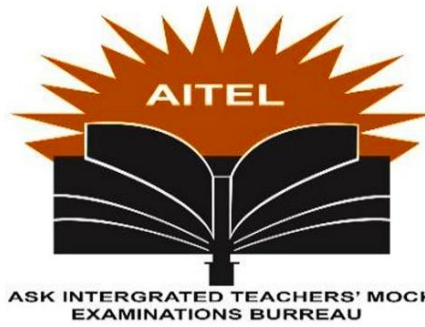


CANDIDATE'S NAME Random Number



END OF TERM I ITEM ASSESSMENTS 2024

S.4 BIOLOGY

Paper 2

Practical (553/2)

2 hours 30 minutes

INSTRUCTIONS

Attempt all Items

ITEM 1:

YEEKO CEO AITEL is a 40 years old man who constantly experienced difficulty in breathing. The condition has stayed for six months now. The doctors recommended him to remove some foods from his diet. You have been provided with **solutions L** and **M** which are food samples from YEEKO'S daily meal.

Task

Carry out scientific investigations to determine the nutrients composition in food samples, use the results to advise CEO YEEKO on how to manage his condition. (20 Scores)

ITEM 2

AITEL market in one of the slums of Kampala district. The ministry of health has declared an outbreak of cholera in the market, and the disease is already claiming people's lives. In an attempt to study the situation in the market, ministry officials observed that the market has a lot of garbage including human waste that were poorly disposed. The market vendors freely eat uncovered food and drink unpacked juices, on further observation, the ministry officials sighted common insects all over the market, samples of which were collected for analysis to cholera outbreak. **Specimen A** and **B** are some of the organism collected from **AITEL market** by the ministry officials in relation to the problem

Task

- a) Using observable features and with reasons, identify the specimen responsible for the problem in **AITEL market**, giving adaptations for survival of the specimen and advise the ministry of health on how to control the specimen. (10 scores)
- b) Draw the specimen identified in (a) above, and label structures involved in transmission of the disease Give reasons for every feature labeled. (10 scores)

END