

political science

BREAK UP OF INTERNAL ASSESSMENT MARKS

Tests	25 marks
Attendance	10 marks
Assignments	15 marks
<u>TOTAL</u>	<u>50 MARKS</u>


PRINCIPAL
GOVT. COLLEGE FOR WOMEN
KOLAR-563101.

**VI SEMESTER B.Sc., ZOOLOGY PRACTICAL
PAPER – VIII - ANIMAL PHYSIOLOGY AND
TECHNIQUES IN BIOLOGY**

- 15 Units**
08 Units
- I. Physiology Experiments:**
1. Qualitative analysis of Carbohydrates, Proteins and Lipids.
 2. Qualitative analysis of Nitrogenous wastes – Ammonia, Urea and Uric acid.
 3. Quantitative estimation of Oxygen consumption by fresh water Crab.
 4. Quantitative estimation of salt gain and salt loss by fresh water Crab.
 5. Detection of glucose, albumin and ketone bodies in urine.
 6. Qualitative analysis of digestive enzymes in human saliva.
 7. Estimation of muscle glycogen (Anthrocin method).
- 05 Units**
- II. Techniques in Biology:**
1. Paper Chromatography for separation of amino acids and proteins.
 2. Demonstration of Rocket electrophoresis technique for detection of specific antigens.
 3. Scientific drawing of microscopic specimens using a prism type Camera Lucida.
 4. Differential counting of blood cells using haemocytometer
 5. Micrometry of cell types
- III. Project report on:** Dialysis, Diabetes mellitus, Obesity, Cardio vascular diseases and Anaemia,
02Units

**SCHEME OF PRACTICAL EXAMINATION
VI SEMESTER B.Sc ZOOLOGY
PAPER –VIII - ANIMAL PHYSIOLOGY AND TECHNIQUES IN
BIOLOGY PRACTICAL-VIII**

Duration: 3 hrs.	Max.Marks : 35
01. Physiology Experiment	12 marks
02. Techniques in Biology	08 marks
03. Project Report submission	05 marks
04. Viva-voce (On Project submitted) (Minimum of 3 – 4 questions)	05 marks
05. Class Records	05 marks
Total	35 marks


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VI SEMESTER B.Sc., ZOOLOGY PRACTICAL
PAPER – VII - DEVELOPMENTAL BIOLOGY AND ORGANIC EVOLUTION

15 Units
09 units

I. Developmental Biology:

1. Early development of Frog: Cleavage, Blastula, Gastrula and Neurula.
2. Late development of Frog: Metamorphosis (Tadpole to young Frog)
3. Development of Chick: 18 hrs, 24 hrs, 36 hrs, 48 hrs and 72 hrs incubation stages
4. Mammals: T.S. of uterus and fallopian tube
5. Placenta: Morphological and histological types.

II. Organic evolution:

06 units

1. Study of Homologous organs:
 - a. Fore limb bones of terrestrial Vertebrates (Frog, Lizard, Bird, Rat or Rabbit or Human).
 - b. Mouth parts of Cockroach, House fly, Butterfly and Mosquito.
2. Study of Analogous organs:
 - a. Cephalopod Eye and Vertebrate eye.
 - b. Wing of Insect and Bird
3. Study of Vestigial organs: Appendix, Coccyx and Molar tooth.
4. Study of Connecting links: Peripatus and Tornaria larva.

SCHEME OF PRACTICAL EXAMINATION
VI SEMESTER B.Sc. ZOOLOGY
DEVELOPMENTAL BIOLOGY AND ORGANIC
EVOLUTION: PRACTICAL - VII

Duration: 3 hrs.

Max.Marks:35

01	Developmental Biology: Identify and comment on A, B, C and D with neat labelled diagrams. (Any one larval stage of Frog to be compulsorily included in the question)	16 marks (4x4)
02	Organic Evolution: Identify and comment on the evolutionary trends of E and F with neat labelled diagrams. (Note: From 1 and 2)	06 marks (3x2)
03	Organic Evolution: Identify and comment on 'G'. (Note: Any one from 3 and 4)	03 marks
04	Viva voce: Based on the questions of the practical examination (Minimum of 3 to 4 questions)	05 marks
05	Class Records	05 marks
Total		35 marks


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**V SEMESTER B.Sc., ZOOLOGY PRACTICAL - VI
PAPER - VI - GENETICS AND BIOTECHNOLOGY**

	15 Units
1. <i>Drosophila</i> Genetics:	04 Units
a. Sexual dimorphism and Mutant forms – Vestigial wing, White eye, Bar eye, Sepia eye, Yellow body and Ebony body.	
b. Mounting of Polytene chromosome (Salivary gland chromosome)	
c. Mounting of Sex comb and Genital plate.	
d. Genetic problems: Monohybrid cross, Dihybrid cross, multiple alleles, gene interaction	
e. Sex linkage (Construction of pedigree charts for colour blindness and haemophilia)	
2. Human Genetics:	04 Units
d. Blood typing	
e. Preparation of Buccal smear for sex chromatin	
f. Preparations of Blood smear for identification of cell types and comment on the types of leucocytes.	
3. Biotechnology:	03 Units
g. Staining and identification of Bacteria (Gram staining)	
h. Biochemical analysis to determine the interaction of bacteria with different substrates.	
i. Isolation of plasmid DNA	
4. Isolation of DNA from animal tissue.	01 Unit
5. Qualitative detection of acetic acid in Yeast culture (Student is required to prepare the culture)	01 Unit
6. Study of polyploidy in Onion root tip using Colchicine	01 Unit
7. Translocation in Rho.	01 Unit

**SCHEME OF PRACTICAL EXAMINATION
V SEMESTER B.Sc ZOOLOGY
GENETICS AND BIOTECHNOLOGY: PRACTICAL - VI**

Duration: 3 hrs.

Max.Marks: 35

01.	<i>Drosophila</i> Genetics:	05 marks
	a) Identify and comment on A and B with neat labelled diagram: (<i>Drosophila</i> male/female/mutants- any two)	(2 ⁽¹⁾ +2 ⁽²⁾)
	b) Mounting: Polytene Chromosome (Salivary Gland Chromosome) or Sex comb or Genital Plate.	07 marks
	or	
	Genetic problems (any two) (4+3 marks)	
02.	Human Genetics : from d to f (any one)	06 marks
03.	Biotechnology:	06 marks
	c) From g, h and i (any one)	06 marks
	d) From 5, 6, 7 and 8 (any one)	
04.	Class Records	05 marks
	Total	35 marks

22


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PHYSICS

GENERAL INSTRUCTIONS

1. You are requested to be present one hour before the commencement of the practical examination.
2. You and your co-examiner are in-charge of setting, preparation and conduct of Practical examination.
3. You are requested to check the formula circuit diagrams, expected graphs, electrical connections, arrangement of the apparatus, readings etc.
4. If any candidate requests for assistance at any stage, he/she may be assisted and proportionately marks may be deducted.
5. Examiners should also prepare invigilators diary in respect of the practical examination and ensure that the serial number of answer booklet issued to the students is indicated in the diary. The same diary must be used for additional booklets and the graph sheets.

Scheme of evaluation for I, III and V Semester B.Sc. Practical Examination (CBCS-effective from 2016-2017)

1. Writing principle/statement, formula and explanation of symbols with units
.....2+2+2=6 marks
 2. Diagram/circuit diagram and expected Graph
.....2+1=3 marks
 3. Tabular Columns + Setting up of the experiment + Taking readings & entering
.....10 marks
 4. Calculations (explicitly shown) + Graph
.....08 marks
 5. Accuracy of results with units
.....03 marks
 6. Class Records (to be valued at the time of practical examination)
.....05 marks
- Total marks for Practical Examination**35 marks

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MATHEMATICS

(Practicals of 35 marks)

4 questions to be given one from each unit as follows:

1. Matrices: 1 question with enough sub-questions that take 30 minutes to answer using the chosen FOSS tool.
2. Differential calculus and integral calculus: 2 questions with enough sub-questions that take 60 minutes to answer using the chosen FOSS tool.
3. Analytic geometry of three dimensions: 1 question with enough sub-questions that take 30 minutes to answer using the chosen FOSS tool.

Break-up of practical mark allotment (of 35 marks)

Practical Record	: 5 marks
Unit 1	: 5 marks
Unit 2	: 10 marks
Unit 3	: 5 marks
Question bank answers (spiral bound book with the answers in the candidates own handwriting)	: 5 marks
Viva	: 5 marks

Break-up of internal assessment marks for theory (of 30 marks)

Attendance	: 5 marks
Preparatory theory exam	: 25 marks

Break-up of internal assessment marks for practical (of 15 marks)

Preparatory practical exam	: 15 marks
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PRACTICAL PAPER – VII
CYTOLOGY, GENETICS, EVOLUTION AND PLANT BREEDING

		Total Units - 13
1.	Preparation of cytological stains - Aceto carmine & Aceto orcein.	1 Unit
2.	Mitosis from <i>Allium</i> root tips—Aceto orcein.	3Units
3.	Meiosis from <i>Allium</i> flower buds- Aceto carmine.	3Units
4.	Karyotype and Idiogram : Camera Lucida drawing.	1 Unit
5.	Permanent slides of Mitosis.	1Unit
6.	Permanent slides of Meiosis.	1 Unit
7.	Emasculation and bagging of the flower buds of available species.	1 Unit
8.	Genetic problems.	2Units
9.	Record and Submission- 6 Slides (3 Mitosis and 3 Meiosis.)	

PRACTICAL QUESTION PAPER- VII
CYTOLOGY, GENETICS, EVOLUTION AND PLANT BREEDING

Time: 3 hours

Max Marks: 35

1.	Prepare a temporary mitotic, slide from material A identify the stage with diagram.	6
2.	Prepare a temporary meiotic slide from material B identify the stage with diagram.	6
3.	Identify and comment on C along with a sketch (only Karyotype).	4
4.	Identify and comment on slides D and E with suitable sketches	3+3=6
5.	Solve the Genetic Problem F	5
6.	Record and Submission	5+3=8

Scheme of Valuation

1. Preparation- 4 marks, identification of stage - 1 mark and diagram 1 mark
2. Preparation - 4 marks, identification of stage - 1 mark and diagram 1 mark
3. Karyotype - slide or sketch, identification-1 mark, diagram- 1 mark, comment- 2 marks

4. Slides from meiosis and mitosis identification 0.5 mark, sketch 0.5 mark and comment 2 marks.
5. Genetic problems from
 - i. Dihybrid cross and test cross
 - ii. Incomplete dominance
 - iii. Complementary factors
 - iv. Supplementary factors
 - v. Epistasis - 5 marks
6.
 - i. Record - 5 marks
 - ii. 3 Mitotic and 3 Meiotic permanent slides $\frac{1}{2}$ mark each - 3 marks

REFERENCES

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2. Bruce Alberts, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts and Peter Walter 2007, **Molecular Biology of the Cell: 5 edition**. Garland Science, 1526 illustrations. Package with Media DVD.
3. Chaudhari, H.K. 1983. **Elementary Principles of Plant Breeding**, TMH publishers Co., New Delhi
4. De Robertis F.D.P. and De Robertis, E.M.FJr, 2002. **Cell and Molecular Biology**, USA cippoett,
5. Gardener E.J. and Sanstad D.P. 1984. **Principles of Genetics**, John wiley Publishing Co., New Delhi
6. Goodenough, U. 1990. **Genetics, 3 edn.**, Saunders College Publishers, New York.
7. Gupta p.k. 1994, **Genetics**, Rastogi publications, New Delhi.
8. Jain J, Sanjayjain, I and Nitin jain, 2005. **Fundamentals of Biochemistry**, S.Chand & company Pvt Ltd., New Delhi.
9. Jha, A. P. 1993. **Genes and Evolution**. Mac Millan India Ltd., New Delhi.
10. John Ringo. 2004. **Fundamental genetics**, India Cambridge univ., New Delhi
11. Mahesh S. 2008. **Plant Molecular Biotechnology**, New age Int. Publ, New Delhi.
12. Nelson D.I and Cox, M. M. 1996. **Principles of Biochemistry**. Macmillan worth Publications, New Delhi
13. Sadhu M.K. 1996. **Plant propagation**, New age international publishers, New Delhi.
14. Sharma, J.R. 1994. **Principles and Practice of Plant Breeding**, Tata McGraw-Hill Publishers, New Delhi
15. Shukla R.S. and P.S. Chandel, 2004. **Cytogenetics, Evolution and Plant Breeding** S.Chand and company Pvt Ltd., New Delhi

BANGALORE UNIVERSITY

Jnanapravartini, Bangalore - 560 056

STATEMENT OF PRACTICAL MARKS UG EXAMINATION NOV/DEC-2018



1763660

COURSE : B.Sc
PAPER NAME : MAT 3 MATHEMATICS - III
COMPONENT NAME : PRACTICAL
PAPER MIN : 12
COLLEGE CODE : KF

SEMESTER : 3
PAPER CODE : SM1P35
COMPONENT CODE : 3
PAPER MAX : 35



NOTE: THIS IS AN AUTO GENERATED OMR SHEET. PLEASE DO NOT WRITE ANY REGISTER NUMBERS MANUALLY.

REGISTER NUMBER	PRACTICAL MARKS		RECORD & SUB. MARKS	TOTAL MARKS INCLUDING PRACTICAL & SUB. MARKS	SHADE TOTAL MARKS INCLUDING PRACTICAL & RECORD SUB. MARKS IN OMR	SERIAL NUMBER OF THE ANSWER BOOK
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<input type="checkbox"/> 4	<input type="checkbox"/> 4
<input type="checkbox"/> 5	<input type="checkbox"/> 5
<input type="checkbox"/> 6	<input type="checkbox"/> 6
<input type="checkbox"/> 7	<input type="checkbox"/> 7
<input type="checkbox"/> 8	<input type="checkbox"/> 8
<input type="checkbox"/> 9	<input type="checkbox"/> 9

SHADE TOTAL MARKS INCLUDING PRACTICAL & RECORD SUB. MARKS IN OMR		
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<input type="checkbox"/> 7	<input type="checkbox"/> 7	<input type="checkbox"/> 7
<input type="checkbox"/> 8	<input type="checkbox"/> 8	<input type="checkbox"/> 8
<input type="checkbox"/> 9	<input type="checkbox"/> 9	<input type="checkbox"/> 9

NOTE :

N - Not offered

M - MaiPractice

A - Absent should be marked against Register Number



TOTAL SCRIPTS	
1	2
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<input type="checkbox"/> 4	<input type="checkbox"/> 4
<input type="checkbox"/> 5	<input type="checkbox"/> 5
<input type="checkbox"/> 6	<input type="checkbox"/> 6
<input type="checkbox"/> 7	<input type="checkbox"/> 7
<input type="checkbox"/> 8	<input type="checkbox"/> 8
<input type="checkbox"/> 9	<input type="checkbox"/> 9

NAME OF THE EXAMINER IN BLOCK LETTERS

SIGNATURE OF INTERNAL EXAMINER

SHIVARAJA S.M

Shivraj S.M

COLLEGE CODE
KF

VALUER CODE

NAME OF THE EXAMINER IN BLOCK LETTERS

SIGNATURE OF EXTERNAL EXAMINER

mala.k

mala.k

COLLEGE CODE
KE

VALUER CODE

CORRECTIONS SHOULD BE ATTESTED.

No. of corrections :

Scanned with CamScanner

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KOLAR-563101



BENGALURU NORTH UNIVERSITY

Sri Devraj Urs Extension, Tumakala, Kolar - 563103

Page 1/1

College : 6002 Govt. First Grade College for Women, Kolar

Degree : BSCI - Bachelor of Science, Exam : I Semester - NOV / DEC 2019

Subject : AP230 - Mathematics(Practical)

Practical / Record Marks List (Verified)

Batch No. : 01 Exam Date : 08/11/2019 Time : 10:00-1:00

Sl No.	Reg No	Practical	
		Mark	Remarks
1	S1910631	035	Zero Three Five
2	S1910632	031	Zero Three One
3	S1910633	032	Zero Three Two
4	S1910634	035	Zero Three Five
5	S1910635	035	Zero Three Five
6	S1910636	029	Zero Two Nine
7	S1910637	030	Zero Three Zero
8	S1910638	035	Zero Three Five
9	S1910639	032	Zero Three Two
10	S1910640	035	Zero Three Five
11	S1910641	028	Zero Two Eight
12	S1910642	035	Zero Three Five
13	S1910643	033	Zero Three Three
14	S1910644	031	Zero Three One
15	S1910645	032	Zero Three Two
16	S1910646	034	Zero Three Four

Examiner - 01
Name : SOWMYA.V.
College / Degrn : GICW - Kolar
Signature :
Date & Time : 10:00 to 1:00
8/11/19

Examiner - 02

Examiner - 03

Examiner - 04

SHANADA ANJUM.R
GFQC, KGF

8/11/19, 10-1pm

PRINCIPAL
GOVT. COLLEGE FOR WOMEN
KOLAR-563101.



UG EXAMINATION NOV/DEC-2019

1770752

COURSE : B.Sc
 PAPER NAME : BOTANY-V
 COMPONENT NAME : PRACTICAL
 PAPER MIN : 12
 COLLEGE CODE : KF

SEMESTER : 5
 PAPER CODE : SBIP51
 COMPONENT CODE : 3
 PAPER MAX : 35



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REGISTER NUMBER	PRACTICAL MARKS	RECORD & SUB. MARKS	TOTAL MARKS INCLUDING PRACTICAL & SUB. MARKS	SHADE TOTAL MARKS INCLUDING PRACTICAL & RECORD SUB. MARKS IN OMR	SERIAL NUMBER OF THE ANSWER BOOK
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17KFS85377	024	08	032		129597
17KFS85378	027	08	035		129598
17KFS85379	022	08	030		129599
17KFS85380	027	08	035		129600
17KFS85381	023	08	031		129601
17KFS85383	027	08	035		129602
17KFS85384	026	08	034		129603
17KFS85385	027	08	035		129604
17KFS85386	023	08	031		129605
17KFS85388	024	08	032		129606
17KFS85389	027	08	035		129607

NUMBER OF ABSENTEES	SHADE TOTAL MARKS INCLUDING PRACTICAL & RECORD SUB. MARKS IN OMR
00	397

NOTE:
 N - Not offered
 M - Malpractice
 A - Absent should be marked against Register Number



TOTAL SCRIPTS
12

Padma N
 H.O.D. of Botany
 Government College for Women
 KOLAR - 563 101

NAME OF THE EXAMINER IN BLOCK LETTERS PADMA N	SIGNATURE OF INTERNAL EXAMINER <i>Padma N</i>	COLLEGE CODE KF	VALUER CODE
NAME OF THE EXAMINER IN BLOCK LETTERS M.S.SREENIVASAN	SIGNATURE OF EXTERNAL EXAMINER <i>M.S.S.</i>	COLLEGE CODE KF	VALUER CODE

CORRECTIONS SHOULD BE ATTESTED:
 The Black 2B ball pen for writing

No. of corrections :

NIL

BANGALORE UNIVERSITY

Jnaná Bhārathi, Bangalore - 560 056

STATEMENT OF PRACTICAL MARKS

UG EXAMINATION NOV/DEC-2019



COURSE : B.Sc
 PAPER NAME : BOT5.2 BOTANY-V
 COMPONENT NAME : PRACTICAL
 PAPER MIN : 12
 COLLEGE CODE : KF

SEMESTER : 1770751
 PAPER CODE : SRP51
 COMPONENT CODE : 3
 PAPER MAX : 35



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REGISTER NUMBER	PRACTICAL MARKS	RECORD & SUB. MARKS	TOTAL MARKS INCLUDING PRACTICAL & SUB. MARKS	SHADE TOTAL MARKS INCLUDING PRACTICAL & RECORD SUB. MARKS IN OMR	SERIAL NUMBER OF THE ANSWER BOOK
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17KFS85391	024	08	032		129507
17KFS85392	026	08	034		129508
17KFS85394	023	08	031		129513
17KFS85395	021	08	029		129514
17KFS85396	024	08	032		129515 129525
17KFS85398	027	08	035		129531 129545
17KFS85399	027	08	035		129532 129544
17KFS85400	023	08	031		129533 129550
17KFS85401	026	08	034		129534 129551
17KFS85402	026	08	034		129535 129549
17KFS85403	027	08	035		129536 129547

NUMBER OF ABSENTEES

00

SHADE TOTAL MARKS INCLUDING PRACTICAL & RECORD SUB. MARKS IN OMR

393

NOTE:
 N - Not offered
 M - Malpractice
 A - Absent should be marked against Register Number



TOTAL SCRIPTS

12

Padma N
 - H.O.D. of Botany
 Government College for Women
 KOLAR - 563 101

NAME OF THE EXAMINER IN BLOCK LETTERS PADMA N	SIGNATURE OF INTERNAL EXAMINER <i>Padma N</i>	COLLEGE CODE KF	VALUER CODE
NAME OF THE EXAMINER IN BLOCK LETTERS M.S.SREENI VASAN	SIGNATURE OF EXTERNAL EXAMINER <i>M.S. Sreeni Vasana</i>	COLLEGE CODE KF	VALUER CODE

CORRECTIONS SHOULD BE ATTESTED
 Use Black Ball Point Pen for writing

No. of corrections : **NIL**

(Practicals of 35 marks)

4 questions to be given one from each unit as follows:

1. Matrices: 1 question with enough sub-questions that take 30 minutes to answer using the chosen FOSS tool.
2. Differential calculus and integral calculus: 2 questions with enough sub-questions that take 60 minutes to answer using the chosen FOSS tool.
3. Analytic geometry of three dimensions: 1 question with enough sub-questions that take 30 minutes to answer using the chosen FOSS tool.

Break-up of practical mark allotment (of 35 marks) -

Practical Record	: 5 marks
Unit 1	: 5 marks
Unit 2	: 10 marks
Unit 3	: 5 marks
Question bank answers (spiral bound book with the answers in the candidates own handwriting)	: 5 marks
Viva	: 5 marks

Break-up of internal assessment marks for theory (of 30 marks)

Attendance	: 5 marks
Preparatory theory exam	: 25 marks

Break-up of internal assessment marks for practical (of 15 marks)

Preparatory practical exam	: 15 marks
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(HOD Maths)

General Instructions

1. You are requested to be present one hour before the commencement of the practical examination.
2. You and your co-examiner are in-charge of setting, preparation and conduct of practical examination.
3. You are requested to check the formulae, circuit diagrams, expected graphs, electrical connections, arrangement of the apparatus, readings etc.
4. If any candidate requests for assistance at any stage, he/she may be assisted and proportionately marks may be deducted.
5. Examiners should also prepare invigilator's diary in respect of the practical examination and ensure that the serial number of answer booklet issued to the students is indicated in the diary. The same diary must be used for additional booklets and the graph sheets.

Scheme of Evaluation for I & III semester B.Sc. practical examination (CBCS-effective from 2016-2017)

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|--|----------------------|
| 1. Writing principle/ statement, formula and explanation of symbols with units | ...2+2+2=6 marks |
| 2. Diagram/circuit diagram and expected Graph |2+1=3 marks |
| 3. Tabular Columns+ Setting up of the experiment + Taking readings & entering |10 marks |
| 4. Calculations (explicitly shown) + Graph |08 marks |
| 5. Accuracy of results with units |03 marks |
| 6. Class Records (to be valued at the time of practical examination) |05 marks |
| Total marks for Practical Examination |35 marks |

Scheme of Evaluation for I, III and V semester B.Sc. practical examination (CBCS-effective from 2014-2015)

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|---|---------------------|
| 1. Writing formula, explanation, figure/circuit diagram |05 marks |
| 2. Setting up of the experiment and entering the observations in tabular column |20 marks |
| 3. Calculation/Graph, Results with units |05 marks |
| 4. Class records (to be valued at the time of practical examination) |05 marks |
| Total marks for the Practical Examination |35marks |

Scheme of Evaluation for I, III and V semester B.Sc. practical examination (NS 2011-12 onwards)

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|--|----------------------|
| 1. Formula with explanation of symbols |03 marks |
| 2. Diagram/circuit diagram and tabular column |03 marks |
| 3. Experimental setup and systematic entry of readings |08 marks |
| 4. Accuracy of readings |05 marks |
| 5. Graph and Calculations |03 marks |
| 6. Final results and units |03 marks |
| 7. Class records (to be valued at the time of practical examination) |05 marks |
| Total marks for the Practical examination |30 marks |

Important: submit the practical examination bills within 30 days from the date of Practical Examinations to claim the remuneration/allowances


(HOD Maths)