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Total No. of Pages: 02

Total No. of Questions: 09

B.Sc. Agriculture (2014 & Onwards) (Sem. – 6)

CROP RESIDUE MANAGEMENT

M Code: 74344

Subject Code: BSAG-601

Paper ID: [74344]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION A

1. Write short notes on:

- a) Conventional tillage
- b) SMS
- c) C credits
- d) Soil temperature
- e) C:N ratio
- f) Vermicompost
- g) C sequestration
- h) Crop intensity
- i) On-site residue management
- j) No till

SECTION B

2. How much residues of different crops are available in Punjab. Discuss the role of crop residue management in nutrient recycling.
3. Define Biochar. How it is prepared and Biochar is used for raising agricultural crops.
4. Discuss the beneficial effects of crop residues w.r.t. environmental concerns.

5. Discuss the effect of rice residue incorporation on crop yield
6. Write down different steps of field preparation for sowing of wheat after combine harvested rice.

SECTION C

7. Define residue management. Discuss different methods of residue management. Discuss recent technologies for conservation agriculture.
8. Define nutrient immobilization. Discuss the long-term advantages of crop residue incorporation on crop and soil productivity.
9. a) Discuss crop residue in relation to agricultural ecosystems and conservation agriculture.
b) Discuss the soil health indicators of sustainable agriculture.