MARKING SCHEME.

NAME	INDEX NO		
SCHOOL	SIGNATURE	DATE	

INSTRUCTIONS TO CANDIDATES:

- (a) Write your name, index number and school in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) Answer all the questions in the spaces provided.
- (d) You are required to spend the first 15 minutes of the 1¾ hours allowed for
- (e) This paper reading the whole paper carefully before commencing your work.
- (f) This paper has three questions.
- (g) Students should check the question paper to ascertain that all the papers are printed as indicated and that no questions are missing.
- (h) Candidates should answer the questions in English

FOR EXAMINER'S USE ONLY

Question	Maximum Score	Candidate's Score
1	16	
2	13	
3	11	
Total Score	40	

- You are provided with three unknown solutions labeled S1, S2 and S3. You are also laboratory apparatus provided with Benedict's solution and iodine solution, together with other
- (a) Procedure
- solution. Shake to mix and then heat the test tube over a Bunsen burner To about 2ml of solution S1 in a test tube, add an equal amount of Benedict's
- Repeat the same step in (i) with solutions S2 and S3
- Ξ Record your observations and conclusions in the table given below. (6 mks)

Test tube	Test tube Observation	Conclusion
S1	Tellow Orange Brown	present. Sygar
S2	Blue Colour Persists	Reducing Sugar
S3	Blue Colour Persish	the ducing sygar

(b) Based on your observation in (a) above, give the name of a common food

substance belonging to the class disaccharides that may be present in S1.

Malbore / Lactore;

(1 mk)

(c) From the experiment in (a) above, explain how you would carry out a test for

someone with diabetes mellitus in a school laboratory. (3 mks)

(d) (i) To about 2ml of solution S1 in a test tube, add three drops of iodine solution. Shake the tube mix the contents.

(ii) Repeat the step in d (i) above with solutions S2 and S3.

Add equal volume of Benedicts Solution, Heat to boil; It the Glove turns from has

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(iii) Record your observations and conclusions in the table given below. (6 mks)

S3	S2	S1	Test tube Observation
Alue black Colour	Pellow Briws Glow	Yellow Brown Colons	Observation
larc Co	BINNE	Brown	
DUT	Wow	(B) WY	
a part Tusom!	Staven Rose +	Staron assem.	Conclusion

You are provided with specimen T. Examine it carefully and answer the questions

2 that follow. (a) Name the sub division to which the plant belongs. Give a reason for your

Presence of a flower; Argiospermato phyta;

(b) Name the class to which the flower belongs and give a reason for your

- Network Veins on 8 Stamens. veins on the brads.

(c) Examine one flower with the help of a hand lens and describe the following

- It has five fate fetals;

- The fetals form a hube and are fused;

- The inside of the fetals are fellow in a lour.

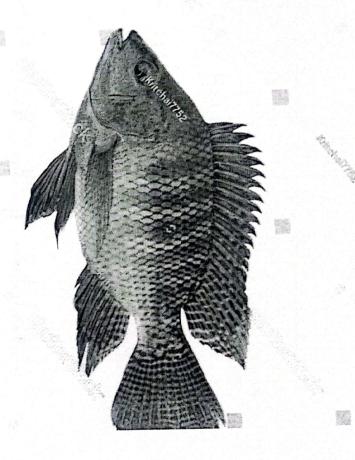
(d) Isolate the carpel of the flower and make a labeled drawing of the same.

Stigma; (3 mrks)

Style;

Dvary; L-3=2.

The photograph below represents an organism that lives in aquatic environment. Examine it carefully and answer the questions that follow.



(a) (i) Using observable features only, name the class to which the specimen belong (1 mk)

Visces;

(ii) List two features on the lateral part of the organism you would use to identify the class apart from the fins

Backward Pointing Scales that are Over lapping. fresence of lateral line;

(b) Briefly describe how the specimen moves in its habitat. (4 mrks)

Movement of tail to one side pushes

Movement of tail to one side pushes

water backwards and side ways. The backward

push on the water charter a forward reaction

that pushes the pyganism forward. The

sideways oxy in the opposite direction

sideways oxy in the opposite direction

in the opposite direction

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(c) With reference to the specimen above, state what is meant by the occurring. following movements and name the structures that prevent each from

(i)Pitching Prevented by fectors and Polvic fur;

(ii) Rolling Rotation of the Afish along its axis;
- Revented by drovsal, anal and fail カック