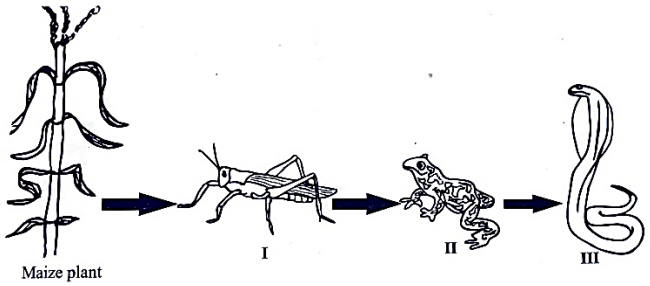
EDUCATION-NEWS CONSULT
MARCH 2026 SUPER MOCK 1
SCIENCE 1&2
2 HR, 10 MINS

Name: .....
Index Number: .....

PAPER 2

[100 MARKS] SECTION A
[40 MARKS]
Answer all of Question

1. (a) The diagram below illustrates the feeding relationship between organisms in a particular habitat. Study it carefully and answer the questions that follow.



(i) Identify the organism labelled **I, II** and **III.** [3 marks]

(ii) What feeding relationship is illustrated in the diagram? [2 marks]

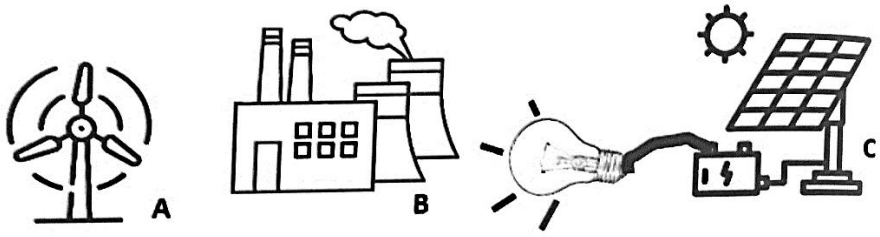
(iii) Name **one** organism each that can be replaced by organism **I, II,** and **III.** [3 marks]

(iv) Which of the organism is

(α) secondary consumer;

(β) primary consumer. [2 marks]

(b) The figures below illustrate energy generation processes. Use them to answer the questions that follow.



(i) State **one** name that applies to all of them. [2 marks]

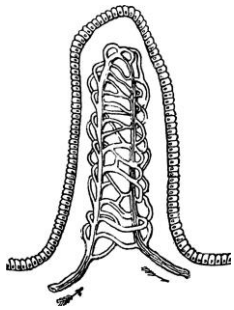
(ii) Identify the parts labelled **A, B,** and **C.** [3 marks]

(iii) What is the main source of energy to the parts labelled **C**? [2 marks]

(iv) What happens if the parts labelled C did not received it maximum energy? [2 marks]

(v) Name **one** place where figure **A** is used? [1 mark]

c. Study the diagram below carefully and answer the questions that follow.



i. Identify the structure illustrated above. (2 marks)
ii. In which part of the human alimentary canal is the structure found? (2 marks)
iii. Which function does the structure play in food digestion? (2 marks)
iv. State two features of the structure that enables it to perform the function you have stated in question (iii) above. (4 marks)

d. An effort of 60 N is applied onto a 2-metre long rigid bar to lift a box weighing 180 N. The effort distance is 160 cm.

i. Sketch the bar showing the effort, pivot and load. (3 marks)
ii. Calculate the load distance. (2 marks)
iii. What is the efficiency of the machine? (3 marks)
iv. Why is the effort distance longer than the load distance? (2 marks)