

AE-780

M.Sc. (Previous)
Term End Examination, 2016-17

ZOOLOGY

Paper - IV

Molecular Cell Biology, Tools and Techniques for Biology

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 36

Note : Answer any **four** questions. All questions carry equal marks.

1. Write notes on the following :
 - (a) Integrins
 - (b) Collagens
2. Describe in detail the various mechanisms of transport across the membrane.
3. Describe in detail the process of translation across the polyribosomes.

(2)

4. Describe in detail the morphological and functional elements of eukaryotic chromosomes.
 5. Describe in detail the principle of light microscopy along with labelled diagram. Distinguish between light and electron microscope.
 6. Define Media. Describe in detail the various types of media that are used in microbial growth. Provide the composition of any two media.
 7. Describe in detail the principle and functioning of centrifuge.
 8. Define Serology. Explain, in detail, few serological reactions.
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