

ANSWER KEY**I. TEXT COMPREHENSION** (10 marks)**A) Table Completion** (02 marks)

1. A novel process has been developed.
2. NYU researchers want to improve nitrogen use efficiency.
3. Plant genetics is integrated with machine learning.
4. Corn has low nitrogen use efficiency.

B) Discrimination (03 marks)

5. Science has demonstrated that Arabidopsis and corn have genetic similarities.
6. Biologists frequently use Arabidopsis in genetic experiments to test hypotheses.
7. Coruzzi found the same Arabidopsis gene reaction to nitrogen in other plants.

NB: #8-9 are distractors

C) MCQ (03 marks)

10. c)

11. a)

12. c)

D) Referencing (02 marks)

13. Genes;
14. Measures of how genes in corn and Arabidopsis respond to nitrogen treatment.

II. LINGUISTIC and COMMUNICATIVE COMPETENCE (06 marks)**E) Paragraph Unscrambling** (02 marks)

15. b)

16. e)

17. a)

18. d)

19. c)

(The grader shall grant the full 2 marks upon counting either 4 or 5 correct answers)

F) Picture Labeling (02 marks)

20. Male gametophyte;

21. Central cell;

22. Elongated;

23. Hypophysis

G) Word Derivation (02 marks)

24. equipment

25. ecological

26. feed.

27. transforming

III. WRITING (04 marks)

Please, grade this section according to the following scheme.

Relevance of ideas	⇒	02 marks
Coherence	⇒	01 mark
Language Use	⇒	01 mark