(BIC20112)		UNIT III	
M.Sc. DEGREE EXAMINATION, APRIL 2019.	õ.	Write an account on plant hormones.	(14
Second Semester		Or	
Biochemistry	0	( ) ( )	
Paper I — PLANT BIOCHEMISTRY	6.	(a) Seed germination and dormancy.	(7)
(Regulation 2012)	kvrssgroup.	(b) Factors effecting seed germination.	(7)
Time: Three hours Maximum: 70 man	eks (R) S	UNIT IV	
Answer FIVE questions, ONE from each Unit.	7.	Describe the nature, distribution, biosynt functions of Lectins.	thesis and
UNITI		Or Or	,
1. Write an account on evopotranspiration.  Or	8.	(a) Criteria of stress tolerance	(7)
2. (a) Vacuoles.	(7)	(b) Water and heat stress.	(7)
(b) Absorption and adsorption.	(7)	UNIT V	
UNITII	9.	Write an account on legume- R symbiosis.	Rhizobium (14)
3. Describe the coupling between electron transportant and generation of NADPH & ATP.	ort (1)	Or	
Or WWW.	nbidbpau <sup>lg</sup> .d	(a) Leghaemoglobin.	(7)
4. (a) Carotenoids and Phycobilins.	(7)	(b) Nitrate reductase.	(7)
(b) Photorespiration.	(7)		

(B1C20212)			ONII III	
M.Sc. DEGREE EXAMINATION, API Second Semester	RIL 2019.	5.	Write an account on biosynthesis and de of Glycine.	gradation (14)
Biochemistry			Or	
Paper II — INTERMEDIARY META	BOLISM	6.	(a) Histidine.	(7)
(Regulation 2012)	www.kvrssgr	oup.	(b) Methionine.	(7)
Time : Three hours Maximu	um: 70 marks	5	UNIT IV	(17
Answer FIVE Questions choosing ONE from	om each Unit.	7.	Describe the Oxidation of fatty acids.	(14)
UNITI	۵,		Or Or	, ,
1. Explain glycolysis and its regulation.	(14)	8.	(a) Metabolism of ketone bodies.	(7)
Or			(b) Leucotriens.	(7)
2. (a) Biogenesis of amino sugars.	(7)		UNIT V	
(b) •Glycoproteins.  UNIT II	(7)	9.	Write an account on biosynthesis and desof Purines and their regulation.	gradation (14)
3. Describe the metabolic reactions of an		1	Or	
	www <sup>(14)</sup> piqpba	10.	(a) Importance of biogenic enzymes.	(7)
Or			(b) Deoxyribonucleotides.	(7)
4. (a) Regulation of Urea cycle.	(7)			
(b) Formation of Creatine.	(7)			
			2 (BI	C20212)

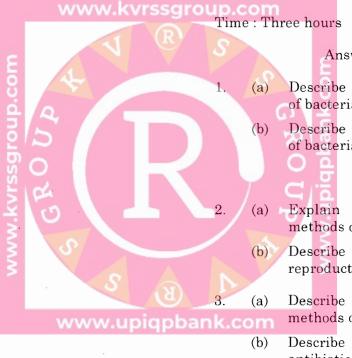
## (BIC20312)

M.Sc. DEGREE EXAMINATION, APRIL 2019.

Second Semester

Paper III — MICROBIAL BIOCHEMISTRY

(Regulation 2012)



Answer ALL questions.

Describe variant and invariant components of bacterial cell wall.

Maximum: 70 marks

(b) Describe the factors influencing the growth of bacteria.

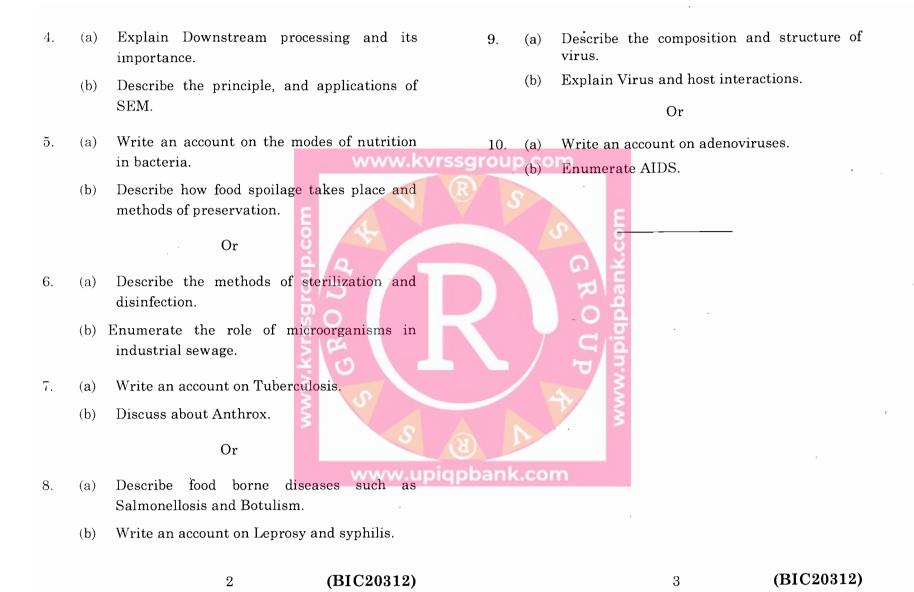
Or

- a) Explain the isolation and cultivation methods of bacteria.
- b) Describe the morphology and methods of reproduction in bacteria.

Describe the types of fermentation and methods of sterilization.

(b) Describe the fermentation production of antibiotics such as Penicillin.

Or



## 5. Describe the structure and functions (BIC20412) prokaryotic and eukaryotic Ribosomes. (14)M.Sc. DEGREE EXAMINATION, APRIL 2019. OrSecond Semester Concept of signal peptide. 6. (a) (7)Biochemistry Alternative protein transport mechanism. (7) Paper IV — MOLECULAR BIOLOGY Describe the post translation modifications of proteins. (14)(Regulation 2012) OrMaximum: 70 marks Time: Three hours Structures of tRNA and mRNA. 8. (7)Answer ALL questions. Operon concept. (7)Describe the enzymes involved in DNA replication. 9. Write an account on the types of mutations. (14)(14)OrOrRecombination and SOS repair. (a) 10. (7)(7)Inhibitors of DNA replication. Photoreactivation. (b) (7)DNA replication in Eukaryotes. (7)

(14)

(7)

(7)

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1.

2.

3.

4.

(a)

(b)

printing assays.

Describe the DNAse protection method and foot

Or

Polycistronic mRNA.

Inhibitors of transcription.