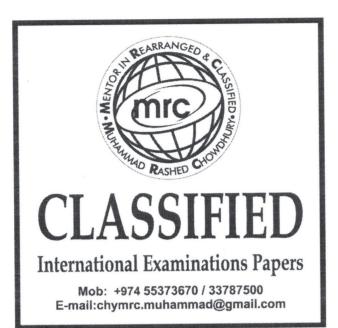
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BIOLOGY-0610/31, 32, 33 TOPIC-ANIMAL NUTRITION (TEETH)

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1	(a)	Teet	th are involved in mechanical digestion.)
gr n		Wha	at is meant by the term mechanical digestion?	
		,,,,,,		
				[2]
	(b)	Fig.	7.1 shows a section through a molar tooth.	
			enamel	
			T Q R	
		(i)	On Fig. 7.1, label parts Q and R	[2]
		(ii)	State two reasons why this tooth carinot be a canine tooth. 1 Mab: +974 55373678 / 55258711 E-mail:rashed.saba@gmail.com	
				[2]
		(iii)	Gum disease causes the gums to shrink from position ${\bf T}$ to position ${\bf S}$, as shown Fig. 7.1.	
			Suggest why the tooth is more likely to decay when the gums are at position S.	
				. [2]
		(iv)	State two ways of maintaining healthy teeth.	
			1	,,,,,

			2	*****
				[2]

2 (a) (i) Sometimes teeth develop dental decay.

Describe how dental decay develops.



(ii) Table 2.1 states three methods of caring for the teeth to prevent dental decay.Complete Table 2.1 by describing why each method is effective.

Table 2.1

method of caring for the teeth		description of why the method is effective	
brushing rinsing the mouth after eating			
not eating sweet foods between meals		gancian con en como con contra con en contra con contra co	
		our types of teeth. Inctions of each of the following when food is being eaten. Mob: +974 55373670 / 55258711 Empitreshed saha@gmeit.com	[3]
(canines		

		[3]
(ii)	Suggest how the tongue helps in the process of chewing.	
		[1]

premolars and molars

(c)	Describe two reasons why solid food is chewed before it is swallowed.	
	1	
		•••
	2	
		2

[Total: 13]



	9	
3 (b)	Enzymes are involved in chemical digestion. $\nabla - V - (3)$	
	Describe the function of the enzyme lipase.	
	ro	1
	[3]	
3 (c)	The teeth are involved in physical digestion.	
	Fig. 3.2 shows a section through a tooth.	
	Fig. 3.2	
	(i) Name a mineral that is required for the development of healthy teeth.	
	[1]
	(ii) Name the parts labelled R , S and T as shown on Fig. 3.2.	

[3]

For Examiner's Use

(iii)	Describe how dental decay is caused.	

		• • • •
		• • • •

		[3]

For Examiner's Use

[Total: 15]



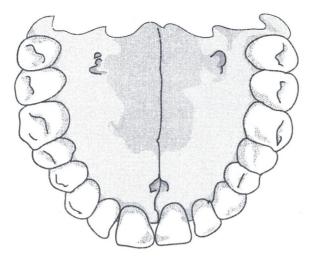


Fig. 9.1

(i)	On Fig. 9.1 label with a letter X one tooth that is adapted for cutting food.	
	State the name of the type of tooth adapted for cutting.	
	GEARRANGED.	,
	The second secon	[2]
(ii)	On Fig. 9.1 label with a letter Y one tooth adapted for chewing food.	
, ,		
	State the name of the type of tooth adapted for chewing.	
	RASHED CO	* * * * * *
	Mob: +974 55373670 / 55258711 E-mail:rashed.saba@gmail.com	[2]

(c) Fig. 9.2 shows a section through a human tooth.

Two of the layers of the tooth are labelled ${\bf A}$ and ${\bf B}.$

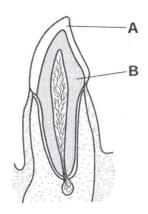


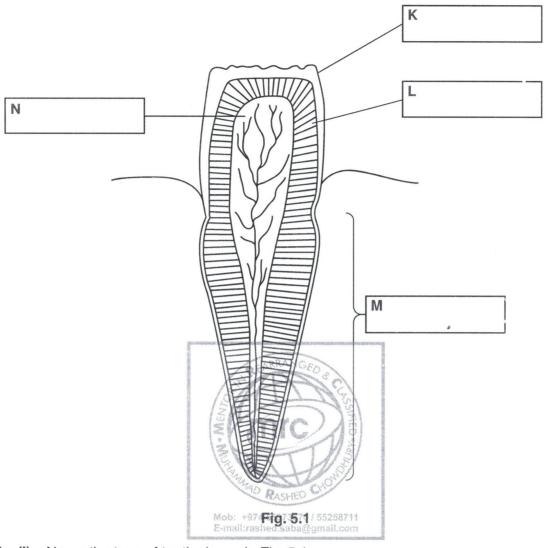
Fig. 9.2

Eating too much sugar can be the beginning of a process that ends in dental decay.

Explain how sugar is involved in decay **and** how decay affects parts **A** and **B**.



5 Fig. 5.1 shows the internal structure of a tooth.



(a) (i) Name the type of tooth shown in Fig. 5.1.

(ii) Name the parts of the tooth labelled \mathbf{K} , \mathbf{L} , \mathbf{M} and \mathbf{N} .

Write your answers in the boxes on Fig. 5.1.

[4]

(b)	Describe how dental (tooth) decay is caused.
	[3]



[Total: 8]

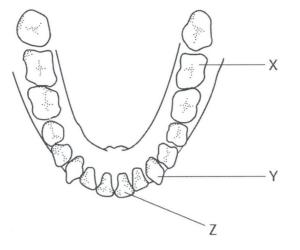


Fig. 6.1

(a)	(i)	Name the teeth labelle	d X, Y and Z.	
		X	ALO NERANGO	
		Υ	[3] A 1/2 (5)	
		z	E TOTAL SERVICE	[3]
	(ii)	Describe the functions	of teeth X and Z.	
			Mob: +974 55373670 / 55258711 E-mail:rashed.saba@gmail.com	
		Z		
				[2]
(b)	Nar tee		ne vitamin that are essential f	or the healthy development of
	mir	neral		
	vita	amin		[2]

(c) Fig. 6.2 shows a section through a tooth.

For Examiner's Use

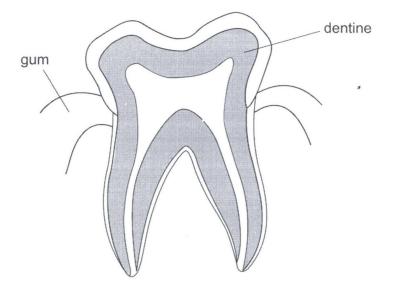


Fig. 6.2

(i)	 Tooth decay is caused by ba 	cteria getting into the	dentine.	Explain how bacte	eria
	can enter the dentine.				
	18				
	T S	mic/	***************************************	,	****
	\fi	er _{es}			****
		+974 55373670 / 55258711			[3]
		iitrashedisaba@gineiit.com		,	
(ii)	 List three actions you could tal 	ke to reduce the risk of	tooth de	cay.	
	1				
				***************************************	••••
	:	*******************************			****
	2				
	Z				••••
	2				
	3				
					[3]
		***********************************		######################################	-1
				[Total: 1	13]

7 Fig. 7.1 shows three different types of teeth from a human.



В

3



C

Fig. 7.1

(a)	(i)	Name the types of teet	h labelled A and B .		
		Α			***
		В		[[2]
	(ii)	State where in the jaw	tooth type C is found.		
				[[1]
(b)	Exp	olain how regular brushi	ng helps to prevent tooth deca		
			RASHED CHOS		•••
			Meb: +874.55273670 J.55258744 E-mail:rashed.saba@gmail.com		[3]
(c)	Exp	olain the roles of chewin	g and of enzymes in the proce		1

	•••••			,	[4]

[Total: 10]