

W-3333**M.Sc. (Fourth Semester) Examination, June-2020****BIO-TECHNOLOGY****Paper - 401****Emerging Trends in Bio-technology***Time : Three Hours**Maximum Marks : 85**Minimum Pass Marks : 29***Note :** Attempt **all** questions.**Unit-I**

Q.1. Explain the types and applications of stem cells. 17

Unit-IIQ.2. Discuss the **any two** from the followings : 17
a) Metabolomics.
b) What is PMF?
c) Comparative genomics.**Unit-III**

Q.3. Explain the various applications of Nanobiotechnology for healthcare. 17

Unit-IV

Q.4. DNA microarray? Explain with suitable examples how genetic disease is diagnosed using at DNA microarray. 17

Unit-V

Q.5. Give a schematic representation of a typical fibre optic biosensor and describe its components. 17

