

**PARUL UNIVERSITY**  
**COLLEGE OF AGRICULTURE**

**B.Sc. (Hons.) Agriculture Summer 2018 – 19 Examination**

Semester: 2

Date: 03/04/2019

Subject Code: 20103151

Time: 2:00 PM to 4:30 PM

Subject Name: Soil and Water Conservation Engineering

Total Marks: 50

**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 0.5 marks)****(05)**

1. In one year two or more crops cultivation is known as \_\_\_\_\_ cropping pattern.
2. \_\_\_\_\_ is an effective method of soil conservation in hilly area.
3. Rotation of crop is essential for \_\_\_\_\_.
4. Erosion of very fine particles is seen on account of \_\_\_\_\_.
5. Large form of Rill Erosion is known as \_\_\_\_\_.
6. \_\_\_\_\_ and \_\_\_\_\_ are the conservation centres in India.
7. If there is a little slope in the field, the soil erosion can be prevented by \_\_\_\_\_.
8. Sheet erosion is also known as \_\_\_\_\_.
9. Points of equal elevation is known as \_\_\_\_\_.
10. Contour bunding is done to check \_\_\_\_\_ erosion.

**B. Multiple choice type questions. (Each of 0.5 marks)****(10)**

1. The factors affecting soil erosions are \_\_\_\_\_.
 

a). Climatic Factor	c). Topographical Factor
b). Temperature	d). All above said
2. Rill erosion of soil is occurred due to \_\_\_\_\_.
 

a). Surface runoff	c). Sub-surface runoff
b). Higher Wind Velocity	d). Rainfall
3. Evenly spaced contours indicate an area of \_\_\_\_\_.
 

a). Equal slope	c). Uniform slope
b). Steady slope	d). Variable slope
4. Splash erosion is also known as \_\_\_\_\_ erosion .
 

a). Light	c). Impact
b). Runoff	d). Raindrop
5. \_\_\_\_\_ material is used for mulching to reduce soil erosion.
 

a). Cut grasses or foliage	c). Plastics
b). Straw materials	d). All of above
6. In splash erosion soil may be splashed into the air up to a height of \_\_\_\_\_ cm.
 

a). 50 cm to 75 cm	c). 75cm to 100cm
b). 150 cm to 200cm	d). all the above
7. \_\_\_\_\_ is a non-pesticidal method of controlling soilborne pests by placing plastic sheets on moist soil during periods of high ambient temperature.
 

a). poly house	c). Green house
b). Soil solarization	d). Straw burning
8. Life of durability of Grassed Waterways depend on \_\_\_\_\_.
 

a). slope	c). velocity
b). Vegetation	d). All the above



3. Enlist different types of water erosion.
4. State different practices of water harvesting.
5. Define Gully Erosion.
6. Define Soil Erosion.
7. Define stream bank erosion.

**Q.3 Write short notes. (Any five)**

**(10)**

1. State the advantages of modern irrigation methods.
2. State the different Agronomical Practices to control erosion of soil.
3. State the advantages of earthen bunds to reduce the soil erosion.
4. Enlist any six Soil Conservation Centres located in India.
5. State the benefits of vegetated waterways.
6. Define contour farming and its advantages in soil erosion.

**Q.4 Attempt any Three/Long Questions/Example**

**(15)**

1. Define terrace and explain different types of terraces use to control soil erosion.
2. State reclamation and explain reclamation measures.
3. Explain various practices adopted by the farmers to control soil erosion.
4. State the classifications of different types of gullies in details.