

NEB-GRADE XII

Biology (Botany+Zoology)

Model Question [2077 (2020)]

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 1.30 hrs.

Full Marks: 30

(Note: This question paper contains Botany portion in Group 'A' and Zoology portion in Group 'B'. Complete Group A (Botany) and then go to Group B Zoology.)

Group 'A'
Botany

Attempt **all** questions.

1. Answer in short on any **two**. 2x1=2
 - a) Give any two names of xylem elements.
 - b) Illustrate about recessive.
 - c) What does it mean by farmyard manure ?
2. Describe in brief on any **two**. 2x3=6
 - a) Structure and function of chlorenchyma.
 - b) Double fertilization.
 - c) Application of biotechnology.
3. Define respiration and describe the various steps involved in Kreb's cycle. 7

Or

Define crossing over and describe its mechanism and significance with necessary diagrams.

Group 'B'
Zoology

Attempt **all** questions.

1. Answer in short on any **two**. 2x1=2
 - a) What is pellagra ?
 - b) What is the term for one contraction phase and one relaxation phase of heart ?
 - c) Differentiate between vaccine and injection.

Contd...

2. Answer in brief on any **two**. 2x3=6
 - a) How coelom is formed during development of frog ?
 - b) The problems of population explosion.
 - c) The advantages of poultry farming.
3. Describe the structure and functions of pituitary gland. 7

Or

Explain sources and biological effects of different categories of drugs.

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