

Pramukh Swami Science and H.D.Patel Arts College, Kadi

CC-Agriculture and Soil Sciences

Internal Examination Semester I

Subject: AS 104

Time: 2 hrs

Date: 27/11/2014

Marks: 40

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**Q.1 Answer all questions. (10 Marks)**

1. The term "Drip Irrigation" was coined by:-
  - a. Simcha Blass
  - b. Simcha Bous
  - c. Simon Hill
  - d. G. N. Agarious
2. The attraction of water molecules with solid particle known as.....
3. Define the term Irrigation
4. In which type of soil the infiltration rate of water is very low?
5. West Bengal has highest irrigated area. (True/False)
6. Present DG of ICAR
  - a. Dr. S. Ayyapan
  - b. Mr. C. P. Joshi
  - c. Dr. A. S. Ahluvalia
  - d. Mr. Agatha Sangama
7. The downward movement of water with minerals and nutrients known as.....
8. Define the term Scheduling Irrigation
9. Gujarat rank first in irrigation by canal. (True/False)
10. Give the formula to calculate the irrigation efficiency ?

**Q. 2 Answer any four questions. (20 Marks)**

1. Enlist the objectives of irrigation.

2. Give the water requirements for the following crops
  - a) Wheat
  - b) Rice
  - c) Sugarcane
  - d) Bajara
3. List out any four objectives of drainage
4. Which are the demerits of flooding system?
5. Enlist the approaches for scheduling irrigation

**Q.3 Answer any one question. (10 Marks)**

1. Describe in brief about different methods of irrigation
2. Mentions your views about irrigation developments in Gujarat.