

Subject: Biology 1st & 2nd Paper

First Term Exam

Total Working Days: 65

Periods: 51

Class test-1 (Working Days-26) periods- 21

First Paper : 1st Chapter - cell and its structure 11 periods

Second paper : 1st Chapter - Animal diversity and classification 10 periods

Class test-2 (Working Days-19) periods- 15

First Paper : 2nd Chapter - cell division 06 periods
Second paper : 2nd Chapter-2 : introduction to animal 09 periods

1st term exam (Working Days-20) periods- 15

First Paper : 3rd Chapter - cell chemistry 08 periods

Second Paper : 3rd Chapter - human physiology : digestion and absorption 07 periods

Marks distribution for first terminal Examination

Class test- 1 20 } 40 ÷ 2 = 20

Class test- 2 20 }

Class attendance = 05

1st term exam (theoretical) : Creative - 40 } = 75

MCQ- 35 }

Total = 100

Marks distribution for theoretical exam:

A) Creative questions – 40 marks.

Out of 6 questions any four have to write.

Each of the questions carries 10 marks

4 x 10 = 40

B) MCQ - 35 marks

35 questions are to give.

Each of the questions has equal value and carries 01

01 x 35 = 35

Total theoretical marks: 75

Annual Examination

Total Working Days: 67

Periods: 54

Class test- 3 (Working Days-17) periods- 14

First Paper : 5th Chapter - Algae and Fungi 06 periods

Second Paper : 5th Chapter - human physiology: Breathing and Respiration 08 periods

Class test- 4 (Working Days-29) periods- 23

First Paper : 4th Chapter - micro organisms 13 periods

Second Paper : 4th Chapter - human physiology: blood and blood circulation 10 periods

Annual Exam (Working Days-21) periods- 17

First Paper : 6th Chapter - Algae and Fungi

09 periods

Second Paper : Chapter - human physiology: waste and excretion 08 periods

Marks distribution for annual examination

Class test- 3	20	} 60÷3=20
Class test- 4	20	
Practical examination	20	
Class attendance=05		
Annual exam (theoretical) : Creative - 40		} =75
MCQ- 35		

Total = 100

Marks distribution for Practical exam:

1. Experiment (1)	=07
2. Identification	=03
3. Note book	=05
4. Viva	=05

Total=20

Marks distribution for theoretical exam:

A) Creative questions – 40 marks.

Out of 6 questions any four have to write.

Each of the questions carries 10 marks.

$$4 \times 10 = 40$$

B) MCQ - 35 marks

35 questions are to give.

Each of the questions has equal value and carries 01 marks

$$1 \times 35 = 35$$

Total = 75

Practical exam syllabus of 1st Paper

1. Observation of plant diversity.
2. Different stage of mitosis cell division.
3. Observation of Bacteria.
4. Identification of Malvaceae and poaceae family.
5. Observation of the transverse section of roots and shoots of monocotyledon plants.
6. To examine the importance of CO_2 in photo synthesis.
7. Examination of an aerobic respiration

Pre-Test Exam

Total Working Days: 49

Periods: 38

Class test- 5(Working Days-28) periods- 21

First Paper : 7th Chapter - gymnosperm and angiosperm plants 11 periods

Second Paper : 7th Chapter -human physiology: locomotion and body movement 10 Periods

Pre- test exam (Working Days-21) periods- 17

First Paper : 8th Chapter - tissue and tissue system 04 periods

9th Chapter -plants physiology 04 periods

Second Paper :8th Chapter - human physiology: coordination and control 05 periods

11th Chapter - Genetics and Evolution 04 periods

Marks distribution for pre-test examination

Class test- 5 20

Class attendance 05

Annual exam (theoretical) : Creative-40 } 75

MCQ- 35 }

Total =100

Marks distribution for theoretical exam:

A) Creative questions – 40 marks

Out of 6 questions any four have to write.

Each of the questions carries 10 marks.

4 x10= 40

B) MCQ - 35 marks

35 questions are to give.

Each of the questions has equal value and carries 01 marks 1x 35= 35

Total = 75

Test Examination

Total Working Days: 29

Periods: 23

Test exam (Working Days-29) periods- 23

Frist Paper : 10th Chapter - plant reproduction 03 periods

11th Chapter - Biotechnology 05 periods

12th Chapter - ecosystem and conservation 03 periods

Second Paper : 9th Chapter - continuation of human life 04 periods

10th Chapter -Immunity system of human body 04 periods

12th Chapter -animal behavior 04 periods

***** First paper and second paper questions will make separately on entire syllabus.**

Marks distribution for test examination

Practical	25
Annual exam (theoretical) : creative -40 } MCQ-35 }	=75

Total =100

Marks distribution for theoretical exam:

A) Creative questions – 40 marks.

Out of 6 questions any four have to write.

Each of the questions carries 10 marks.

$$4 \times 10 = 40$$

B) MCQ - 35 marks

35 questions are to give.

Each of the questions has equal value and carries 01 marks $01 \times 35 = 35$

Total = 75

**Marks distribution of practical exam of 2nd Paper

1. Dissection (Dissection and Presentation-6, figure-2)	=08
Identification(3×3)	=09
Viva Voice	=05
Note Book	=03

Total = 25

Second paper : Same as first paper.

Practical syllabus of 2nd Paper

1. Study of museum specimen
2. Study of permanent slide
3. Study of mouth parts of cockroach
4. Study of efferent branchial system (Rohu fish)
5. Study of Afferent branchial system (Rohu fish)
6. Study of operculum of fish
7. Study of air bladder of fish
8. Study of skeletal system of human.

List of reference biology books

Name of the book**Name of the author**

Biology 1st paper
Class 11-12

1. Prof. Dr. Md. Abul Hasan
2. Gazi Azmal *et al.*
3. Hafizur Rahman Mandal *et al*
4. Prof.Md. Nazim Uddin *et al*

Name of the book**Name of the author**

Biology 2nd paper
Class 11-12

1. Gazi Azmal and Asmat.
2. Md. Abdul Kaiyum and prof. Meghnad Saha
3. Dr. md. Abdul Alim
4. Prof.Md. Nazim uddin