PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE B.Sc., Winter 2017-18 Examination

Enrollment No:_____

Semester: 5 Subject Code: 11102304 Subject Name: Biotechnology for Human Welfare	Date: 28/12/2017 Time: 02:00 pm to 04:30 pm Total Marks: 60	
Instructions:		
1 All questions are compulsory		
2 Figures to the right indicate full marks		
3 Make suitable assumptions wherever necessary		
4 Start new question on new page		
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O.1. A) Brief note (Each of 04 marks)		(08)
(a) Write a brief note on biofortification of crops		(00)
(h) Write a brief note on applications of genetically modified plants		
(0) while a orier note on applications of genericary modified plants. (1 B) Answer the following questions (Any two)		
(a) Brief note		(04)
1 Chloringted organic pollutant		(04)
2. non chloringted organic pollutant		
2. Itoli-citioi inated organic politicant (b) Short note production and emplications		(04)
(b) Short note production and applications		(04)
(c) Short hole on alcohol formation. (c) A proven the following exections		(04)
Q.2. A) Answer the following questions.		(0.4)
(a) Short note (Each of 02 marks)		(04)
2 Norma and the standard to be a second and the second standard to be a st		
2. Name any two ethanol producing organism.		(0, 1)
(b) Short note on antibiotic formation.		(04)
Q.2. B) Answer the following questions (Any two)		(0.0)
(a) Short note on degradation of agricultural wastes.		(03)
(b) Short note Effects of salt stress on plant physiology.		(03)
(c) Short note Effects of temperature stress on plant physiology.		(03)
Q.3. A) Brief note (Each of 04 marks)		(08)
(a) Gene therapy		
(b) Human genome project		
Q.3. B) Answer the following questions (Any two)		
(a) Short note on protein engineering.		(04)
(b) Short note on Recombinant live vaccines.		(04)
(c) Short note on Development of non-toxic therapeutic agents.		(04)
O.4. A) Answer the following questions.		
(a) Brief note (Each of 02 marks)		(04)
(i) Polyclonal antibody.		
(ii) HGPRT		
(b) Production of monoclonal antibodies		(04)
O.4. B) Answer the following questions (Any two)		(
(a) Short note on development of biodegradable polymers PHB.		(03)
(b) What are the application of DNA finger printing Solving violent or	mes such as murder and	(02)
rane	mes such as muruer and	(03)
(c) What are the application of DNA finger printing solving claims of the second se	aternity	(03)
(c) what are the appreation of DIVA inger printing solving claims of p	aternity.	(05)