

(i)	Name the gland X which do secretion to A?	(1 mark)	
(ii)	State the special organ which prevents entering food blous to trachea at B? (1 mark)		
(iii)	How the food blous passes through C?	(1 mark)	
(iv)	D is the place which store food temporary and doing digestion. Name given by y?	the sectretion (1 mark)	
(v)	Emulsification is done by the sectretion of Z, Which added to E. Name the produces Z?	e gland which (1 mark)	
(vi)	State two structural adaptations of F for absorption?	(2 marks)	
(vii)	Name a component absorb at G?	(1 mark)	

02. The diagram shows the structure of the human brain.



(i)	Nam	e X, Y and Z?		(3 marks)
(ii)	Wha	t is the function	n carried out by Y?	(1 mark)
(iii)	Wha	t is the structur	al unit in the nervous system?	(1 mark)
(iv)	Defii	nes the words g	given below.	
	a)	Stimuli		(1 mark)
	b)	effector		(1 mark)
(v)	Men	tion a feature o	f hormones which carried out chemical co- ordinat	ion. (1 mark)

B) A set up arranged by a student to study a factor essential for process of photosynthesis is shown in the diagram. This set up was kept in the dark for 48 hours.



	(iv)	Write a factor that affects the solubility?	(1 mark)
B)	NaCl	is product produced by the reaction of strong acid strong base B.	
	(i)	State the chemical formular of A and B.	(2 marks
	(ii)	Which is the other product produced in the reaction.	(1 mark)
C)	The ta	able below shows the placement of some elements of the periodic tab	le. They are r
,	standa	ard symbols. Answer the questions given below based on the symbols	iven in the tab
	C	P Q R	
	3		
	(i)	Name the element with 2, 8, 8, 2 electronic configuration?	(1 mark)
	(1)	Name the element with 2, 8, 8, 2 electronic configuration?	
	(ii)	Which two elements can be form a more polar compound?	(1 mark)
	<i></i>		
	(111)	Write down the formulae of compound formed between S and R?	(1 mark)
	(iv)	State the type of bond form between P and R?	(1 mark)
	(v)	Write down the symbol of monoatomic gas?	(1 mark)
	(vi)	Draw the Lewis structure of the compound formed between element Q	and Oxygen
			(2 marks
	(vii)	Write down the electronic configuration of S^+ ion?	(2 marks (1 mark)



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- Answer only three questions No. 5, 6, 7, 8 and 9.
- 05. A) Figure presents a sketchy line diagram which shows the respiratory system of human.



- (i) Name the parts labelled A to F. (3 marks)
- (ii) Write the importance of catilageneous rings in A?
- (iii) Write down two adaptations can be seen in the structure D for efficient gas exchange?

(1 mark)

- (iv)Write two changes occurs in inhale air inside the nasal cavity?(2 marks)(2 marks)
- (v) Write the muscle that support for changing the volume of thorasic cavity other than E? (1 mark)
- B) Diagram of female reproductive system is given below.



(1)	Name A,B,C,D.	(2 marks)	
(ii)	Name the place where fertilization of ova occurs.	(1 mark)	
(iii)	Write a major change that can be occur in female reproductive system in low		
	concentration of oestrogen and progesterone level in blood?	(1 mark)	
(iv)	What are the 2 places where the series of events in the menstrual cycle take place?		
		(2 marks)	
(v)	What is the structure that exchange substance between blood ve	ssels of pregnant	
	mother and blood vessels in developing embrgo?	(1 mark)	
(vi) What is the type of cell division occur when transferring chromoso		osomes from parents	
	to child?		
(vii)	Where FSH is secrete in female reproductive system.		
(viii)	Write 2 main characteristics of hormones.		



07. A) Following diagrams shows unscrewing and tightening a nail with a screw driver using couple of forces.





(2 marks)

- (i) Write an another application of couple of forces without this instances? (2 marks)
- (ii) Write 2 features of couple of forces?
- (iii) Write an expression to finds the moment of couple of forces? (2 marks)

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- (iv) It is easy to unscrewing or tightening a nail when increase the thickness of handle of the screw driver. Explain in brief? (2 marks)
- A smoothern, light rod is balanced from the center. When weight W is suspended at (v) Q, what is the weight should be suspended from the point C to balance the rod ? (W = 20N)(2 marks)



What is the force F should be apply on the object to the direction P to give 4ms⁻² (vi) acceleration? (mass = 2kg) (2 marks) ▶ P



- Name the parts of A,B,C in a domestic electric circuit? (3 marks)
- b) Which part is relative with amount of units that consume? (3 marks)
- c) Name L and N wires? write there colours seperrately? (2 marks)

08. A) Growth is a living characteristics of organism. Growth can be occur in two ways. They are increase in number of cells and increase the size of the cell.

Write two types of cell division? (i)

(i)

Write a difference of above two types of cell division. (1 mark) (ii)

(2 marks)

- Write an example of each above cell division can be occurs? (2 marks) (iii)
- B) From the living features belongs to organisms some are transmitted from generation to generation. They are called inherited features.
 - Mention a common inherited characteristics in human population. (i) (1 mark)
 - (ii) Draw a punnet square to show the genotype of f_1 generation when purely breeding of tall plants (TT) and purely bred short plants (tt) is crossed.
- C) Heat is type of Energy. There are 3 types of transmitting heat from on place to another.

- Write 3 types of heat transferring? (3 marks)
- (ii) What is the type of heat transferring through metal rod? (1 mark)



