## **Model Question Paper**

## Botony-Plant physiology - Part IV

12th Standard

	12tii Standard				
	Biology	Reg.No.:			
I	I.Answer all the questions.		 		_
	II.Use blue pen only.				
	III.Question Number 20 is compulsory.				
Tin	ne : 01:00:00 Hrs		Total	Marks:	
1\	Part-A			5 x 1 =	: 5
Ι)	In Kreb's cycle FADH <sub>2</sub> is produced during  (a) Sussinia acid. \ Furnaria acid. \ (b) Furnaria acid. \ Malia acid. \ (c) Sussinia acid. \ (d) Malia acid. \ (d) Malia acid. \ (d) Malia acid. \ (e) Sussinia acid. \ (e) Sussinia acid. \ (e) Sussinia acid. \ (e) Sussinia acid. \ (f) Malia acid. \ (h) Sussinia acid. \ (h) Sussi	atic acid			
۵۱	(a) Succinic acid → Fumaric acid (b) Fumaric acid → Malic acid (c) Succinyl co - A → Succinic acid (d) Malic acid → Oxaloace	aciu			
2)					
۵۱	(a) Glycolysis (b) Kreb's cycle (c) Oxidation of pyruvic acid (d) Citric acid cycle				
3)					
- \	(a) induces bud growth (b) enhances parthenocarpy (c) prevents abscission (d) causes closure of stomata				
4)					
	(a) Photoperiodism (b) Photosynthesis (c) Vernalization (d) Dark respiration				
5)					
	(a) RUBP (b) ATP (c) NAD (d) G3P				
	Part-B			6 x 3 =	18
6)					
7)	Define vernalization				
8)					
•	What is devernalization?				
	Write any two advantages of vernalization.				
TT)	What is glycolysis?			F . F .	25
12\	Part-C  Explain Kuhne's fermentation experiment with diagram.			5 x 5 = 1	25
	Write the classification of enzymes.				
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	Explain mechanism of enzyme action with graph.				
	Write short notes on site of photosynthesis.				
,	Part-D			4 x 10 =	40
17)	Write an account on cytokinin,ethylene and abscisic acid with their physiological effects.				
18)	Write an account on photoperiodism and vernalization.				
19)	Write an account on Dark reactions of photosynthesis (or) Explain Calvin's cycle. (explanation (or) flow chart)				
20)	Write an essay on C <sub>4</sub> path way (or) Describe Hatch-Slack path way of CO <sub>2</sub> fixation.				
21)	Describe theories explaining the mechanism of enzyme action.				

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