

2017**M.Sc. 2nd Semester Examination****MICROBIOLOGY****PAPER—MCB-205B****(Practical)***Full Marks : 30**Time : 5 Hours**The figures in the margin indicate full marks.**Candidates are required to give their answers in their own words as far as practicable.***Group-B***Answer all questions.*

1. Retrieve and save the nucleotide sequence of any microbial gene in FASTA format from NCBI and characterize it. 6
2. From the supplied data sheet draw an appropriate graph in MS-EXCEL with SE. 6
3. Retrieve annotated protein sequences of any three enzymes of bacteria/fungi/virus and show the region of maximum homology through multiple sequence alignment. 6
4. Viva-Voce. 4
5. Laboratory Note Book. 2
6. Internal Assessment. 6