9.1	Biology Paper 1 (231/1)				
1.	(i)	Nephritis; (ii) kidney stones;	(2 marks)		
2.	(a)	$m_2^2 < \tau p m_1^3 m_2^3$	(1 mark)		
	(b)	Dental carries; Periodontal/gingivitis/pyorhoea;	(2 marks)		
3.	(i) (ii) (iii) (iv)	(ii) Organize scientific knowledge in an orderly system;(iii) Monitor emergence, presence and disappearance of organisms in and from the earth			
			(3 marks)		
4.	(a) (b)	Sucking small insects/animals; A trap into which small animals fall and get trapped;	(1 mark) (1 mark)		
5.	(a)	Grass —> Grasshopper —	(1 mark)		
	(b)	(i) Chicken;(ii) Grass;	(2 marks)		
6.	(a)	This is the study of the inter-relationship between organisms and their environment;			
	(b)	The maximum population of a species than a particular habitat can sup depletion of resources.	(1 mark) port; without (1 mark)		
7.	Water was hypotonic to cell sap of adjacent cells; and these cells absorbed water through osmosis; and their cell sap became less concentrated than those of the next cells; The process was repeated until water reached the sugar solution; (4 mark)				
8.	Fused head and thorax/cephalothorax often protected by a carapace; Gaseous exchange through gills; Two pairs of antennae; Five to twenty pairs of limbs; A pair of compound eyes; Three pairs of mouth parts (consisting of mandibles, maxillary, palp and labium) a pair of mandibles and 2 pairs of maxillae. First 3 (3 marks)				
9.	(a) (b)	Dicotyledonae; Monocotyledonae;	(1 mark) (1 mark)		

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10.	(a)	(ii) Lactic acid in animals while in plants it is ethanol/alcohol; No carbon IV oxide produced in anaerobic respiration in animals	while		
		anaerobic respiration in plants produces carbon IV oxide;	(2 marks)		
	(b)	Cytoplasm;	(1 mark)		
11.	Moves the body tube through smaller distances to bring the image/specimen/object into sharper focus;				
	Platform where specimen (on slide) is placed; (2 marks				
12.	Chord	data; Aves;	(2 marks)		
13.	Source	ce of energy; Storage materials;	(2 marks)		
14.	(a) Dry/Arid/Semi-arid/Desert; (1 ma				
	(b)	Succulent/fleshy stem; reduced leaves/ leaves reduced into thorns/leaves modified into spines/spikes;	(2 marks)		
15.	(a)	To reduce layers of cells to allow light to pass through;	(1 mark)		
	(b)	To make the cells turgid/prevent drying up;	(1 mark)		
	(c)	To protect the lens on the objective;	(1 mark)		
16.	(a)	Weakened/defective valves in veins; causing blood/body fluid to accume			
		swelling.	(2 marks)		
	(b)	When exposed to air they disintegrate/rupture/burst; releasing thrombop thrombokinase	lastin; (2 marks)		
17.	(a)	L- Duodenum;			
17.	<i>(u)</i>	M- Pancreas;	(2 marks)		
	(b)	(i) Bile;			
		(ii) Emulsification/emulsifies fats;			
		(iii) Provides alkalinic medium for enzyme action.			
		(iv) Neutralizes acidic chyme.	(2 marks)		
18.	(a)	Sublingual gland; submaxillary gland; parotid gland; submandibular	First one (1 mark)		
	(h)	Lubricating food; digestion of starch; moisten food; provide alkaline med	,		
	(b)		t two (2 marks)		
19.	(a)	(i) Skin; (ii) buccal cavity/mouth cavity	(2 marks)		
	(b)	Glucose + Oxygen (enzyme) Carbon IV oxide + water + energy;			
		C, H,, $06 + 60$, $(enzymg)$ $6CO_2 + 6H_2O + ATP$	(1 mark)		
20.	(a)	X:,	(1 mark)		
	(b)	X has fewer stomata; most stomata in leaf X are concentrated on the low	er side;		
			ny one (1 mark)		

21.	(a)	Where different structures evolve to perform the same function (e. and birds are different in structure but are used for flying);	ere different structures evolve to perform the same function (e.g. wings of insects birds are different in structure but are used for flying):				
		, 6/,	(1 mark)				
	(b)	Missing links;					
		Distortion of parts during sedimentation/earthquakes/putrefication; Destruction of fossils by geological activities/faulting/folding;					
			First two (2 marks)				
22.	Air th	hat enters lungs has a higher content of oxygen than air that leaves th	ne lungs;				
		Air that enters the lungs has lower content of carbon (IV) oxide than air that leaves the lungs;					
			(2 marks)				
23.	(a)	(i) Ovule;	(1 mark)				
		(ii) Axile placentation;	(1 mark)				
	(b)	Orange or any correctly named citrus plant;	(1 mark)				
24. (a)		() Dominant gene expresses itself phenotypically in both its homozygous and heterozygous states while recessive gene can only express itself phenotypically					
		in the homozygous state;	(1 mark)				
		(ii) Continuous variation is a characteristic for which there is a	· · · · · · · · · · · · · · · · · · ·				
		while discontinuous variation is a characteristic for which	while discontinuous variation is a characteristic for which there are discrete				
		categories or units;	(1 mark)				
	(b)	Either all offspring show the dominant characteristics;					
		or half offspring show the recessive while the other half show the dominant					
		characteristics;	(2 marks)				
25.	(a)	Softening of leather;	(1 mark)				
	(b)	Treatment of malaria/manufacture of antimalaria drugs.;	(1 mark)				
	(c)	Stimulant used in beverages;	(1 mark)				
26.	egg/o	egg/ovum/ova; (1 ma					
27.	(a)	Ligament;	(1 mark)				
27.	(b)	Secretes synovial fluid; contains/holds the synovial fluid in place;					
	(-)		any one (1 mark)				
28.	. (a) It is a growth movement in plants in response to a unidirectional stimulus;						
20.	(a)	it is a growth movement in plants in response to a unidirectional s	(1 mark)				
	(b)	Accelerates growth of shoots;	(1 1114111)				
	(-)	Can inhibit growth of roots;					
			(2 marks)				
29.	Activ	Activate enzymes; provides a medium for enzymatic activities to break down stored food to					
		soluble form; Hydrolyses; dissolves food materials; is a medium of transportation of dissolved					
	food substances to growing regions of radicle and plumule;						
Softens seed coat to facilitate emergence of radicle; First four							