Enrolment No:____

PARUL UNIVERSITY COLLEGE OF AGRICULTURE B.Sc. (Hons.) Agriculture Winter 2019 – 20 Examination

Semester: 2 Subject Code: 20103151 Subject Name: Soil and Water Conservation Engineerin	nter 2017 – 20 Examinat D Ig	Pate: 13/12/2019 Fime: 02:00 pm to 04:30 pm Fotal 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. Large form of Kin Erosion is known as				
2. In one year two or more crops cultivation is kn	nown as cropp	ing pattern		
3. Sheet erosion is also known as				
4 is an effective method of soil con	servation in hilly area.			
5. Rotation of crop is essential for				
6. Contour binding is done to check ero	sion.			
7. Erosion of very fine particles is seen on accou	nt of			
8. Points of Equal Elevation is known as				
9. If there is a little slope in the field, the soil ero	sion can be prevented by .			
10 and are the conser	vation centres in India			
B. Multiple choice type questions. (Each of 0.5 ma	rks)		(10)	
1 material is used for mulching to	reduce soil erosion			
a). Cut grasses or foliage	c). Plastics			
b). Straw materials	d). All of above			
2. The possible beneficial effect of the grazing a	animals is:			
a). Addition of their excreta to the soil	c). Eradication of we	eeds		
b). Removal of wild plants	d). Removal of wild a	animals		
3. Evenly spaced contours indicate an area of	•••••			
a). Equal slope	c). Uniform slope			
b). Steady slope	d). Variable slope			
4. Life of durability of Grassed Waterways dep	oend on			
a). slope	c). velocity			
b). Vegetation	d). All the above			
5. The factors affection on soil erosions are				
a). Climatic Factor	©. Topographical Fa	ctors		
b). Temperature	d). All above said			
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. Rill erosion of soil is occurred due to	
a). Surface runoff	c). Sub-surface runoff
b). Higher Wind Velocity	d). Rainfall
8. Splash erosion is also known as ero	osion
a). Light	c). Impact
b). Runoff	d). Raindrop
9. The volume of water that passes a point in the	he stream during a given amount
of time is called	c) Stream Discharge
a). Stream flow	d) Stream tide
10is a non-pesticidal method o placing plastic sheets on moist soil during pe temperature.	riods of high ambient
a) poly house	c) Green house
b) Soil solarization	d) Straw burning
11. All erosion is powered by a conversion of the	he potential energy of gravitation to other forms.
particularly energy.	
a). Kinetic energy	c). Mechanical energy
b). Steady-state energy	d). Tidal wave energy
12. Which soil erosion centre is located in Guja	urat ?
a). Dhasara	c). Vasad
b). Morabi	d). Dantiwada
13. Soil conservation can best achieve by having	ng
a). Wind screens	c). Restricted human activity
b). Good plant covers	d). Low rainfall
14. The Wind erosion occurs at what velocity o	f wind
a). 16 Km/h	c). 26 Km/h
b). 56 Km/h	d). 09 Km/h
15. Mechanics of soil erosion includes	
a). Detachment of soil particles	c). Deposition of soil particle
b). Transport of soil particle	d). All of above
16. Which is the 1 st stage of water erosion?	
a). Splash	c). Rill
b). Gully	d). Sheet
17. The rates of accelerated erosion is t	han geological erosion
a). Lower	c). More or less same
b). Higher	d). None of above
18 Froded soils are	
a). Rich in plant nutrients	c). Unaltered in plant nutrients
b). Devoid of plant nutrients	d). All of these
10 Soil conservation means:	
19. Son conservation means.	
a). Prevention of spread of desert	c) To check soil erosion by afforestation
b). To check soil erosion by wind and rains	d). All of these
20. Which of these are the Agents of Erosion	
a). Water	c). Wind
b). Glacier	d). All the above
Do as Directed.	
Define the following. (Any five)	
1. Define contouring	
2. Define Runoff	
3. Define Bench Terracing practices in soil erosic	on

(05)

	4.	Write down factors affecting soil erosion	
	5.	Define accelerated erosion	
	6.	Describe grassed water ways	
	7.	Define Irrigation	
B	An	swer the following. (Any Five)	(05)
	1.	Enlist different types of water erosion	
	2.	State different practices of water harvesting	
	3.	Enlist Mulching practices use by the farmers	
	4.	Define rain water harvesting	
	5.	Define stream bank erosion	
	6.	Define Soil Erosion	
	7.	Define Gully Erosion	
Q.3	Wr	ite short notes. (Any five)	(10)
	1.	State the advantages of earthen bunds to reduce the soil erosion	
	2.	State the advantages of modern irrigation methods	
	3.	State the different Agronomical Practices to control erosion of soil	
	4.	Define contour farming and its advantages in soil erosion.	
	5.	Enlist any six Soil Conservation Centres located in India	
	6.	State the benefits of vegetated waterways	
Q.4	At	tempt any Three/Long Questions/Example	(15)
	1.	Explain various practices adopted by the farmers to control soil erosion	
	2.	Define terrace and explain different types of terraces use to control soil erosion	
	3.	Describe different types of Bench Terraces	
	4.	State the classifications of different types of gullies in details.	
	5.	State reclamation and explain reclamation measures	