

# RAIGANJ UNIVERSITY

P.O.: Raiganj, Dist.: Uttar Dinajpur, West Bengal, Pin: 733134



## DEPARTMENT OF ZOOLOGY

### Examination Schedule and Important Notice For M.Phil (1st Semester) and Ph.D (Sixth Months Course Work) Students of Zoology

All of the students of M.Phil-Zoology (1st Semester) and Ph.D-Zoology (Sixth Months Course work) are to submit the following assignments by e-mail to the concerned faculty member within the stipulated time frame as noted below as a part of the curriculum/syllabus for the respective course/discipline. Please note that the topics are already communicated to the students earlier.

#### 1. Assignment and Distribution of Marks for Internal Assessment (Scientific notes) /mini-Review Work (25x4=100)

Papers (Theory/Application)		Topics for scientific notes/mini-Review *	Marks distribution		
			Submission of write-up	Viva-voce**	Total
Internal Assessment	Advances in Zoological Research (ZOOMPH 1101)	Immuno-modulation by food: promising concept for mitigating allergic disease (Or) Urgency to conserve and accordingly to restore ecological linkages for safe emigration of wildlife species between countries	15	10	25
	General Research Methodology (ZOOMPH 1102)	Composite fish farming in West Bengal, India: redesigning management practices for better livelihood	15	10	25
	Computer Application and Biostatistics (ZOOMPH 1103)	Application of artificial intelligence in biomedical engineering and informatics (Or) Obtrusive plagiarism and data falsification in biological sciences: trends and remedies	15	10	25
Mini-Review	Review of literature/ Investigation / Seminar / Collection and analysis of Data (ZOOMPH 1204)	Rainwater harvesting for sustainable livelihood in urban areas: Problems and Prospects	15	10	25

(\*): Write-up to be submitted to Dr. A.Bhattacharya, Associate Professor in Zoology, RGU within 30.10.2020 by e-mail, (\*\*) Viva-voce will be conducted by Google-Meet link. Students are advised to contact with Dr. A.Bhattacharya, Associate Professor in Zoology, RGU for this purpose.

- **Guideline for writing scientific notes:** The emphasis of writing will be given on the depth of the content and originality. Plagiarism is to be checked to keep the originality of the work. The scientific note preferably consists of (i) Introduction, (ii) Main Body of the text, (iii) Concluding remarks with (viii) your suggestion/observation. Collectively the word count will be ABOUT 1500 words.

## 2. Review of literature/Investigation/Seminar /Collection and analysis of Data (Application)

[Paper code: ZOOMPH 1204]

[50 (write-up)+15 (power point)+10 (viva-voce)= 75 Marks]

**Guideline of writing of the review has already been communicated to the students. However the guideline is further narrated as reference.**

- **Topics:** Any topic having social interest to be selected by each student from any one of the following fields: (i) Ecology, (ii) Endocrinology, (iii) Entomology (iv) Fishery (v) Immunology . the title of the review should be unambiguous, understandable to specialists in other fields, and must reflect the contents of the paper. No abbreviations may be used in the title.
- **Keywords:** a maximum of 6, should cover the most specific terms found in the paper. They should describe the subject and results and must differ from words used in the title.
- **Style and structure of writing:** All papers should be in English. Papers should be typed double-spaced with 1-inch wide margins on all sides. The note should be written in Times New Roman 12 Font; 1.5 space, scientific names (if any) in italics; captions of figures and tables in Times New Roman 10 Font; a list of tables and figures should be given in a separate page; figures and tables must have numbers and they should be placed near the text content as far as possible.
- **Text headings and content:** Text heading should be typed as **FIRST-LEVEL HEADING**, **SECOND-LEVEL HEADING** and **THIRD LEVEL HEADING**. The emphasis of writing will be given on the depth of the content and originality. Extent of plagiarism is to be checked during examination to keep the originality of the work. References should be given at the end of the writing either alphabetically or numbering as and when it appears in the text.
- **Content of the Review:** The review paper preferably consists of: (i) Title Page, (ii) Table of Contents, (iii) List of abbreviations, (iv) List of Figures /List of Tables (if necessary), (v) Introduction, (vi) Main Body of the text, (vii) Concluding remarks, (viii) References, (ix) Appendices (if necessary). The body text encompasses Introduction, main body and conclusion. The word count of the **MAIN BODY** preferably be between 3000-3500 words.
- **References:** Older references can be cited only if they are important for manuscript content. The full name of periodicals should be given. If possible, the DOI number should be added at the end of each reference. In the text, papers with more than two authors should be cited by the last name of the first author, followed by et al. (*et al.* in italics), a space, and the year of publication (**example:**

**Saha et al. 2012**). If the cited manuscript has two authors, the citation should include both last names, a space, and the publication year (**example: Saha and Mondal 2006**). In the All references cited in the text must be listed in the Reference section alphabetically by the last names of the author(s) and then chronologically.

The following system for arranging references should be used:

**Journal articles:** Jorjani M., Heydari A., Zamanizadeh H.R., Rezaee S., Naraghi L., Zamzami P. 2012. Controlling sugar beet mortality disease by application of new bio-formulations. **Journal of Plant Protection Research** 52 (3): 303-307. DOI: <https://doi.org/10.2478/v10045-012-0049-9>.

**Online article:** Turner E., Jacobson D.J., Taylor J.W. 2011. Genetic architecture of a reinforced, postmating, reproductive isolation barrier between *Neurospora* species indicates evolution via natural selection. **PLoS Genetics** 7 (8): e1002204. DOI: <https://doi.org/10.1371/journal.pgen.1002204>

**Books:** Bancroft J.D., Stevens A. 1996. Theory and Practice of Histological Techniques. 4th ed. Churchill Livingstone, Edinburgh, UK, 776 pp.

**Book chapters:** Pradhan S.K. 2000. Integrated pest management. p. 463-469. In: "IPM System in Agriculture. Cash Crop" (R.K. Upadhyaya, K.G. Mukerji, O.P. Dubey, eds.). Aditya Books Pvt. Ltd. New Delhi, India, 710 pp.

**Conference, Workshop, Symposium Proceedings.** Adamczewski K., Wagner J., Kierzek R. 2010. The quantification of the target-side resistance to mesosulfuron/iodosulfuron in a black-grass (*Alopecurus myosuroides* Huds.) biotype with Pro197-to-His mutation from a winter wheat field in Poland using pot test and Petri dish assay. p. 24. In: Proceedings of the 15th European Weed Research Society Symposium. 12–15 June 2010, Kaposvár, Hungary, 337 pp.

**Online documents:** Cartwright J. 2007. Big stars have weather too. IOP Publishing Physics Web. Available on: <https://doi.org/10.1371/journal.pgen.1002204>. [Accessed on: 7 January 2007].

- **Presentation:** A power point to be prepared related to the topic selected in the review that includes presentable 20-30 slides.
- **Submission:** Students have to submit the review paper including the power point by 30.10.2020 to Dr.K.Chakraborty, Professor & Head Department of Zoology, RGU by e-mail.

### **3a. EXAMINATION SCHEDULE FOR REVIEW/SEMINAR PAPER#**

<b>Name of the Paper</b>	<b>Paper Code</b>	<b>Allotted Marks</b>	<b>Date</b>	<b>Time and duration of Examination<sup>#</sup></b>	<b>Name of teacher with whom student have to contact</b>
Review of literature/investigation/ seminar/collection and analysis of Data* (Application)	ZOOMPH 1204	75	04.11.2020	Time of commencement 11:00 am onwards	Dr. Amal Bhattacharaya,
					Mr. Vivek Roy
					Mr. Tapan Sarkar

(\*) To be submitted by 30.10.2020 as per notification. Only the viva will be taken on 04.11.2020 by Google Meet Platform

### **3b. EXAMINATION SCHEDULE FOR THEORITICAL PAPERS#**

<b>Name of the Paper</b>	<b>Paper Code</b>	<b>Allotted Marks</b>	<b>Date</b>	<b>Time and duration of Examination<sup>#</sup></b>	<b>Name of teacher with whom student have to contact</b>
Computer Application and Bio-statistics (Theory)	ZOOMPH 1103	75	06.11.2020 (Friday)	11:00 am -2:00 pm (3:00 hrs)	Dr Amal Bhattacharya
					Sri Partha Sarathi Nandi
Advances in Zoological Research (Theory)	ZOOMPH 1101	75	09.11.2020 (Monday)	11:00 am -2:00 pm (3:00 hrs)	Dr Debashri Mondal
General Research Methodology (Theory)	ZOOMPH 1102	75	10.11.2020 (Tuesday)	11:00 am -2:00 pm (3:00 hrs)	Dr Amal Bhattacharya

# as per notification by Deputy Controller of Examinations, RGU dated 12.10.2020,

#### 4. Question Pattern and Distribution of Marks for Theoretical Papers:

Papers (Theory)		Multiple choice	Objective	Short answer type	Broad answer type	Full marks	
		1 mark each	3 marks each	5 marks each	10 marks each		
Advances in Zoological Research (ZOOMPH 1101)		$1 \times 05^a(07)^b = 05$	$3 \times 10^a(12)^b = 30$	$5 \times 4^a(6)^b = 20$	$10 \times 2^a(4)^b = 20$	75	
General Research Methodology (ZOOMPH 1102)		$1 \times 05^a(07)^b = 05$	$3 \times 10^a(12)^b = 30$	$5 \times 4^a(6)^b = 20$	$10 \times 2^a(4)^b = 20$	75	
Computer Application and Biostatistics (ZOOMPH 1103)	Computer Application	$1 \times 4^a(06)^b = 04$	$3 \times 2^a(04)^b = 06$	$5 \times 4^a(6)^b = 20$	$10 \times 1^a(2)^b = 10$	40	75
	Biostatistics	$1 \times 4^a(06)^b = 04$	$3 \times 2^a(04)^b = 06$	$5 \times 3^a(6)^b = 15$	$10 \times 1^a(2)^b = 10$	35	

(a): Number of questions to be answered by the candidate, (b): Number of questions in the question paper

#### 5. MODALITIES FOR BOTH M.PHIL ( FIRST SEMESTER) PH.D (SIX MONTH COURSE WORK) EXAMINATION-2020 IN ZOOLOGY

The Examination guideline is prepared as per the notification by Deputy Controller of Examinations, RGU 314/CE/RGU/2020 dated 30.09.2020 and subsequent PG-BOS (Zoology) Meeting dated 05.10.2020

- i. Both M.Phil (1st Semester) and Ph.D (Course Work) Examination will be conducted by online mode.
- ii. Question paper will be circulated digitally by (i) e-mail of the concerned candidate (if available)/What's App group constructed for the particular study/course.
- iii. A copy of the question paper will also be uploaded in the University Website.
- iv. Students have to send a **CONFIRMATION MESSAGE** either by (i) e-mail or (ii) in group What's App immediately after receiving the question paper.
- v. If a student does not get the question paper he/she should contact with the concerned faculty member immediately to get the same.


- vi. During the time of examination a student **SHOULD NOT** communicate/send the question paper to anyone by any mode.
- vii. Students have to write the (i) roll-number, (ii) registration number, (iii) name of the paper with paper code etc. prior to start the writing process. **DO NOT** write your name in anywhere in the **Answer scrip**.
- viii. Students have to write in their own page.
- ix. A4 page size with proper margin and continuous page number is to be followed.
- x. There is **PREFERABLE** page limit to answer the questions. (a) **1 marks:** 3 lines, (b) **3 marks:** ½ page (c) **5 marks :**1½ pages and (d) **10 marks : 3 pages**
- xi. Students have to notice the mobile/cell phone until and unless the examination is over to get important messages related to examination, if any.
- xii. In addition to the normal time frame allowed in the examinations, the examinees will be allowed with an additional time of **30 (THIRTY) MINUTES** both for **DOWN LOADING** the question papers and **UPLOADING** the answer scripts for this examinations. The **FRONT PAGE** of the University Answer Scripts may be used for the examinations.
- xiii. After writing, the Students will **POST** the answer script primarily by e-mail. If any case e-mail is not working then only What's App can be used to send the answer copy. If What's App is opted, the answer copy to be send **INDIVIDUALLY** to the concerned faculty members (**not in the GROUP What's App**).
- xiv. After posting the **ANSWER** script in **SINGLE PDF** format, students had to restore the hard copy of the **ANSWER SCRIPT** and **DIGITAL DOCUMETS VERY CAREFULLY** without disclosing to anyone. If required the same will be asked.

**6. Contact Numbers and e-mail account of the Faculty members of Department of Zoology, RGU**

<b>Name of the faculty members</b>	<b>Mobile number</b>	<b>Mobile number with What' App facility</b>	<b>e-mail account</b>
<i>Dr. Amal Bhattacharaya</i> , Associate Professor, Department of Zoology, RGU	9434966270	9434966270	amalbasabi@gmail.com
<i>Dr. Kaushik Chakraborty</i> , Professor and Head Department of Zoology, RGU	9434983950	8918936078	Kaushik_apdcollege@rediffmail.com
<i>Mr. Partha Sarathi Nandi</i> , Assistant Professor, Department of Zoology, RGU	629760041	9932063294	partharayma99@gmail.com
<i>Mr. Vivek Roy</i> , Assistant Professor, Department of Zoology, RGU	9679059827	9679059827	vivekcoochbehar.roy@gmail.com
<i>Dr. Debashri Mondal</i> , Assistant Professor, Department of Zoology, RGU	6291774155	6291774155	drdebashrimondal@gmail.com
<i>Mr. Tapan Sarkar</i> , Assistant Professor, Department of Zoology, RGU	8942043736	9064645976	tapan.ruzoo@gmail.com

Students have to contact to the concerned faculty member of Zoology, RGU for the particular paper.

Department of Zoology  
Raiganj University  
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DR. KAUSHIK CHAKRABORTY  
Professor & Head  
Department of Zoology  
Raiganj University  
Uttar Dinajpur, 733134  
West Bengal.

Date:12.10.2020

# RAIGANJ UNIVERSITY

## DEPARTMENT OF ZOOLOGY

P.O.: Raiganj, Dist.: Uttar Dinajpur, West Bengal, Pin: 733134



### STATEMENT OF THE STUDENT (M.Phil/Ph.D)

**(Submit a duly filled statement form by e-mail to HoD Zoology by 28.10.2020)**

**Hand written form is also accepted**

Roll-number	Registration number with session	for examination purpose		Full signature of the candidate with date
		Mobile number with What's App facility	e-mail account	

**Attach a Photocopy of the Admit Card/documents ensuring form fill-up**



# RAIGANJ UNIVERSITY

Signature of the Invigilator(s)

Controller of Examinations



Countersigned  
Centre-in-Charge/Officer-in-Charge

Examination, 2020		
Registration No. ....	Session .....	
ROLL ..... No. ....	Examination Date .....	
SUBJECT .....	PAPER/COURSE .....	

Question Number	Marks Obtained	Reassessed marks.
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
TOTAL		

Examiner's Signature	Pre-publication Scrutiniser's Signature	Head Examiner's Signature	Re-Assessor's Signature	Post Publication Scrutiniser's Signature
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