

**Hemchandracharya North Gujarat University**  
**Community College**  
**Advance Diploma in Agriculture and Soil Science**  
**Semester- I**

**End term Examination, December-2018**

**Subject Code: - AS- 102**

**Subject: - Fundamentals of Soil Sciences, Fertility and Management**

**Date: 11/12/2018**

**Time: 2 hours**

**Total Marks: 40**

**Q-1 Answer all questions. Each question carries 1 mark**

**(10\*1=10 Marks)**

1. Solum is made up of \_\_\_\_\_.

[A] A-horizon

[C] C-horizon

[B] B-horizon

[D] All of these

2. Neutral soil having pH of \_\_\_\_\_.

[A] 0 to 5.5

[C] 8 to 14

[B] 6.5 to 7.5

[D] None of these

3. A branch of science that deals with the study of origin of the soil, its classification and description is known as \_\_\_\_\_.

[A] Edapology

[C] Pedology

[B] Ecology

[D] Geology

4. A soil having pH 6.0 is called \_\_\_\_\_.

[A] Acidic soil

[C] Saline soil

[B] Alkaline soil

[D] Normal soil

5. The vertical section of soil, which shows different horizons, is called \_\_\_\_\_.

[A] Soil horizon

[C] Soil pedon

[B] Soil profile

[D] None of these

6. Which of the following is a micro nutrient?

[A] Calcium

[C] Phosphorus

[B] Nitrogen

[D] Zinc

7. Deforestation has an alarming affect on \_\_\_\_\_.

[A] Weed control

[C] Insect pest control

[B] Soil erosion

[D] None of these

8. The particle size of clay soil is \_\_\_\_\_.

[A] 0.2-2.0mm

[C] 0.02-0.002mm

[B] 0.02-0.2mm

[D] less than 0.002mm

9. Urea belongs to which group?

[A] Amide

[C] Nitrate

[B] Alcohol

[D] None of these

10. Muriate of potash contain \_\_\_\_\_.

[A] 50 % K<sub>2</sub>O

[C] 60% K<sub>2</sub>O

[B] 40 % K<sub>2</sub>O

[D] 75% K<sub>2</sub>O

**[P.T.O.]**

**Q.2 Answer any 4 questions. Each question carries 5 marks (5\*4=20 Marks)**

1. Write down the soil profile with labelled diagram.
2. Write down soil water.
3. Write down in detail soil structure.
4. Write down in detail component of soil.
5. Write down the effect of acid soil on plant growth with their reclamation.

**Q.3 Answer any 1 question. The question carries 10 marks. (1\*10=10 Marks)**

1. Explain physical properties of soil (soil texture, soil density, soil porosity, soil colour, soil pH).
2. Write down acid soil in detail.