

**BA / B.Sc. GEOGRAPHY
FIRST SEMESTER
HYDROLOGY & SOIL STUDIES
BGE – 102 IDMn
[USE OMR FOR OBJECTIVE PART]**

**SET
A**

Duration: 1.30 hrs.

Full Marks: 35

Time: 15 min.

(Objective)

Marks: 10

Choose the correct answer from the following:

1X10=10

1. The science which deals with occurrence, distribution and circulation of water is called_____.
 - a. Hydrography
 - b. Hydrometry
 - c. Hydrology
 - d. hydraulics
2. The word hydrology is derived from_____.
 - a. Greek
 - b. Roman
 - c. France
 - d. Arabic
3. IMD is the abbreviation for-
 - a. Indian Mineral Deposit
 - b. Indian Meteorological Department
 - c. International Monetary Debt
 - d. Indian Mining Department
4. The evaporation through plants and from the surrounding soil together is called
 - a. Hydration
 - b. Vapourisation
 - c. Transpiration
 - d. Evapotranspiration
5. Direct runoff is the sum of-
 - a. The surface runoff and the base flow
 - b. The base flow and groundwater runoff
 - c. The delayed subsurface runoff
 - d. The surface runoff and the prompt subsurface runoff
6. Which horizon is known as top soil?
 - a. Horizon C
 - b. Horizon A
 - c. Horizon B
 - d. Horizon D
7. Soil formed by intense leaching is:
 - a. alluvial soil
 - b. red soil
 - c. laterite soil
 - d. desert soil
8. Black soil is deficient in
 - a. Calcium carbonate
 - b. Magnesium
 - c. Potash
 - d. Phosphoric contents

9. Laterite soil is very useful for growing
- a. Rice, wheat and mustard
 - b. Tea, coffee and cashewnut
 - c. Pulses, sugarcane and resin
 - d. None of the above
10. Which of the following methods does not help in soil conservation?
- a. Contour ploughing
 - b. Strip cropping
 - c. Creating shelter belts
 - d. Ploughing up and down the slopes

(Descriptive)

Time : 1 hr. 15 min.

Marks : 25

[Answer question no.1 & any two (2) from the rest]

1. Write a note on factors responsible for precipitation. 5

2. What is hydrological cycle? Discuss the importance of hydrological cycle. 3+7=10

3. What is surface runoff? Describe the factors affecting runoff. 2+8=10

4. Write Short Notes 5+5=10
 - a. Utilisation of Soil resource
 - b. Problems and Management of Soil Resource.

5. What do you mean by Soil as a Resource? What are the various types of soil? Briefly discuss about their types with their distribution? 3+3+4
=10

== *** ==