

Koyana Education Society's  
Balasaheb Desai College, Patan  
Department of Zoology  
Monthly Teaching Plan-Year-2023-2024  
August- 2023

Name of the Teacher-Mr.D.D.Thorat

| Dates               | Unit                                                  | Sub unit                                                                                  | Teaching Method Aids |
|---------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------|
| <b>B.Sc.-I</b>      |                                                       |                                                                                           |                      |
| 5/08/2023           | 2) Phylum Porifera                                    | 1. General characters                                                                     | Lecture              |
| 12/08/2023          |                                                       | 2. classification up to classes                                                           | Lecture              |
| 19/08/2023          |                                                       | 3. Canal System in Sycon                                                                  | Lecture              |
| 26/08/2023          | 3) Phylum-Cnidaria                                    | 1. General characters                                                                     | Lecture              |
| 27/08/2023<br>Extra |                                                       | 2. classification up to classes                                                           | Lecture              |
| 27/08/2023<br>Extra |                                                       | 3. Polymorphism in Hydrozoa                                                               | Lecture              |
| <b>B.Sc.-II</b>     |                                                       |                                                                                           |                      |
| 2-3/08/2023         | Unit I: Carbohydrate Metabolism                       | 5) Pentose Phosphate Pathway                                                              | Lecture              |
| 9-10/08/2023        |                                                       | 6) Gluconeogenesis                                                                        | Lecture-PPT          |
| 17-23/08/2023       |                                                       | 7) Glycogenesis                                                                           | Lecture-PPT          |
| 24-30/08/2023       |                                                       | 8) Glycogenolysis                                                                         | Lecture-PPT          |
| 31/08/2023          |                                                       | MCQ Questions                                                                             | Discussion           |
| <b>B.Sc.-III</b>    |                                                       |                                                                                           |                      |
|                     | Unit 2: Protein synthesis                             | A) Transcription                                                                          |                      |
| 1-3/08/2023         |                                                       | i) Process in prokaryotes and eukaryotes                                                  | Lecture              |
| 4/08/2023           |                                                       | ii) RNA polymerase                                                                        | Lecture              |
| 7/08/2023           |                                                       | iii) Post transcriptional modification in RNA                                             | Lecture              |
|                     |                                                       | B) Translation in prokaryotes and eukaryotes                                              |                      |
| 8-10/08/2023        |                                                       | i) Initiation                                                                             | Lecture              |
| 11/08/2023          |                                                       | ii) Elongation                                                                            | Lecture              |
| 14-17/08/2023       | Unit 3 : Molecular Techniques in Gene manipulation 15 | a) 1. Restriction enzymes: Nomenclature, detailed study of Type II.                       | Lecture              |
| 18 /08/2023         |                                                       | 2. Characteristics of Cloning vectors: Plasmids,                                          | Lecture              |
| 21/08/2023          |                                                       | Cosmids,                                                                                  | Lecture              |
| 22 /08/2023         |                                                       | Phagemids,                                                                                | Lecture              |
| 24-25/08/2023       |                                                       | Lambda Bacteriophages                                                                     | Lecture              |
| 28-29/08/2023       |                                                       | 3. Gene cloning: Transformation techniques by Calcium chloride method and electroporation | Lecture              |
| 31/08/2023          |                                                       | 4. Construction of genomic and cDNA libraries                                             | Lecture              |

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