WAKISSHA JOINT MOCK EXAMINATIONS MARKING GUIDE Uganda Advanced Certificate of Education **UACE August 2023** BIOLOGY P530/1



SECTION A (40 Marks)

1,	C					
	D -C	11.	A A	21. C	31.	B
3.		12.	D	22. A	32.	C
		13.	A	23. C	33.	Α
4.		14.	D	24. C	34.	D
5.		15.	C	25. C	35.	В
6.		16.	В	26. B	36.	
7.	A	17.		27. D	37.	
8.	C	18.			38.	
9.	C	19.		28. D		
10		19.	ע	29. D	39.	D
10.	D	20.	A free	30. B	40.	C

1 mark @ 40 x 1 = 40 marksSub-Total = 40 marks

SECTION B (60 Marks)

- 41. (a) Compensation point is that time of day where photosynthesis and respiration proceed at the same rate; and there is no net gain or loss in carbohydrate, CO2 or O25
 - (b) Single CO₂ fixation occurs in mesophyll cells in C₃ plants; whereas C₄ plants have double CO2 fixation both in mesophyll cells and bundle sheath cells increasing the CO2 concentration, consequently the photosynthetic rate.
 - 1 Triose phosphate 3 Carbon sugar glyceraldehyde 1 FGAL; X 2 Acetyl COA A cetyl co ensyrre A; X B Krebs cycle: X (c)
 - B Krebs cycle; I lithic acid cycle; Truca-braglic acid cycle;
 - Rej of spelling is mong. X (olsmarks) The Krebs cycle is important in the synthesis of ATP; and (ii) hydrogen carrier molecules; like the NADH and FADH; which will be feed into the Electron transport system to generate more ATP molecules;

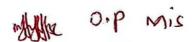
-Accept oxidative decarbopylation only if ATP production is mentioned; TOTAL = 10

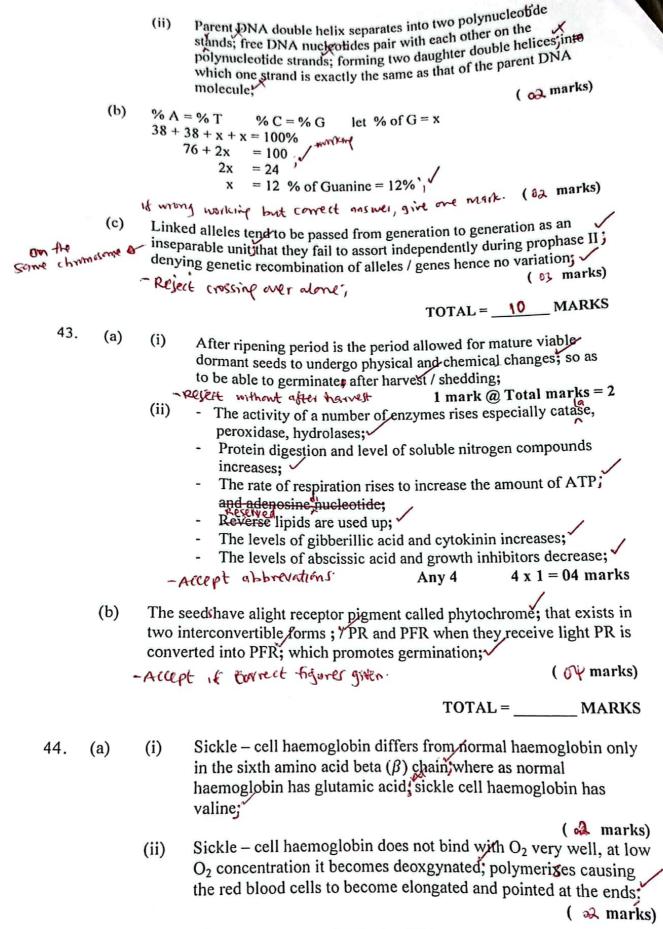
Is made of two polynucleolide chains held together by hydrogen (i) 42. (a) bonds through organic bases; and twisted along an axis to form a double helix;

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. (3 marks) Page 1 of 4

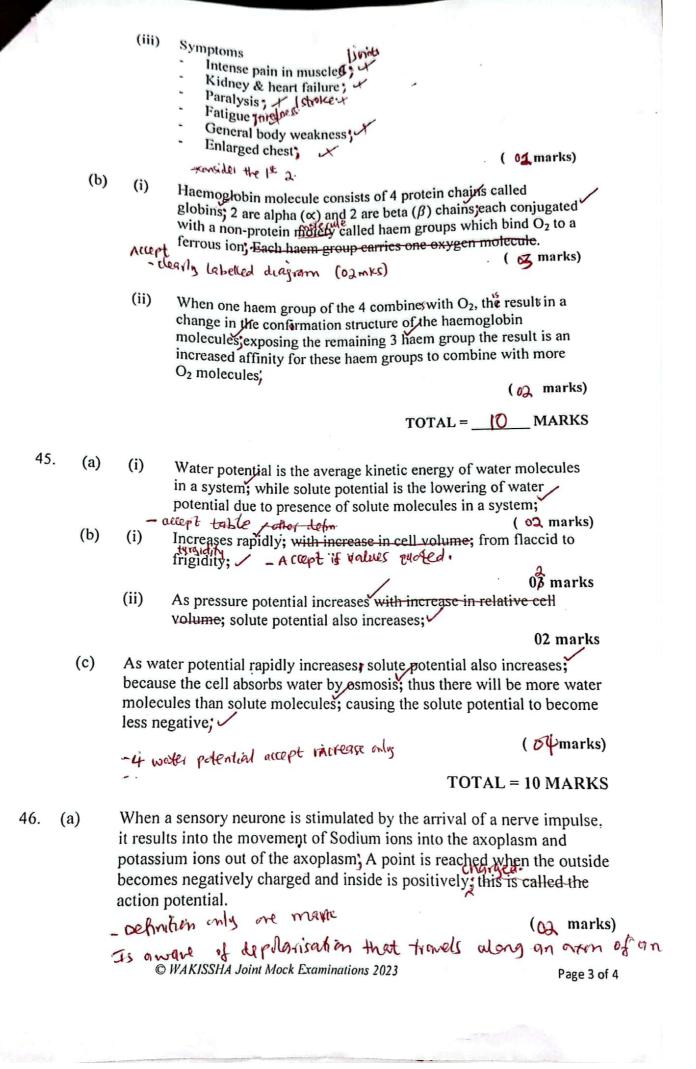
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CS CamScanner

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Somatic	Autonomic
- Involves skeletal muscels	Involves glands, smooth muscles,
One nerve fibre from CNS to	Two nerve fibres involved;
- No ganglia	Nerves synapse at ganglia
Neurotransmitter Acetylcholine (Ach)	Ach and norepinephrine (NE)
Always excitatory;	Excitatory and inhibitory
Voluntary conscousness	involuntary',

Parasympathetic nerves terminal ganglia is near or with in target organs which result into direct stimulation of the target organs

thus more selective; as compared to the sympathetic nerves whose

ganglia are located further away-from the target organs;

()2marks)

(ii) Somatic nerves are thicker / big and are myelinated, the end result is faster conduction speed whereas autonomic post ganglionic nerve fibres are thin / small and are unmyelinated thus low conduction speeds;

(02 marks)

TOTAL = 10 MARKS

END