## F. Y. B. SC. (BIOTECHNOLOGY) SEM – II (CBCS - 2015 COURSE): WINTER - 2017

**SUBJECT: BIOCHEMISTRY-I** 

Day Date	:	Saturday <b>W-20</b>	17-0936	Time Max.Ma	10.00 AM TO 01.00 PM arks.60
N.B.	1) 2) 3) 4) 5)	Q.No.1 and Q.No.5 are COMPULSORY.  Answer ANY TWO questions from Q. No. 2, 3, and 4 in section- I  Answer ANY TWO questions from Q. No. 6, 7, and 8 in section- II  Answer the questions of section-I and section- II in SEPARATE answer books.  Figures to the right indicate Full marks			
SECTION-I					
Q.1	a) b) c) d) e) f)	Attempt <b>ANY FIVE</b> of the following: What are phosphoproteins? What are pyrimidines? Draw their struct Enlist the types of Vitamins B. Explain about 'Na' ion and give its election Name different types of electrophoresis. What are the various bonds involved in protein.	etronic configuration. techniques.	iary struc	(10)
Q.2	a) b)	Answer the following: What are biocatalyst? Explain with suit Explain in detail structure of DNA mol-			(10)
Q.3	a) b)	Explain the following: Explain different types of RNA, their st Explain classification of amino acid on		R groups	<b>(10)</b> S.
Q.4	a) b)	Write short notes on following: Structural organization in protein molec Chromo- proteins and phosphoproteins			(10)
SECTION-II					
Q.5	a) b)	Attempt the following questions: Explain estimation of purity of water by Describe the denaturation and renaturat			(10)
Q.6	a) b)	Answer the following: Explain the principle and applications of What are vitamins? Describe role of vit		natograph	<b>(10)</b> y.
Q.7	a) b)	Answer the following: Discuss the ultracentrifugation method Explain in detail about 'Mg' and 'Fe' id its significance.			(10) on and
Q.8	a) b)	Answer in brief: Explain the structure and function of N. Describe the Kjeldahl's method of Nitro			(10)

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