1)	Wrong (0)	
	Working of braking system	Correct explanation (2)	Partially correct (1)	Any key word (0.5)	Wrong (0)	

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5. (b)	Data	Extraction of Correct Data with Units (01)	Incomplete Data (0.5)	Wrong (0)		
	Calculation of Heat required	Correct Calculation with Unit (3)	Partially Correct Calculation with Unit (2)	Partially Correct Calculation without Unit (1)	Wrong (0)	

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