

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE

B.Sc.(Hons.) Agriculture Summer 2017 - 18 Examination

Semester: 2

Date: 19/05/2018

Subject Code: 20103151

Time: 10:30am to 1:00pm

Subject Name: Soil and Water Conservation Engineering

Total Marks: 60

Instructions

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Do as Directed.**A. Fill in the blanks. (Each of 1.00 marks)****(10)**

1. Natural movement of soil from place to another place due to agents like wind and water is called _____.
2. In contouring the increase in values are represented by symbol _____.
3. _____ catchment and _____ catchment are the types of water harvesting systems.
4. In measurement of Soil erosion experiments are classified as _____ & _____.
5. _____ and _____ are the conservation centers in India.
6. Sheet Erosion is also known as _____.
7. Large form of Rill Erosion is known as _____.
8. Points of Equal Elevation is known as _____.
9. _____ & _____ are the types of Water Harvesting Systems.
10. In one year two or more crops cultivation is known as _____ cropping pattern.

B. Multiple choice type questions. (Each of 1.00 mark)**(10)**

1. In India aboutmillion hectare lands are affected by erosion.

a)51	c)61
b)71	d)81
2. splash erosion is also known as erosion.

a)Light	c)Impact
b)Runoff	d)Raindrop
3. In splash erosion soil may be splashed into the air up to a height ofcm

a)50cm to 75cm	c)75cm to 100cm
b)150cm to 200cm	d)all the above
4. Life or durability of Grassed waterways depend on _____.

a)slope	c)velocity
b)vegetation	d)all the above
5. The increase or decrease of elevation in contours are represented by symbol.

a) + and -	c)+ and x
b)- and x	d)all the above
6. Which soil erosion centre is located in Gujarat?

a)Kota	c)Vasad
b)Valsad	d)Baroda
7. At what velocity of wind the wind erosion occurs?

a)19kmph	c)26kmph
b)56kmph	d)09kmph
8. Which of these are the Agents of Erosion

a)Water	c)Wind
b)Glacier	d)All the above

9. The contours are used in _____ sectors all over the world?
a)Navy
b)Civil Engineers
c)Military
d)All the above
10. Which is the 1st stage of water erosion?
a)Splash
b)Gully
c)Rill
d)Sheet

Q.2 Do as Directed.

A. Define the following. (Any five)

(05)

1. Write down factors affecting soil erosion.
2. What are erosion agents?
3. Define accelerated erosion.
4. Define contouring.
5. State water harvesting.
6. Describe grassed water ways.
7. Describe irrigation.

B. Answer the following. (Any Five)

(05)

1. Define water harvesting.
2. Enlist Mulching Material.
3. Enlist Erosion Stages.
4. Define Erosion.
5. Define stream bank erosion.
6. Define Bench Terracing.
7. Define Gully Erosion.

Q.3 Write short notes. (Any five)

(15)

1. Enlist erosion control centre's in India.
2. Write down advantages of Irrigation.
3. Define Contouring and its advantages.
4. Enlist any six soil conservation regions in India.
5. Short note on Grassed Waterway.
6. Write down disadvantages in Irrigation.

Q.4 Attempt any Three/Long Questions/Example

(15)

1. Write short note on splash erosion.
2. Write features of contouring.
3. Write about Rill Erosion in detail.
4. Write down structure of water harvesting system.