

SECTION -B (ESSAY TYPE QUESTIONS)
(5x10=50 Marks)

1. What Is Soil Water Retention and soil water movement? How those are affected by physical properties.
2. What is gaseous exchange in soil, how it affects the plant growth. What are the factors that influence gaseous exchange?
3. Define the following soil heat, soil resistivity, heat conductance in soil.
4. Explain how the primary and secondary tillage influence on crop performance.
5. What is meant by ion exchange and explain their significance?
6. Write a note on how the acidic soils are influences on physical properties.
7. What are the differences between organic and Biofertilizers? Write their advantages in the point of plant growth.
8. Define Soil fertility, what are the factors influencing to increase fertility.

==END OF PAPER==

MASTER OF VOCATION
Agriculture
Subject: Soil Science
Subject Code: AGM-905
Semester: Third
December 2021
Theory (External): 70 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 2 marks.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 10 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number									

SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x2=20 Marks)

- A. Infiltration rate is relatively higher in?
a) Sandy soil
b) Clayey soil
c) Silty soil
d) Clay loam soil
- B. Nitrogen fixation is accomplished by?
a) Fungi
b) Bacteria in the atmosphere
c) Plants
d) Bacteria in the soil
- C. Tillage is difficult in which type of soil?
a) Loam
b) Clay
c) Silty
d) None of these
- D. Available water holding capacity is maximum in?
a) Clay loam
b) Sandy clay loam
c) Silty clay loam
d) None of these
- E. Subsoiling is?
a) Breaking the hard part of plant
b) No inversion of soil
c) Breaking hard pans of upper soil
d) Invert the soil
- F. The fine crystalline rock is?
a) Basalt
b) Pumice Stone
c) Granite
d) Gabbro

- 32
- G. Which one of the following fertilisers is suitable and economical to apply under acidic soil condition?
a) Basic slag
b) Rock phosphate
c) Single super phosphate
d) DAP
- H. Aroma of earthy smell in the first shower of monsoon is due to?
a) Bacteria
b) Fungi
c) Actinomycetes
d) None of the above
- I. Most common soil type in India is?
a) Alluvial soil
b) Laterite soil
c) Sand soil
d) Red soil
- J. In no tillage systems, the soil layers have?
a) Higher bulk density
b) Lower bulk density
c) Higher total pore space
d) Lower water infiltration