







CAR. I	Tanta UNIVERSITY, Faculty of Science, Department of Botany Final Examination for (First Year) Students of Biology					
1004		COURSE TITI General Botan	COURSE CODE:BO1202	NA UNIVERS		
DATE: 7 JUNE, 2016		TERM: FIRST SEMESTER	TOTAL ASSESSMENT MARKS: 150	TIME ALLOWED: 2HOURS		

		FIRST SEMESTER	MARKS: 150	2HOURS		
		I – Plant Phys	iology (75 marks)			
A) A	nswer the following q	uestions. (60 ma	rks)			
1.	Explain how the thermal	properties of water	result from hydrogen bo	onding. (20 marks)		
2.	Illustrate how buffer solu	utions resist the char	ige in pH in the enzyma	tic reactions. (20 ma	rks)	
3.	Explain the mechanism	of light reaction in p	hotosynthesis. (20 mark	s)		
B) C	omplete the following	sentences. (15)	marks, 1.5 each)			
1.	Diffusion in solutions ca	n be effective withir	ı dim	ensions.		
2.		and osmosis a	are means of water trans	location through the	plant	body.
3.	Water potential can be de	efined as				
4.	DOTE A SECOND					
	enzyme and substrate, le					
5.	The reduction of CO <sub>2</sub> to			n of and .		
15.0	produced in the light read					
6.	<b>—</b>		ndant representing up to	of the tot	tal sol	luble
	protein of most leaves.	readisco is very aca.	and the second s			
7.	The reactions in	are reductive. w	hile the reactions in rest	oiration are		
	serves as the				ons.	
	The cycle	17				
	molecules are th					
		II – Plant Syst	ematic (75 Marks)			
_A. Tr	ue or false and correct t					
	Bacterial Cysts are weak I		hibit higher resistance to	rradiation	(	)
	All viruses are obligate p				(	)
3.	cyanobacterial akinate is		ction		(	)
4.	Albugo has haplobiontic		amela comatos en the co	ma thallus	(	)
-	Homothallic organisms h Peziza is parasitic fungi	ave both male and fo	emale gametes on the sa	ine manus	(	)
6. 7.	In Bryophyta, the spore g	rive rise to protonem	a which is developed it	nto the sporophyte	(	)
8.	Viruses are a cellular pro		u, which is developed if	no me sporopnyte	(	Ś
9.	Pinus has a well-develope		ke flowering plant		(	)
	Phycoerthrin is the main		#### - [1] - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	or	(	)
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<b>B</b>	Coj 1. 2. 3. 3. 4. 4. 5. 6. 7. 7. 9.	B. Complete the following: (17 Marks)  1. The partial veil of pilus of Agaricus called
.0	9. 10.	Myxomycota tungi have some animal characters like
	:-	n't form ascocarp
	2.	(a) penicillum (b) aspirgillus (c) a and b (d) yeastis the winter infected spore of puccinia on wheat
		a) Uridiospore (b) teleiospore (c) aeciospore (d) Pycniospre
	, i	(a) Peziza (b) Puccina (c) Agaricus (d) b and c
	n :	(a) Wide host range (b) Moderate host range (c) Narrow Moderate host range (d) specific host range
		(a) Albugo (b) Rhizopus (c) Agaricus (d) a and b
	6.	Pretonima stage of Funaria haschromosomal number  (a) Haploid  (b) diploid  (c) triploid  (d) not specific
	.8 .7	(a) Isogametes (b) Anisogametes (c) Oogametes (d) Oogamy Which of the following techniques used for commercial vaccine production?  (a) Animal Inoculation (b) Chick-Embryo Cultures (c) Tissue Culture (d) Bacterial Cultures
D.	> - ¥	<ul> <li>D. Write in brief with drawings if possible: (5 Marks each)</li> <li>Virus and virion.</li> <li>Virus and virion.</li> <li>Different branches and leaves of <i>Pinus</i>.</li> </ul>
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EX	amı	Examiners: Best wishes

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