APS(1-2015

M.Sc. Marine Sciences Semester – II Examination April -- 2015

Paper no: 5

Subject Code: 2929

Title/name of paper: Biochemistry, Genetics, Molecular biology and Biotechnology.

Time:	2.30 hrs Max. Marks: 70	
Q1,	Write detailed answers on: (A) Essential fatty acid (B) Functions of protein OR	14
Q1.	What are disachharides? Write a detailed account on biologically important disaccharides.	14
Q2.	What is linkage? Write a detailed account on linkage giving examples. OR	14
Q2.	Write as asked:(A) What is sex-linked inheritance? Descibe giving one example in humans.(B) Describe pleiotropism giving examples.	14
Q3.	Write an account on: (A) Messelson and Stahl experiment (B) Translation in prokaryotes	14
Q3.	Describe: (A) The structure of DNA (B) The process of formation of DNA from RNA by Reverse Transcriptase enzyme	14
Q4.	Explain: (A) The DNA sequencing method (ANY ONE) (B) Recombinant DNA technology	14
Q4.	Write a note on: (A) Ribozyme (B) Mutagens giving examples.	14
Q5.	Write a detailed account on ways of improving strains for aquaculture using Marine Biotechnology? OR	14
Q5.	Write an account on: (A) Biomass and Bioprocessing (B) Environmental remediation.	14