D	3	1	9	n	2
	U	4	v	v	-

(Pages 2)

Name	••	••	•

SECOND SEMESTER B.Sc. DEGREE (SUPPLEMENTARY) EXAMINATION, DECEMBER 2012

	CCS	Nume one ablotic component of an eal	H	
II Con	nplen	nentary	12-	-
BO 2C 02—PLANT PH	YSIC	LOGY AND ECOLOGY		
Time: Three Hours	postia	Maximum: 30	Weig	htage
		What are the bictle factors of an ecosys		
I. Objective type questions (include multiple	e choi	ce, fill in the blanks and answer in a sin	igle v	word)
Answer all twelve questions:	da?	What are the root medifications of Van	1,5	ě.
Choose the correct answer from the brack	et:	What is Ormosis?	ar	
1 Halophytes are:		What are antivenepleants?	17	
(a) Plants growing in saline soil.	(b)	Plants growing in water.	81	
(c) Plants growing in dry soil.	(d)	Plants growing in sandy soil.		
2 Damage of ozone layer caused by:		What is Photoperiodism?	20	
(a) CO ₂ .	(b)	What are the applications of ferm.co.	22	
(c) CFCs.		SO ₂ .		
3 Krebs' cycle occurs in :		rt essay or Paragraph questions. Answe	3110	111
(a) Nucleus.	(b)	Cytoplasm.	22	
(c) Golgi complex.	(d)	Mitochondria.	82	
4 Which one is a long day plant?		Describe the role of any one growth hos	24	
(a) Rice.	(b)	Cabbage.	35	
(c) Coffee.	(d)	Tobacco.		
Fill in the blanks:	Cysten	What are the edaphic fectors of an eco-	27	
5 Transpiration which takes place thro	ugh le	eaves is called ———.	28	
6 Circulation of protoplasm in cells is ca	alled -		-	-/-
7 The release of ammonia from the dea	ad rer	nains of plants and animal by bacteria	is c	alled
The analysis in the property to desi	dette	on any semident a manifoldation of profits		
8 The germination of seeds while the	fruits	are still attached to the mother plant	is c	alled
coaystem.	911, 00	Describe the structure and functions of		

EXAMINATION, DECEMBER

Answer in one word:

- 9 Diffusion.
- 10 Full form of GTP.
- 11 Name one abiotic component of an ecosystem.
- 12 Name of a wildlife sanctuary.

where $12 \times \frac{1}{4} = 3$ weightage)

Answer all familie questions :

L Stalophyras are:

(a) Nucleus.

(c) Coffee,

aximald adt hill?

Which one is a long day plant?

Choose the correct answer from the bracket: -

(a) Plants growing in saline soil.

(c) Plants growing in dry soil.

Damage of coons layer caused by

- II. Short answer questions. (Answer all nine questions):
 - 13 What are the biotic factors of an ecosystem?
 - 14 What is Primary succession?
 - 15 What are the root modifications of Vanda?
 - 16 What is Osmosis?
 - 17 What are antitranspirants?
 - 18 What is Emerson enhancement effect?
 - 19 What are phases of growth?
 - 20 What is Photoperiodism?
 - 21 What are the applications of fermentation?

 $(9 \times 1 = 9 \text{ weightage})$

- III. Short essay or Paragraph questions. Answer any five questions from seven:
 - 22 What are the techniques to break dormancy of seeds?
 - 23 Describe Glycolysis.

IDVO RIBI

- 24 Describe the role of any one growth hormone.
- 25 Pigment systems and their role in photosynthesis.
- 26 Transpiration pull theory of ascent of sap.
- 27 What are the edaphic factors of an ecosystem?
- 28 Discuss the anatomical adaptation of Hydrophytes.

 $(5 \times 2 = 10 \text{ weightage})$

- IV. Essay questions. Answer two questions from three:
 - 29 What is transpiration? Explain the mechanism of stomatal movement.
 - 30 With help of schematic sketches, describe the photophosporylations of photosynthesis.
 - 31 Describe the structure and functions of an ecosystem.

 $(2 \times 4 = 8 \text{ weightage})$