



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – B.Sc.(Ag)-Hons-2022/B.Sc.(Ag)-Hons-2023 Course Name – Soil and Water Conservation Engineering Course Code - CC-BAG276(T) (Semester II)

Full Marks : 50 Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

- Choose the correct alternative from the following :
- (i) Infer the correct answer: which leads to soil erosion

a) wind

b) glacier

c) water

- d) All of these
- (ii) Show corect answer: The land becomes unfit for cultivation and is known as

a) Waste land

b) Black land

c) Bad land

- d) Desert land
- (iii) Infer the correct option: The father of agricultural Engineering in India
 - a) M.S. Swaminathan

b) Mason Vough

c) Dr. Norman Borlaug

- d) None of these
- (iv) Relate that causes of deforestation

a) Pollution

b) No floods

c) Soil erosion

- d) None of these
- (v) Relate the main causative factor for desertification?

a) Tourism

b) Overgrazing

c) Irrigated agriculture

- d) None of these
- (vi) Infer a one option that crops is the most effective in controlling soil erosion:

a) Maize

b) Cotton

c) Green gram

d) Pigeon pea

(vii) Infer the caused by of sheet erosion

a) Glacier

b) Heavy rains

c) Fast running rivers

d) None of these

(viii) Show the correct answer:Soil conservation means:

Group-B				
	c) Confour farming	d) All of these		
	be prevented by: a) Contour terracing	b) Contour strip cropping		
(xx)	a) Agrostology c) Growing grazing fields Demonstrate the correct amswer:If there is a li	b) Basin listing d) Animal husbandry ttle slope in the field, the soil erosion can		
(XIX	Show the correct answer: In dry farming initiall by:			
	a) Sterile soil is converted into fertile soil c) Soil erosion is allowed	d) Soil is protected against loss		
(xviii	i) Demonstrate the correct answer: Soil conservation	tion is the process where: b) Soil is aerated		
	a) Along rivers c) In water falls	b) At the sea shore d) In all these places		
(xvii	a) Gully ? Rill ? ravinec) Rill ? Gully ? Ravine) Infer the correct answer: Wave erosion is more	d) Ravine ? Rill ? Gully		
(xvi)	c) Overfelling and overgrazing Demonstrate the correct answer: The soil erosic manner:	d) All of these on on slopes proceeds in the following b) Rill ? Ravine ? Gully		
()	a) Excessive rains	b) Wind storms		
(xv)	a) 3,000 million tonsc) 3,00,00,000 million tonsShown one factor from the following which is the	b) 3,000,000 million tons d) 3,00,000 billion tons se main cause of accelerated decay		
(xiv)	Infer the amount of soil lost to the sea each yea	r due to rainfall from the following options		
	a) Rill erosion c) Sheet erosion	b) Gully erosion d) All of these		
(xiii)	c) Slip erosion Show one following options, a sloped land may l	oe initially kirup due to reduced rainfall		
	a) Stream bank erosion	b) Sheet erosiond) Gully erosion		
(xii)	a) Lichens c) Legumes Relate a specific prevent for which Bunds, dams	d) Grasses		
(xi)	 c) Afforestation Show the correct answer: If the top soil has been it: 	d) Goats and grazing animals eroded, we retire a land and grow over b) Blue-green algae		
(x)	Infer a answer that main indicator of soil erosion a) Ozone layer	b) Deforestation		
	a) Wind screens c) Good plant covers	b) Low rainfalld) Restricted human activity		
	c) To check soil erosion by wind and rains d) All of these Infer the the one option that Soil conservation can best achieved by having:			
	a) Prevention of spread of desert	b) To check soil erosion by afforestation		

(Short Answer Type Questions)

2.5 x 10=25

2.	Explain the soil erosion?	(2.5)
3.	Explain the Splash erosion?	(2.5)
4.	Explain the sheet erosion?	(2.5)
5.	Briefly explain the Rill erosion	(2.5)
6.	Write classification of gully based on the shape?	(2.5)
7.	Briefly explain the water erosion?	(2.5)
8.	Classification of water erosion?	(2.5)
9	Classification of gully erosion based on the shape?	(2.5)
10	Briefly explain about the DDP	(2.5)
11	Elaborate the problems arising due to soil erosion	(2.5)
	OR	(=,
	Design the control measures for gully erosion	(2.5)
	Group-C	
	(Long Answer Type Questions)	5 x 1=5
12.	Explain the Importance Soil and Water Conservation Programmes implemented by Govt OR	(5)
	Explain the universal soil loss equation	(5)
