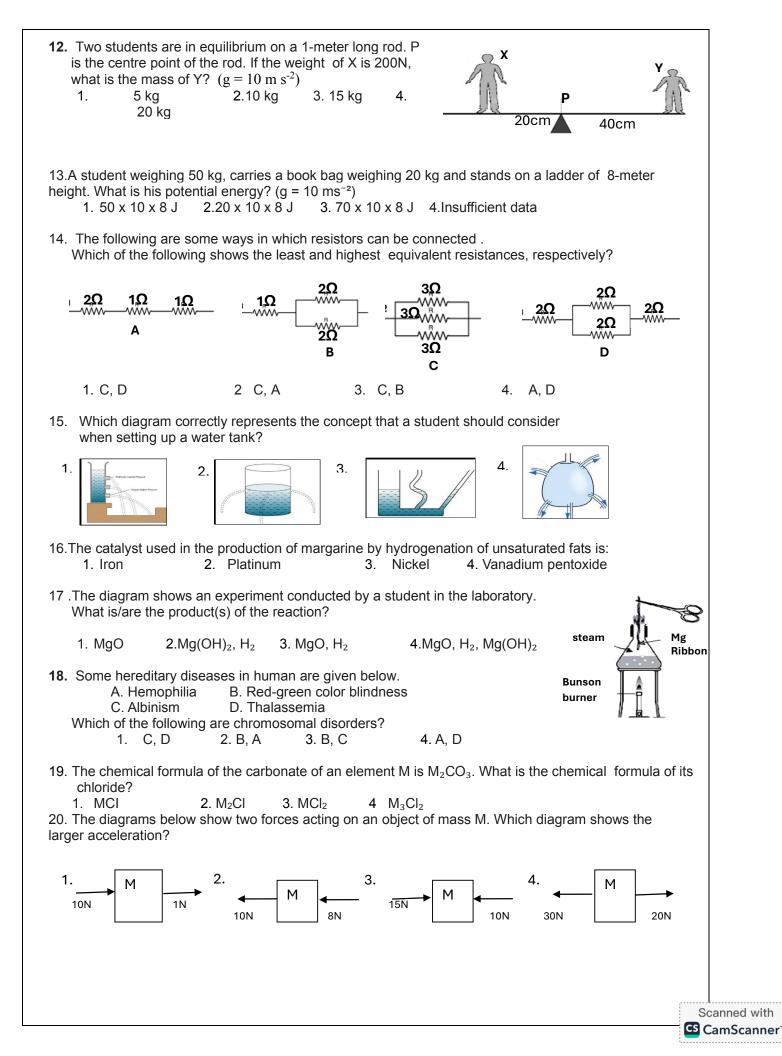


Provincial Department of Education Northern Province



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Practice Exam – 1 - 2024						
Grade:- 11	Scienc	Science 34 - T		Time :-2 Hours		
Index no:	34 - T					
Choose the most approp	riate answer and u	Part I underline it.				
 Which biological monopole 1.Carbohydrate, li 3.Protein, nucleic 	pid 2	elements carbor .Carbohydrate, p .Carbohydrate, p	protein	id oxygen only?		
2. Which of the followin 1.kg m s ⁻²	ng Correctly indicate 2.kg m s ⁻¹	es the unit of mo 3.kg m² s⁻'		g m ^{−1} s ^{−2}		
	nat is the distance tr 2.		eetle and its dis 4	dius of 14 cm and returns to splacement?		
4. Which type of organ 1.nucleus 2.mi	elle is observed in p tochonria	olaces where hig 3.Chloroplast		uction is required? olgi apparatus		
5. The number of pro- 1.17, 18	ons and neutrons ir 2. 17, 17	n the ion ³⁵ ₁₇ Cl ⁻ 3. 18, 17	are respective 4.	ely, 18, 18		
 Which phylum is m 1. Annelida 	ost closely related to 2. Arthropoda	o the phylum cho 3 .Mollusc		Echinodermata		
 The number of day the same ovary is, 1.28 	s required for the re 2.31	elease of an ovur 3.56	n from the righ 4.30	t ovary and then again from		
		t microscope and	re obligate con I an electron m			
 molar mass of NaC 1.40g mol⁻¹ 	0H is, (Na - 23, O - 2. 40 g	16, H - 1) 3. 40 mol	4. 40			
10. The number of electric respectively are: 1. 10, 6	etrons surrounding to 2. 8,10	he central atom i 3. 10,8		nds AICI $_3$ and PCI $_5$		
11. The correct scientin 1.Gallus Lafayetti				Gallus Lafayetti		

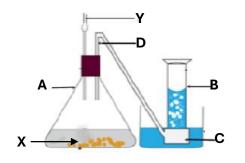


2. Experimental Setup organised to demonstrate the effect of Amylase enzyme on starch is given below.

A) A well-organized experimental setup is given to demonstrate the effect of amylase enzyme on starch in the process of digestion.

in the process of digestion.	
Starch + amylase Mixture	The mixture was added at 10-minute intervals
1. What is the product formed by the act	ion of amylase enzyme on starch in a water medium?
	odine solution is added to the mixture after 15
	nixture after 35 minutes due to the action of amylase
	(1Mark)
4. What strategy was used in this experir	ment to increase the rate of action of amylase enzyme?
5. Which specific type of protein is prese	ent among the substances provided in this experiment?
	(1 Mark)
B). A group of students visited Peradeniya certain plants. These observations are pre-	a Botanical Garden and observed the characteristics of esented in the table.
1. In which domain and kingdom do t	hese plants belong?
Domain	Kingdom (1 Mark)
2. Identify the plants that match the	given characteristics.
Pinus palmyra, Marchantia , blue	lotus
Plants with open seeds	rous flowers
3. In one of the plants there, lichens present in these lichens?	are present in the bark. What are the group of organisms
	(1 Mark) (15 Marks)

(6) The given experiment was done by Grade 10 Students to prepare Carbon Dioxide Gas



- 1. Name the chemicals X and Y which is used in this experiment? (1Mark)
- 2. Name the apparatus labelled A, B, C, and D. (2 Marks)
- How is carbon dioxide gas collected in this experiment? (1Mark)
- **4.** How would you recover the error in this gas preparation setup? (1 Mark)
- **5.** (a) Write the balanced chemical equation for the reaction taking place here using the chemicals used

in X and Y (1 Mark)

(b) What type of reaction is this? (1 Mark)

(B)Diagram of a Setup for Iron Extraction shown in here.

- 1. What is the name of this apparatus? (1Mark)
- 2. Name the two substances that enter the part labelled A. (1 Mark)
- **3.** Write the balanced equation for the formation of CO_2 in B. (1 Mark)
- 4. Through which part (C or D) does the main product exit. (1Mark)

(C) .A 100 g marble X starts from rest and moves with uniform acceleration for 10 seconds ,reaching a velocity of 20 ms-1.It continues to move at this velocity for 30 s .Then it collides with another marble Y of mass 50 g which is in rest and comes to rest in 20 seconds. The 50 g marble Y moves with the velocity it acquired.

(Consider the surface is smooth and there is no energy lost during the colloison. Gravitational acceleration is 10 m s⁻¹)

- 1. What is the mass of marble X? (2 Mark)
- 2. Draw the velocity-time graph for the motion of marble X? (3 Mark)
- 3. What is the acceleration of marble X during its initial motion? (2 Mark)
- 4. What is the total distance travelled by marble X? (2 Mark)

