

Bachelor of Science (Hons.) Agriculture

Re-appear, Examination

Dec, 2024

SAAG307A-Geoinformatics and Nano-technology and Precision Farming

Time:2.5Hours

Maximum Marks: 50

Instructions:

- 1) Question No. 1 under Section-A is compulsory.**
- 2) Attempt any four from Q. No. 2 to Q. No. 6 under Section-B**
- 3) Attempt any two from Q. No. 7 to Q. No.9 under Section-C**

Section-A(Compulsory)

Q 1(a) Fill in the blanks with appropriate words:

- (i) The navigation system based on a network of satellites that helps users to record positional information-----
- (ii) Size range on a nanoscale usually ranges from-----

1 (B) True/ False

- (i) The word nano came from Greek word.(T/F)
- (ii) The first Indian satellite was named Aryabhata. (T/F)

1(c) Write Full form of the following

- 1 STCR
- 2 GIS
- 3 VRT

1 (d) Define the following term:

- (i) Precision farming
- (ii) Yield mapping
- (iii) Spatial data

Section-B

Q 2 Explain crop discrimination and yield monitoring

Q3 What do you mean by simulation modelling and write in brief on areas of application?

Q4 Enlist the importance of GIS and explain?

Q5 what are the advantages of precision farming over traditional farming?

Q6 Explain role of geospatial technology in fertilizer recommendation

Section-C

Q7 Define remote sensing, enlist components of remote sensing and explain?

Q 8 Role of nanotechnology in agriculture and explain in brief?

Q 9 What is land use planning and also explain land classification.