CHRISTIAN SOCIAL SERVICES COMMISSION (CSSC)

NORTHEN ZONE JOINT EXAMINATIONS SYNDICATE (NZ-JES)



FORM FOUR PRE- NATIONAL EXAMINATIONS AUGUST 2024

BIOLOGY 2A

ACTUAL PRACTICAL -A

MARKING SCHEME

1.(a) Sense organs observed

Eye, ears, tongue, skin and nose

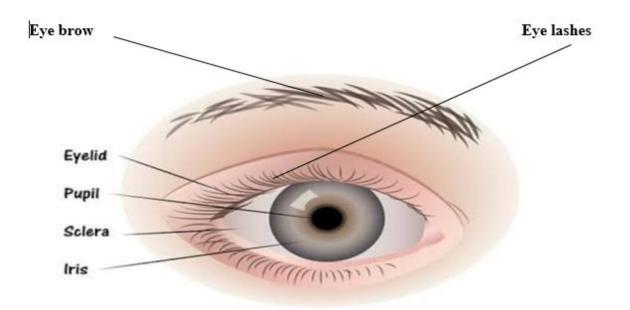
(00¹/₂ @ = 02¹/₂ Marks)

(b)

SENSE ORGAN	STIMULUS	RESPONSES
Eyes	Light from object	Vision/ seeing
Ears	Sound, Body posture	Hearing, body balance
Tongue	Food, chemicals	Tasting
Skin	Touch, pain, pressure	Feeling
Nose	Smell, chemicals	Smelling

(00¹/₂@ = 05 Marks)

(c) (i) THE DIAGRAM OF THE EYE



D=02
C=01
L=00½@=03

Total marks=06 Marks

Parts of the eye	Functions
Eye lids	Cover and protect eye from particles
Eye lashes	Prevent the eye from entry of small foreign particles
Eye brows	Prevent dust and sweat from entering the eye
Iris	Regulate the size of the pupils and hence the amount of light entering the eye
Pupil	Allows light into the retina
Sclerotic layer	Protect the inner parts of the eye

(ii)Functions of the parts labeled

011/2@=09 Marks

(d) Muscles that moves the eyeball (oblique and rectus) attached to the sclera. 01 Marks

(e) To maximize human vision. 01½ Marks

TOTAL MARKS = 25

2.(a)Common names for the following specimen

P– Grasshopper

- Q Earthworm
- R- Fern plant
- S Housefly
- T- Yeast

01@=05marks

(b) i. Classification of specimen to class level

Kingdom	Phylum/Division	Class
Animalia	Arthropoda	Insecta
Animalia	Annelida	Oligochaeta
Plantae	Filicinophyta	Filicinae
	Animalia Animalia	AnimaliaArthropodaAnimaliaAnnelida

00¹/₂@=04¹/₂ Marks

(ii) Distinctive characteristics of kingdom fungi

- They have cell wall made up of chitins

-There bodies are made up mycelium

-They feed saprophytically

001/2@=011/2 Marks

C.(i) Q-Moist soil

R-Terrestrial moist areas

01@=02 Marks

ii. -They are used as source of food for other organism

-They are used as bait in the fishing industries

-They are used in commercial production of compost manure

-They are used as specimen in biological studies

-They removal pollutant from the soil and clean the environment by transforming organic waste during feeding

-Improve soil texture

-Improve soil aeration by burrowing in the soil.

Any 4 points 01@=04 Marks

D.-Cholera

-Amoebic dysentery

-Trachoma

-Typhoid

- T.B

-Leprosy

-Polio

Any 5 points 00¹/₂=02¹/₂ Marks

E.	i) Sporophyte generation	00 ¹ /2 Marks

- ii. Horsetail and club-mosses 01@=02 Marks
- F. -Baking

-Brewing

011/2@=03 Marks