

University of Mysore
Department of Studies in Genetics and Genomics
2019-20

Operational Guidelines for Flexible Choice Based Credit System (FCBCS)–Continuous Assessment Grading Pattern (CAGP) for M. Sc., Genetics
I & III semesters

1. Following are the guidelines set for individual components for theory papers 1.1, 1.2, 1.3, 1.5 and 1.6

| Paper Code and Title | Component | Evaluation Period | | Mode of Assessment | Weight- age (%) | Marks |
|--|-----------|--|--|--|-----------------|-------|
| Paper 1.1 – Transmission Genetics | C1 | 23 rd – 28 th Sept | | 15 Multiple Choice Questions | 15 | 15 |
| Paper 1.2 – Chromosome Genetics | | 30 th Sep Assignment Distribution | 04 th Oct Assignment submission | Take home assignment Hard copy submission | 05 | 05 |
| Paper 1.3 – Genes Structure and Function | C2 | 21 st - 26 th Oct | | Open book test | 20 | 20 |
| Paper 1.5 – Molecular Cytogenetics | C3 | 18 th – 22 nd Nov | | Short questions | 15 | 15 |
| | | 25 th Nov Assignment Distribution | 29 th Nov Assignment submission | Take home assignment Online submission | 05 | 05 |
| Paper 1.6 – Cell Biology | C4 | 16 th – 27 th -Dec | | MCQs (8) Short notes (3) Long descriptive questions (2) | 40 | 40 |

2. Following are the guidelines set for individual components for 1.4 (Tutorial paper)

| Paper Code and Title | Component | Evaluation Period | Mode of Assessment | Weight- age (%) | Marks |
|--|-----------|------------------------|---|-----------------|-------|
| Paper 1.4 – Scientific Presentation Skills | C1 | 26 th -Sept | 10 minute seminar on the topic of students choice using board | 20 | 20 |
| | C2 | 24 th -Oct | Group Discussion on the topic of students choice | 20 | 20 |
| | C3 | 21 st Nov | 20 Multiple Choice Questions | 20 | 20 |
| | C4 | 05 th Dec | 15 minute seminar on the topic of students choice using PPT | 40 | 40 |

| Paper Code and Title | Component | Evaluation Period | Mode of Assessment | Weight- age (%) | Marks |
|---|-----------|---|--|-----------------|-------|
| Paper 1.8 – Transmission and Chromosome Genetics | C1 | 30 th Sep, 01 st , 03 rd Oct | Viva | 05 | 05 |
| | | | Individual Practical Performance Evaluation (05), Practical Experiment Results Presentation (05) and Practical Records Evaluation (05) | 15 | 15 |
| | C2 | 05 th , 06 th , 07 th Nov | Viva | 05 | 05 |
| | | | Individual Practical Performance Evaluation (05), Practical Experiment Results Presentation (05) and Practical Records Evaluation (05) | 15 | 15 |
| | C3 | 03 rd , 04 th , 05 th Dec | Viva | 05 | 05 |
| | | | Individual Practical Performance Evaluation (05), Practical Experiment Results Presentation (05) and Practical Records Evaluation (05) | 15 | 15 |
| | C4 | 9 th , 10 th Dec | Viva | 05 | 05 |
| | | | One major one minor experiment and spotting | 35 | 35 |

3. Following are the guidelines set for individual components for practical papers

| Paper Code and Title | Component | Evaluation Period | Mode of Assessment | Weight- age (%) | Marks |
|---|-----------|--|--|-----------------|-------|
| Paper 1.9 – Cellular and Molecular Genetics | C1 | 30 th Sept, 01 st , 03 rd Oct | Viva | 05 | 05 |
| | | | Individual Practical Performance Evaluation (05), Practical Experiment Results Presentation (05) and Practical Records Evaluation (05) | 15 | 15 |
| | C2 | 04 th , 05 th , 07 th Nov | Viva | 05 | 05 |
| | | | Individual Practical Performance Evaluation (05) and Practical Experiment Results Presentation (05) Practical Records Evaluation (05) | 15 | 15 |
| | C3 | 02 nd , 03 rd , 05 th Dec | Viva | 05 | 05 |
| | | | Individual Practical Performance Evaluation (05), Practical Experiment Results Presentation (05) and Practical Records Evaluation (05) | 15 | 15 |
| | C4 | 09 th , 10 th Dec | Viva | 05 | 05 |
| | | | One major and one minor experiment, report evaluation and spotting | 35 | 35 |

III Semester

1. Following are the guidelines set for individual components for theory papers 3.1, 3.2, 3.4 and 3.5

| Paper Code and Title | Component | Evaluation Period | Mode of Assessment | Weight- age (%) | Marks |
|--|-----------|--|--|--|-------|
| Paper 3.1 – Genetic Engineering | C1 | 19 th – 23 th Aug | 15 Multiple Choice Questions | 15 | 15 |
| | | 26 th Assignment Distribution | 30 th Assignment submission | Take home assignment Hard copy submission | 05 |
| Paper 3.2 – Genome Genetics | C2 | 23 rd - 27 th Sep | Open book test | 20 | 20 |
| Paper 3.4 – Biostatistics and Bioinformatics | C3 | 21 st – 25 th Oct | Short questions | 15 | 15 |
| | | 28 th Oct Assignment Distribution | 02 nd Nov Assignment submission | Take home assignment Online submission | 05 |
| Paper 3.5 – Immunology and Cancer Genetics | C4 | 11 th – 20 th Dec | MCQs (8) Short notes (3) Long descriptive questions (2) | 40 | 40 |

2. Following are the guidelines set for individual components for 3.3 (Minor Project)

| Paper Code and Title | Component | Evaluation Period | Mode of Assessment | Weight- age (%) | Marks |
|---------------------------|-----------|---|--|-----------------|-------|
| Paper 3.3 – Minor Project | C1 | 26 th -30 th Aug | 10min Presentation on Literature Survey | 20 | 20 |
| | C2 | 30 th -04 th Oct | 10 min Presentation on objection lacuna and method | 20 | 20 |
| | C3 | 04 th - 08 th Nov | 04 page of project proposal submission | 20 | 20 |
| | C4 | 06 th / 07 th Dec | 15 min Presentation 8-10 page project proposal submission | 40 | 40 |

3. Following are the guidelines set for individual components for practical papers- 3.8

| Paper Code and Title | Component | Evaluation Period | Mode of Assessment | Weight- age (%) | Marks |
|--|-----------|--|--|-----------------|-------|
| Paper 3.8 – Genetic Engineering and Genomics | C1 | 19 th , 21 st , 23 rd -Aug | Viva | 05 | 05 |
| | | | Individual Practical Performance Evaluation (05), Practical Experiment Results Presentation (05) and Practical Records Evaluation (05) | 15 | 15 |
| | C2 | 23 rd , 25 th , 27 th -Sept | Viva | 05 | 05 |
| | | | Individual Practical Performance Evaluation (05), Practical Experiment Results Presentation (05) and Practical Records Evaluation (05) | 15 | 15 |
| | C3 | 04 th , 06 th , 08 th Nov | Viva | 05 | 05 |
| | | | Individual Practical Performance Evaluation (05), Practical Experiment Results Presentation (05) and Practical Records Evaluation (05) | 15 | 15 |
| | C4 | 23 rd , 24 th -Dec | Viva | 05 | 05 |
| | | | One major one minor experiment and spotting | 35 | 35 |

Guidelines for Problem solving questions for C-1 to C-3

- 1). Problem solving questions will be given as part of the take home assignment or in class open book test for theory papers lecture hour or in tutorials for respective papers.
- 2). Same problem solving questions can be given to all students or separate questions from respective papers.
- 3). Problem solving questions can be either “take home” or “class-based” for respective papers.
- 4). Problem solving questions will be written.
- 5). Problem solving questions is applicable only theory papers.
- 6). Problem solving questions for C-1 to C-3 will be limited to a specific day of the test or week during which the student works on the take home assignment.

Guidelines for Assignments for C-1 and C-3

- 1). Assignments will be written.
- 2). Assignments are applicable for only theory papers.
- 3). Submission of written assignments is either hard or soft copy based.
- 4). Assignments for C-1 and C-3 shall be given to the student for one week and the student has to submit the assignment on the stipulated date.

Guidelines for Seminar presentation for C-1 to C-3

- 1). Seminars should be based on respective papers or on research papers of similar syllabus topics.
- 2). Seminars assignments can be group-based or individually delivered.
- 3). Seminars for C-1 to C-3 shall be continuous having single or multiple evaluations and need not be limited to a specific day or time.

Guidelines for Multiple Choice Questions (MCQs) test for C-1

- 1). Number of MCQs in a paper shall be 15 for C1.
- 2). No question in the MCQ format shall have “none of the above” as option.
- 3). MCQs for C-1 will be limited to a specific day and time.

Guidelines for Descriptive test for C-2

- 1). A descriptive test will include three questions.
- 2). Descriptive test will be a single entity.
- 3). Descriptive test for C-2 shall have a single evaluation and will be limited to a specific day and time.

Guidelines for Open book test

- 1). Open book test can be conducted on any day during specified lecture or tutorial hours.
- 2). Open book test is applicable for both theory and practical papers.

Guidelines for evaluation of Practical papers

For each of the C1, C2 and C3 components:

- 1). 5% out of the 20% is awarded for quality of execution of experiments. During each practical class, faculty will evaluate the results obtained by the student. A score will be awarded to the student on a scale of 1 to 10. At the end of the duration of the evaluation period for each component, the score obtained by each student will be totaled and scaled to 5%. (This is for both 1.8 and 1.9 practicals).
- 2). 5% out of 20% is awarded for Practical Experiment Results Presentation (This is only for 1.8 practical assessment). At the end of the duration of the evaluation period for each component, the score obtained by each student will be totaled and scaled to 5%
- 3). another 5% (for 1.8 paper) or 10% (for 1.9 paper) out of 20% is awarded for the quality writing in the Practical Record Book. In this case also, each experiment documented by the student in the book will be given a score on a scale of 1-10 or 1-5. At the end of the duration of the evaluation period for each component, the score obtained by each student will be totaled and scaled to 5% (for paper 1.8) or 10% (for 1.9. paper).
- 4). The final 5% of the grade will be awarded to the student on the basis of his or her performance in the VIVA conducted on the designated day for the particular component. Each student will be given a score on a scale of 1-5.

Guidelines for C4 examination

Scheme of Theory examinations for M.Sc. Genetics

Time: 2 Hours

Max. Marks: 40

I) Multiple Choice 9 Questions covering all the units

Any 8 questions can be selected to answer

1x8=8

II) Write Short notes on any THREE of the following 4x3=12

Six questions covering all the Units

III) Write descriptive answers on any TWO of the following 2x10=20

Three questions covering all the Units

Guidelines for C4 examination

Scheme of Practical examinations for M.Sc. Genetics

Time: 4 Hours

Max. Marks: 40

| | |
|--|--------|
| I) Major experiment | 20 |
| II) Minor experiment/ report evaluation | 09 |
| III) Identify/Comment on A to C Spotting | 2x3=06 |
| IV) Viva | 05 |

General Guidelines

- 1). C-1 to C-3 assessments can be a combination of minimum of any two entities involving assignments, Problem solving questions, Group discussion, Seminar presentation, MCQs, and Descriptive test.
- 2). C-1 to C-3 assessment format should be given by respective faculty one week before the assessment begins.
- 3). C-4 shall be a descriptive theory and practical exams, project report or seminar presentation and the format should be given by respective faculty one month before the assessment begins.
- 4). C-1 to C-3 assessments shall be for a total of 20% of total marks for respective papers.
- 5). C-4 assessment shall be for 40% for respective papers. It is a summative assessment. **The answer keys for the theory questions set by the concern faculty**

should be provided to the chairman prior to the evaluation by the concerned faculty to avoid ambiguity in grading. The Central valuation will be done in the Department immediately after the theory examinations. The staff secretary/ course coordinator will compile the marks in the ledger book of the department. The extract of this will be sent to the University to declare the result and print the marks cards.

Problem solving questions are those that are required to measure the student's ability to solve theoretical or numerical problems, interpret graphical or tabular data.

Assignments can be either written, or demonstration based for both theory and practical papers on a specific topic.

MCQs are Multiple Choice Questions that has four options but without the "none of the above".

Descriptive test are questions having lengthy answers, conducted on a continuous having single or multiple evaluations.

In case unavoidable circumstances prevent the conduction of tests, exams etc. on the above given dates, the same will be conducted on a newly scheduled appropriate date.
