15U423	(gniwollot add (Pages:2) swanA) 3 to Name:
	Reg.No
FOURT	H SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2017
CC15II ROT	Experimental Cuches of auxiliary (Cuches) of the color of
ecise bo	Botany - Complementary Course (2015 Admission)
Time: Three Ho	urs all nialpx3 matevacco na to ananogmos Maximum: 64 Marks
	Part A (Answer all questions)  Draw diagrams only when specified algebras additional with the specified algebras and the specifie
1 <del>-</del>	s the connecting link between glycolysis and Kreb's cycle.
2. When a cell	is placed in hypertonic solution, it undergoes
3. Mendel's di	hybrid genotypic ratio is
<ol><li>Name the er</li></ol>	nzyme involved both in Calvin cycle and C <sub>2</sub> cycle.
5. Name the ph	29. Explain dark reaction in plant. In plant present in plant.
6. Name the pl	ant hormone acting as stress hormone.
7. The first sta	gene action. energy control of the product during C4 cycle is
8. In successio	n, the final & stable community isVandbag and Historial II
	dwarf plants get elongated, if sprayed with
10. The self pru	ning physiological process removing the aged organs from the plant body
is	
	$(10 \times 1 = 10 \text{ Marks})$
	Part B (Answer / explain any seven questions)
11. What is Em	erson enhancement effect?
12. What are Cl	imacteric fruits?
13. Differentiate	e between test cross and back cross.
14. Write a note	e on incomplete dominance.
15. What is plas	emolysis?
16. What is mea	ant by Kranz anatomy?
17. Describe the	e dual role of Rubisco.
18. Differentiate	e imbibition and osmosis.
19. What are an	ti-transpirants? Give an example.
20. Describe ph	otoperiodism.
	$(7 \times 2 = 14 \text{ Marks})$

## Part C (Answer any six of the following)

- 21. Explain ascent of sap.
- 22. Explain the effects of auxins in plant growth and development.
- 23. Write an account of electron transport chain and photophosphorylation.
- 24. Explain the mechanism of stomatal movements.
- 25. Name the biotic components of an ecosystem. Explain the role of each in the ecosystem.
- 26. With suitable example describe epistatic gene action.
- 27. Explain Hatch and Slack pathway of carbon fixation.
- 28. Explain xerophytic adaptations of plants. Also pinonegyd ni beoslig si lleo a nedW ... 2

 $(6 \times 4 = 24 \text{ Marks})$ 

## Part D (Any two of the following)

- 29. Explain dark reaction in C<sub>3</sub> plants.
- 30. What are complementary genes? With the help of an example explain complementary gene action.
- 31. Explain the pathway of complete aerobic oxidation of pyruvic acid.

( $2 \times 8 = 16 \times 10^{-1}$ ) ing physiological process removing the aged organs from the plant body

(10 x 1 = 10 Marks)

Part B (Answer / explain any seven questions)

11 What is Emercon enhancement effect

12. What are Climacteric fruits?

13. Differentiate between test cross and back cross

(4. Write a note on incomplete dominance

What is plasmolysis?

to. What is meant by Kranz anatomy

Describe the dual role of Rubisco

Differentiate imbibition and osmosis

19. What are anti-transpirants? Give an example

20. Describe photoperiodism.

(7 x 2 = 14 Marks)