## BIOLOGY PAPER I (SUI) MARKING GUIDE 553/1

AND THE REPORT OF THE PERSON O	possessed i format programme de l'outer dessert de l'outer de l'ou	, A	
SE	GWN A		-
IA	11 C	21 C	-
2 C	12 D	22 B	15
3 b	13 C	23 D	
4 C	14 B	24 D	
5 A	15 D	as c	
6 B	16 D	ab C	
7 C	17 C	A FOR STATE OF THE	
8 B	18 C	28 A	_
9 C	19C	29 D	
10 C	20 A	30 B	
10		@   mark (30)	
	THE RESERVE AND ADDRESS OF THE PERSON OF THE	Vacantina and the same of the	

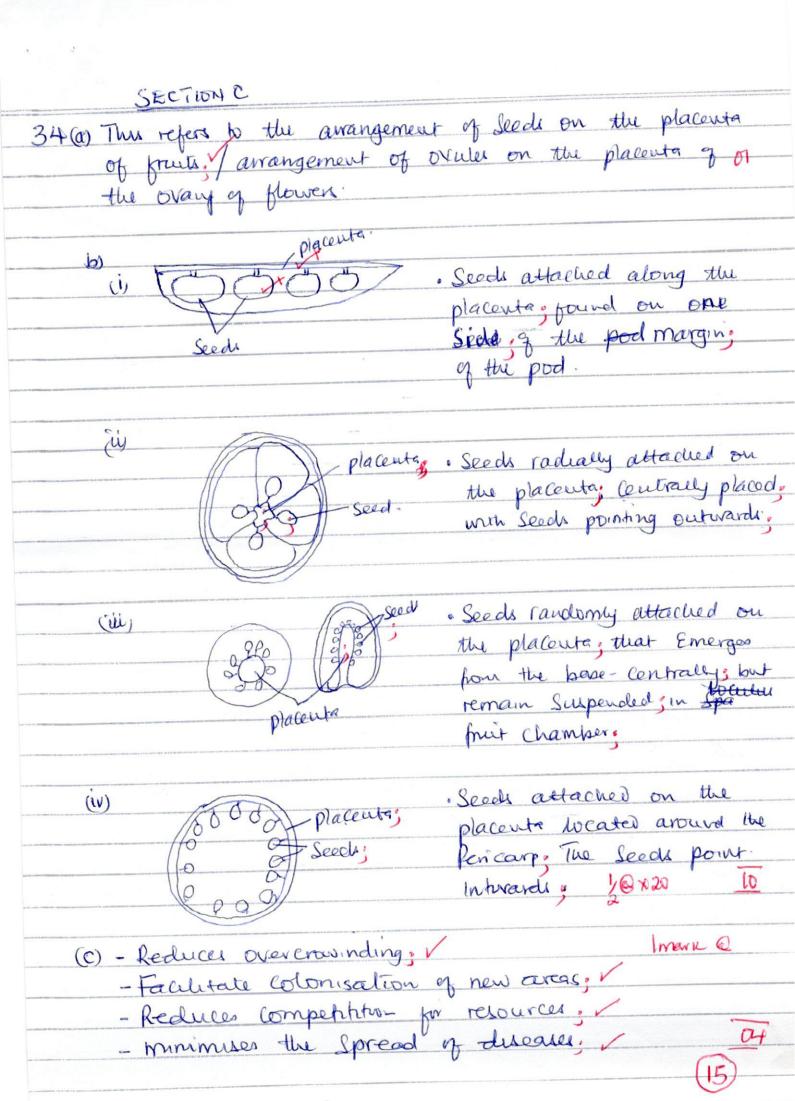
through the Stoma many Stomatas, ~

al located rate of transpiration.	8 100
31-(CAReduced   decreased rate of transpiration.	/
c-Reduced accreates	03
Theore &	
dy plant species By because it doesn't lose the upper Epidermis, due to presence & Imani each	wals through
(dy plant species by because it award to	- Hace Cuho
the upper Epidermis due to presente b	02)
lman each	02)
(e) - Sunker Stomate	
- Reduced Size of leaves  - Thick Ceepide ay 20 mark	02
- Thick Ceehcle any a	
- Shading of leaves	
- ROY ford leaves	
- Shiny Surface	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
- Opening Stomate at night and clote dury	day
- Operation source	
	Total (20)

32(a) A - Grows Straight, Bli Bent to words light. (Should Indicate direction of the band. (ii) No growth No change (iii) Grows Straight, C. Bent towards the Side with the tip (Indicate derection each y mark x 5 (b) A - Awans remain uniformly distributed; became the Short was occioning the light uniformly; Bally Caused the auxon to move more on the darner side, that grew faster than the Muminated Side, thence leading to the Sloot bending towards light, B. When the top is but off, the auxins which are the shoot didn't grow; Gin The black polythene prevented light from reachip the stip of the Shoot this made the auxin to remain lempornly dumbuted, hence shoot Continued to grow Straight. 6- Auxons were on the Cut tip; So when the tip was placed on one Side. this Side agrired more curans, Teaching to this Side growing fails thon the Side with tip, honce bending towards that

for photosynthement of the director of light to receive light

33 (a) A - Aorta
B- Venacava.
c - Pulmonary artery:
D- Left Venincai git
E- Right acericle / atrium.
F- Commany eartery. It &@ x6
is Bills pumps blood to the rest of the body;
F-Supplies the heart muscles with blood Containing
mitrients and oxygen;
(c). Has three (lardrae) mudes. that the generate alor queres when it contracts
Pressure, when it contracts  . A west supplied with blood versels. that Supply the  much mutherents and oxygen, need for 52
di Structural defference.
· mammalian heart has of champs water me mes.
Jun has 2 chambon;
Functional difference
· Mamon Blood Circulation around the mammalian heart funce (double circulation) but more around the heart
busice ( Lough circulation) but there around the heart
9 freh Due (Single Circulation) in every Cycles 2
(2) - Cononary disease (10)
- Heart attack   Cardiac arrest. any of



35(a) A meal of placed in the mouth, its chewed; to Increase Surface area, then good is moved with Saliva; · Saliva Contains an enzyme Salivary amylase, that breaks down / hydrolyses Starch to maltore: The food is then Swallowed, into the disselement. where Starch digestion by Salvay amylase; The food then enters the Stomach, where the Stomach wall release gastric juice; Containing Enzymes Rennin and pepsin; At this point pepsin acts on proteins hydrolysig them to peptides (polypephides); . From the Spomach food enters the devolenous, where the gan bladder release bile that emulsifies the lipids; and the paveres release the paverente puice; that contains the following enzymer; · Paulicatic amylase hydrolyses the remaining Starch to maltore; · Trypsin, that hydrolyses the remaining proteins to peptide. Pavercatic lepase that hydrolyses lipids to fatty a aid binds a lycerol: · The good is then passed on to the Merm; whose wall releans a juice carled Success ententes, that Constain Sevenzymes en among which are " Maltase that hydrolyse maltore to glucose; · pephdasos that hydrolyse pephdes to amino acidi; . hipases that hydrolyse the remaining lepids to feely and Total TO and glycent; NB Rej use of fats for Suprole May 07 ACC. Outs for lipids

· Glucise can be oxidised to release energy used by the body, Excess Gluevie is Converted to glycogen; then Stored to fats; and Stored under the Skin; (in adipose tissued) · Amino acide are re-assembled into protoins; used for body building; of production of body Secretion like hormones | Enzymes . The remaining aminoacids are de-aminated, release amino group that is released in Urine as wreg, the remains part converted to gluevie; . feetly a each and gly covor can be oxidised to release energy or assembled to built body Smitheres, Excent is Stored in adipose tissues under the Sking 63 (c) - Have 4 - chamboned Stomach, to ensure maximum digestini, - Chew and to mercane digestion expressive - Ruman has Cellulyse digiting bacters that help them digest Cellulore, - Have show radged motors and premotors, that grind food throughy well,

3600. Some forms of bacters fallitate the dead organic matter, fallitating	de composition of					
dead organic matter, facelitating	the re-cyclings of					
nutrients	there are b nitrales.					
. Some bacteria converta Uscable n	trater can be used					
(niting en posation) so that the ni	many care is					
1 1-1 - la mari proteins	1000 100 100 100 100 100 100 100 100 10					
Come haltena (NIMpying) with animorted for						
do com motion to Nescotta form						
· Some bacteur restrates the Composi	ach h nitwigen gar.					
in our by converting nitrates be	stem 10 ago, is					
· During de composition by some bacters, co gas, is released which can be used by plants during						
released which can be do	J Post-					
Sou organism like Parthurm Creat tunnels; that						
Increase Soy are acration, and	el capellarity:					
They turn Over the Sons, Inaprove	no sou texture drainer,					
	Geny 5					
Their waster; add humin to Soil	, ra. Activity alone					
	ig effect alone.					
(b) o Mono cropping, - We & Same minerals;						
(b) 6 11 10 to copping	of Particula minerally					
· ploughing up & - Create chamels s	· Increases Envion,					
the best to run the weater	A STATE OF THE PARTY OF THE PAR					
& Excess use q . Accomulation 9;	· Affect Sou Smirture/plt;					
1 2000000000000000000000000000000000000						
. De forestation, Exposes Soil!	- Sou Ension   leaching					
· overgrazing; - Exposes Soil;	- Sou Erosions					
- Wo Jani Low						
· Over cellivation - loosen Son;	- Sou Endong					
· Construction mining - Creats Channels for	- Soy Enotions					
runo of wale	- Soul Emiliany DS					
· Bush burning , - Exposes Sore;	- Soil Ending Do Reclues deval, drangs, Capit					
· Nimas wastes ! - Chokes for 's	, in the second					

360 polythone are non-brodegradeable. So when they accomulate or dumped in the Soil affects blocker arizand water of spaces and passages, depriving plants of water, and Daygen is deprived from Soy organisms for respiration.

When beautify release toxic gases; that may ken organism.

polythone can block drainage channels blacking to floods.

37 (a) It removes waste products, from the body, that if left to accomulate would become toric faffect body Systems for cons to In humans wine is produced by functional units found in the kidney known as nephron, blood entering the rephrone through the afterent Vessel is under high pressure. This blood meets resustance of the Coiling of the glomerulus, this leads to Snarl Components of Solord in blood hue, ghieve aminopan through the pour; of the glomorulus, then collect an q Cup- Shaped Shrieture carled the bow-many Capsule as glomerular filterate; The futerale then passes through the proximal Convaluted tubules where; · All glueous is re-absorbed actively: All amino a cook re-absorbo achiety; · Some vitamine and ions are allo re-absorbed actively; The re-absorption of mineral bond leads to equivalence re-absorphin of water by Osmorius, The remaining peterate Continues to the loop of Heule; where witness low are re-absurbed actively followed by water osmotically; The re-absorption of mineral com and water continues in the Dustas Convolution tubule; then the Collectif duce The remaining fluid now refered to as wine is poured into the good Urinary bladder; ya ( ) - Re-use waste products produced. ( we we produced in resp.) - her metabolically achive produce lon work (stationar). - They produce only what they need bent autohophic;

- They donor take in Proton food they leads to production 9.