2023

AGS 1st Semester Examination

B.Sc. Hons. in Agriculture

Fundamentals of Agronomy

PAPER — AGS-106

Full Marks : 50

Time : 2 hours

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The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

1. Answer *any* **five** questions from the following : 2×5=10

(a) Define agronomy.

(b) Define allelopathy.

(c) Write down any two merits of dibbling.

(d) What is high-analysis fertilizer?

(e) Write down the sectors in which the following revolutions occurred :

(i) Green

(ii) Blue

(iii) Yellow

(iv) White

(f) Define crop.

(g) What is weed? Who coined the term 'weed'?

(h) Why often thinking of seedling is recommended in crop field?

2. Answer *any* **four** questions from the following : 5×4=20

(a) Describe the role of water in plant. 5

(b) Define seed. Write down the characteristics of good seed. 2+3=5

(c) What is crop rotation? Write down the principles of crop rotation. 2+3=5

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(d) Briefly discuss on broadcasting along with its merits and demerits. 5

(e) Define herbicide. What are the characteristics of an ideal herbicide? 2+3=5

(f) Write your concept on plant ideotypes. State postharvest management of crops. 2+3=5

3. Answer *any* **two** questions from the following : 10×2=20

(a) Describe irrigation. Write down the different methods of irrigation. 2+8=10

(b) Write a comprehensive note on 'soil-plant-water' relationship. Discuss irrigation scheduling criteria and methods of crop establishment in field. 5+5=10

(c) Define tillage. Differentiate between minimum and zero tillage. Explain conservation tillage. 2+4+4=10

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(d) Write short notes on the following : $2\frac{1}{2} \times 4 = 10$

(i) Seepage

(ii) Leaching loss

(iii) Scope of agronomy

(iv) Nutrient use efficiency

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