1. The photographs below represent three mammalian bones, labelled \mathbf{E} , \mathbf{F} and \mathbf{G} .

Roll Parce correct E G With reasons, identify the bongs () 6 (a) Jun - Musid Identity Boner Reason(s) 619 973 Scapula / Shoulder black E enen1 (3 marks) (+ morou) her with themerof 5 noundles asti cula ta ter the Scapu condy 125 that ate With Ulna E lour Forsa 01e (2 marks) Serosity (fuberositie) 1-e sse nax Bicipital cipital groove G * (ulna) has sugnered notely Acceliur and to culation A463 Recoluct, HIMA , Recoluce - MIME A463 Revelui & uner Reached ung & Har O Lecranon Rejection Rovelan adore guidlas . Alore Rucher - together with recism (2 marks) Name the joints formed at the anterior and posterior ends of F. (b) Bould Socuet Anterior end ... Ball & Socket | Brill socket Socket & Ball 1 (1 mark) Posterior endthingth Kenya Certificate of Secondary Education, 2018 231/3 918381 9183

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State the types of movement facilitated by the joint at the anterior end of specimen (c) Rite tion I Returnal Lup and Down Stide - ways of the a (1 mark) 13600 Forward F Back Wards Name the substance found inside the living tissue of the specimen represented in (d) (i) (1 mark) Manufactur y blood Call R.R. C M.B. e Plateret, Repect' - Manufacture of blood elements. (ii) State the function of the substance named in (d) (i) above. (1 mark)Bon+ Marrow 2 efect - Manny Grane. Ming Spelling To refecte Thirt & long bone mannes of to feelly, Name the muscle bundle usually attached onto the front of the specimen (e) (i) represented in photograph F. (1 mark) BICEPI Refeet : Frexort Bicepti (ii) State the function of the muscle bundle named in (e) (i) above. (1 mark) Contract & Relax to more the longer ame Cupwords Contracti to more the liner arm upword, / Flex bend the am Relaxer to more the lower and downwoods, extends (Branglites / Aretch the arm. Q - Support [Transport 02 - Trans port in enumeds] ISOR044. Nutre tur Q3 - Reproduction

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serte

2. Below is a photograph of a blood smear from a normal individual. The arrangement is arbitrary and the number of blood elements is greater than what would normally occur in an actual microscopic field.

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(a) (i) Name the blood elements labelled J, K and L. (3 marks) Specting must be J Engthro cyte(s) Red blood Cell(s)	h b
Rejecti - monogites K. Leuco ay teg White blood Cella cosinophil Basephil - ymplogites L. Huron boaytes / plateletegs Rejecti - gran Moastes. (ii) State one function of each of the demonstra	COHM
(3 marks)	·
J Decept transpostation of respiratory gases. 9 G) 5'(ii) - Lied - Fight discuser L.	
Kenva Cause	

Scanned by CamScanner

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(b) The photograph below is of a section of the human intestines of a patient suffering from a common parasitic disease.

Flored's On mit Therten Coale Ict G (1 mark) Name the disease. (i) Amoebic dysentary Amoebiasis (ii) Name the parasite that causes the disease in (b) (i) above. * (1 mark) - Boiling (chioringiting) treating drinking water (2 marks - Boiling (chioringiting) treating drinking water - proper Chorage of Food (Keeping He Food Covered) - proper (obking of food) - proper (obking of food) = blocking to be body in pit latimes (toileto /the (iii) State two control measures for the disease. (2 marks) = blashing hand's beg hardling Food / after visting toulet / latin (iv) State the effects of having the parts labelled G in the patient's intestines. (2 marks) - prin 1 Abdomina 1 prin 1 riches - Bloody Stor Bleeding in the intestines - Impaired absorption (ray paired Sigettion of Food) Reject: - Armarch ache. protence of mucas in the And

6 **PDF Compressor Free Version** You are provided with a specimen labelled H. With the aid of a hand lens, examine the external 3. features of the specimen. Accept of hegune Hut ad fout (a) (i)What part of a plant is specimen H? (1 mark) Reject' outrag crean spelling mittake Fruit () I've Found sogestier with reasons ; understand i.e Fout, Fruity, Fruite & proceed Give two reasons for your answer in (a) (i) above. (ii) (2 marks) Has the scars point of attachment trio Accept! Has epicar Open up specimen H longitudinally. (b) Meso ca Use a hand lens to observe the internal structures of specimen H. 973 (i) Draw and label the internal cut surface and associated structures of specimen H. bit is blank then (5 marks) L(ii) . even 17 it is wit stalk 05 ND 0 Explain how you would determine the magnification of the drawing made in (ii) (b) (i) above. (2 marks) - Longth of 62 Actual leight of object Nlg is Calente by Measuring L-9 D objec Conductation Correct ce for bo & missing in the Kenya Certificate of Secondary Education, 2018 DL 918381 231/3

PDF Compressor Free Version Reper Sett explation Sett - des persuits Consor mechanismy Segue elve - dispersal meeting (iii) State the mode of dispersal for seeds of specimen H. (1 mark) Departed mechanism feltedispersal mechanism Ficlentify Get 7 (iv) Explain how seeds of specimen H are dispersed through the mode stated in A Explanation (b) (iii) above. (3 marks) - When the pool dries loses water: pressure buildi from within the pod . The pod splits open along line of weakness Sutures (and the feeds are thrown away from the parent plant) When the pod driver floter water; the poel Spliti * The post Distance, along time of Warenews Sure building) line of Heaknow Split. / Sisterice Creation THIS IS THE LAST PRINTED PAGE. S

The photographs below represent three mammalian bones, labelled E, F and G.

Knowlad Correct G E With reasons, identify the bongs of bo (a) Identity Reason(s) Ster Bone Scapula Shoulder black E Spine ridge (For astachement of musche Has coracoid Has cicromic (3 marks) recther with about thea D + SOCK ater With the - queiligy Scapula on the astrantate with ulma & realing concly 125 the Has trochilea/ olecramon foissa (2 marks)Heis greater l'iesser tuberosity (tuberositrei Has Bicipital grove Kulman) has sugned note Decoluis attached to uncom Pecolus una fragment Almen I tumenes Recelui quines / Radial una & Has Olecranon process Repeating Reveloping a lone guillage a lone (2 marks) Receivern - p together With recision, Name the joints formed at the anterior and posterior ends of F. Anterior end Ball & Socket Brill Socket & Bull / Socket & Ball (1 mark)