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B.Sc. Agriculture (2014 & Onwards) (Sem.-7)

ANALYTICAL TECHNIQUES IN SOILS, PLANT,

FERTILIZERS AND WATER

Subject Code: BSAG-CS 702 M.Code: 74829

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

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

SECTION-A

Answer briefly :

- (a) Radioactive materials
- (b) Mass spectrometry
- (c) Anion exchange
- (d) Radio isotopes
- (e) Sodium absorption ratio
- (f) Cation exchange capacity
- (g) Adsortion of nutrient in soil
- Terms and conditions for storage of radioactive material
- (i) Iso-morphous substitution
- Half life of carbon

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SECTION-B

- 2. Define isotopes and explain in detail the properties and uses of isotopes.
- 3. Elaborate uses of X-ray diffraction instrument.
- 4 Write principle on which X-ray diffraction machine works.
- 5. Describe principles of spectrometry in visible region.
- 6. Explain Planning for soil, water and plant testing laboratory.

SECTION-C

- 7. Explain in detail the uses of chromatography in agriculture and allied fields.
- Explain establishment of soil, water and plant testing laboratory. 8.
- of inductivel 9. Explain principle, working and uses of inductively coupled plasma (ICP) spectrometer in estimation of elemental content.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

