

## Form and Conduct NST Part IB 2023-24

NST1 - all students are permitted the use of an approved calculator for these exams, except for Mathematics

Course title	Exam title	Exam code	Details of borrowing Triposes	Length of exam	Format	How many questions should be answered. Sections also outlined.	Type of questions	The weighting of exam paper	Any other relevant details such as the use of formula sheets or data books.
Biology of Disease	Biology of Disease (Paper 1)	BIO/1		3 Hours	Closed book In-person Inspera	Section A: 4 questions, 2 must be answered Section B: 4 questions, 2 must be answered	Essay style	65% of the subject	
Biology of Disease	Biology of Disease (Practical examination)	BIO/P		2 Hours	Closed book In-person Inspera	Five sections (Bacteriology, Analysis of tissue sections, Analysis of information relating to a clinical case, Virology and Immunology). Variable number of questions (3-10 per section), around 25 overall, of which all should be attempted.	Short answer	35% of the subject	
Biochemistry and Molecular Biology	Biochemistry and Molecular Biology (Paper 1)	BMB/1		3 Hours	Closed book In-person Inspera	5 Sections. Students should answer one essay question from each section. Each section carries equal marks.	Essay style	47.5% of the subject	5% of BMB is satisfactory completion of the practical course
Biochemistry and Molecular Biology	Biochemistry and Molecular Biology (Paper 2)	BMB/2		3 Hours	Closed book In-person Inspera	Section A (1/3 of marks): short-answer factual questions based on the whole lecture course, and each question will carry equal marks. All questions in Section A should be attempted. Section B (2/3 of marks) is concerned with data handling. All questions in Section B should be attempted.	Short answer Data handling	47.5% of the subject	5% of BMB is satisfactory completion of the practical course
Cell and Developmental Biology	Cell and Developmental Biology (Paper 1)	CDB/1		3 Hours	Closed book In-person Inspera	Section A: 5 questions Section B: 4 questions Section C: 4 questions Students must answer 4 questions, at least 1 from each section.	Essay style	50% of the subject	
Cell and Developmental Biology	Cell and Developmental Biology (Paper 2)	CDB/2		3 Hours	Closed book In-person Inspera	Section A: 5 questions, students must answer 2 questions from Section A. Section B: 8 questions, students must answer all questions from Section B.	Section A: Essay style Section B: Short answer	50% of the subject	
Chemistry A	Chemistry A (Paper 1)	CHA/1		3 Hours	Closed book In-person Hand-written	Contains FIVE questions. Answer all FIVE questions.	Problem based	40% of the subject	Department of Chemistry Data Book required. <b>Molecular Models</b> - students permitted to bring their own unassembled molecular model kits.
Chemistry A	Chemistry A (Paper 2)	CHA/2		3 Hours	Closed book In-person Hand-written	Contains FIVE questions. Answer all FIVE questions.	Problem based	40% of the subject	Department of Chemistry Data Book required. <b>Molecular Models</b> - students permitted to bring their own unassembled molecular model kits.
Chemistry B	Chemistry B (Paper 1)	CHB/1		3 Hours	Closed book In-person Hand-written	Contains FIVE questions. Answer all FIVE questions.	Problem based	40% of the subject	Department of Chemistry Data Book required. <b>Molecular Models</b> - students permitted to bring their own unassembled molecular model kits.
Chemistry B	Chemistry B (Paper 2)	CHB/2		3 Hours	Closed book In-person Hand-written	Contains FIVE questions. Answer all FIVE questions.	Problem based	40% of the subject	Department of Chemistry Data Book required. <b>Molecular Models</b> - students permitted to bring their own unassembled molecular model kits.
Evolution & Animal Diversity	Evolution & Animal Diversity (Paper 1)	EAD/1		3 Hours	Closed book In-person Inspera	Section A: 3 questions. Sections B, C and D: 2 questions Students must answer 4 questions from at least 3 sections.	Essay style	40% of the subject	
Evolution & Animal Diversity	Evolution & Animal Diversity (Paper 2)	EAD/2		3 Hours	Closed book In-person Inspera	6 questions, students must answer 5.	Short answer	40% of the subject	
Ecology, Evolution, & Conservation	Ecology, Evolution, & Conservation (Paper 1)	ECO/1		3 Hours	Closed book In-person Inspera	Five sections (A to E), two questions per section. Students must answer four questions, but no more than one question from each section.	Essay style	33.333% of the subject	
Ecology, Evolution, & Conservation	Ecology, Evolution, & Conservation (Paper 2)	ECO/2		3 Hours	Closed book In-person Inspera	Five sections (A to E), two questions per section. Students must answer four questions, but no more than one question from each section.	Essay style	33.333% of the subject	
Earth Sciences A	Earth Sciences A (Paper 1)	ESA/1		3 Hours	Closed book In-person Hand-written	The paper has two sections labelled Section A and Section B. Each section contains four questions. The students must answer two questions from each section, four questions in total.		30% of the subject	

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Earth Sciences A	Earth Sciences A (Paper 2)	ESA/2		3 Hours	Closed book In-person Hand-written	The paper has two sections labelled Section A and Section B. Each section contains four questions. The students must answer two questions from each section, four questions in total.		30% of the subject	
Earth Sciences A	Earth Sciences A (Practical examination)	ESA/P		3 Hours	Practical exam in department	Four sections, the number of questions in each section may vary, but students answer all questions.	Calculations, descriptions of hand specimens and microscope specimens	26.7% of the subject	
Earth Sciences A	Earth Sciences A (Practical examination 2)	ESA/P2		1 Hour 30 mins	Practical exam in department	Students answer all questions, then number of questions can vary.	The interpretation of geological map	13.3% of the subject	
Earth Sciences B	Earth Sciences B (Paper 1)	ESB/1		3 Hours	Closed book In-person Hand-written	The paper has two sections labelled Section A and Section B. Each section contains four questions. The students must answer two questions from each section, four questions in total.	essay style, short answer and calculations	30% of the subject	
Earth Sciences B	Earth Sciences B (Paper 2)	ESB/2		3 Hours	Closed book In-person Hand-written	The paper has two sections labelled Section A and Section B. Each section contains four questions. The students must answer two questions from each section, four questions in total.	essay style, short answer and graphical exercises	30% of the subject	
Earth Sciences B	Earth Sciences B (Practical examination)	ESB/P		3 Hours	Practical exam in department	The paper has three sections labelled Section A, Section B, and Section C. Section A contains three questions. Section B contains two questions. Section C contains three questions. Students should attempt all questions in every section.	The questions are a mixture of short answer, calculations, graphical exercises, and working with microscope slides and hand samples of rocks.	26.7% of the subject	Students are allowed to a handout that is provided and contains classification tables and other reference material. Students are also allowed to use a the textbook 'The Rock-Forming Minerals' by Deer, Howie, and Zussman. The textbook may be annotated with their own notes.
Earth Sciences B	Earth Sciences B (Practical examination 2)	ESB/P2		1 Hour 30 mins	Practical exam in department	The paper typically has approximately six questions but the number may vary each year. The students should answer all questions.	The questions are a mixture of short answer and graphical exercises, such as drawing sketch maps and cross sections.	13.3% of the subject	Students are allowed to a handout that is provided and contains classification tables and other reference material. Students are also allowed to use a the textbook 'The Rock-Forming Minerals' by Deer, Howie, and Zussman. The textbook may be annotated with their own notes.
Experimental Psychology	Experimental Psychology (Paper 1)	EXP/1	Borrowed by PBS, HSPS and Archaeology (PBS 4) Borrowed by Philosophy (EXP/1)	3 Hours	Closed book In-person Inspira	3 sections, each containing 2 questions (with sub-questions). Per section students must answer 2 short accounts and 1 essay.	Essay style Short answer	46% of the subject	
Experimental Psychology	Experimental Psychology (Paper 2)	EXP/2	Borrowed by Philosophy (EXP/2)	3 Hours	Closed book In-person Inspira	3 sections, each containing 2 questions (with sub-questions). Per section students must answer 2 short accounts and 1 essay.	Essay style Short answer	46% of the subject	
History and Philosophy of Science	History and Philosophy of Science (Paper 1)	HPS/1	NSP2HP HPT2 PBT1	3 Hours	Open-book Moodle	Section A: 2 questions, students answer 1 Section B: 10 questions, students answer 3 All questions are equally weighted.	Essay style	50% of the subject	
History and Philosophy of Science	History and Philosophy of Science (Paper 2)	HPS/2	NSP2HP HPT2 PBT1	3 Hours	Open-book Moodle	Section A: 2 questions, students answer 1 Section B: 10 questions, students answer 3 All questions are equally weighted.	Essay style	50% of the subject	
Mathematical and Computational Biology	Mathematical and Computational Biology (Paper 1)	MCB/1		3 Hours	Closed book In-person Hand-written (processed through Inspira)	8 questions, students must answer 6. Each question is equally weighted.	Mathematical or technical problems	50% of the subject	
Mathematical and Computational Biology	Mathematical and Computational Biology (Paper 2)	MCB/2		3 Hours	Closed book In-person practical exam using Python	12 questions, students must answer all 12. Each question is equally weighted.	Mathematical or technical problems	15% of the subject	Candidates will be provided with printed copies of the questions, which must be answered by updating an electronic Interactive Python Notebook on the terminal provided. Candidates may refer to a series of provided digital cheat sheets concerning programming languages, code libraries and key methods
Mathematics	Mathematics (Paper 1)	MTH/1		3 Hours	Closed book In-person Hand-written	10 questions, students must answer 6.	Long questions	45.45% of the subject	

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Mathematics	Mathematics (Paper 2)	MTH/2		3 Hours	Closed book In-person Hand-written	10 questions, students must answer 6.	Long questions	45.45% of the subject	
Materials Science	Materials Science (Paper 1)	MTS/1		3 Hours	Closed book In-person Hand-written	7 questions, students must answer 5.	Hybrid	40% of the subject	Data Book provided
Materials Science	Materials Science (Paper 2)	MTS/2		3 Hours	Closed book In-person Hand-written	7 questions, students must answer 5.	Hybrid	40% of the subject	Data Book provided
Neurobiology	Neurobiology (Paper 1)	NB/1	PBT1 NS3 = 75%	3 Hours	Closed book In-person Inspira	10 questions, students must answer 4.	Essay style	67% of the subject	
Neurobiology	Neurobiology (Practical examination)	NB/A2	PBT1 NS3SA, section A only, 1hr = 25%	1 Hour 30 mins	Closed book In-person Inspira	Section A: 20 questions (22% of the exam paper) Section B: 4 questions (11% of the exam paper) Students must answer all questions.	Short answer	33% of the subject	
Pharmacology	Pharmacology (Paper 1)	PHA/1		3 Hours	Closed book In-person Inspira	6 questions, each sub-divided into (a) and (b) options. Students must answer one option from each of the 6 questions.	Extended answers	60% of the subject	
Pharmacology	Pharmacology (Written practical examination)	PHA/WP		3 Hours	Closed book In-person Inspira	4 questions: Q1 (written practical with subquestions) Q2 (extended answer) Q3 (written practical with subquestions) Q4 (extended answer) Students answer all questions	Short and extended answers	30% of the subject	Formula Sheet: 1 A4 with equations on receptor-ligand interactions and pharmacokinetics
Plant and Microbial Sciences	Plant and Microbial Sciences (Paper 1)	PMS/1		3 Hours	Closed book In-person Inspira	Section A (15%), student answer eight short-answer questions on the lecture course. Section B (25%), students answer ten short-answer questions on the practical element of the course.	Short answer	40% of the subject	
Plant and Microbial Sciences	Plant and Microbial Sciences (Paper 2)	PMS/2		3 Hours	Closed book In-person Inspira	<b>Section A:</b> two essay questions on Michaelmas Term lectures set by individual lecturers. <b>Section B:</b> three essay questions on Lent Term plus remaining Easter Term lectures set by individual lecturers. <b>Section C:</b> two synoptic essay questions set by more than one lecturer in the course to test candidates' abilities to integrate more than one of the lecture blocks. Students answer 3 questions from Sections A and B, and 1 question from Section C. All questions are equally weighted.	Essay style	50% of the subject	
Physics A	Physics A (Paper 1)	PSA/1		3 Hours	Closed book In-person Hand-written	Section A: 5 questions Section B: 2 questions Section C: 1 question Section D: 1 question Students answer all questions	Multiple choice Short answer	37.5% of the subject	Mathematical Formulae booklet V. 2.5
Physics A	Physics A (Paper 2)	PSA/2		3 Hours	Closed book In-person Hand-written	Section A: 5 questions Section B: 2 questions Section C: 1 question Section D: 1 question Students answer all questions	Multiple choice Short answer	37.5% of the subject	Mathematical Formulae booklet V. 2.5
Physics B	Physics B (Paper 1)	PSB/1		3 Hours	Closed book In-person Hand-written	Section A: 5 questions Section B: 2 questions Section C: 1 question Section D: 1 question Students answer all questions	Multiple choice Short answer	37.5% of the subject	Mathematical Formulae booklet V. 2.5
Physics B	Physics B (Paper 2)	PSB/2		3 Hours	Closed book In-person Hand-written	Section A: 5 questions Section B: 2 questions Section C: 1 question Section D: 1 question Students answer all questions	Multiple choice Short answer	37.5% of the subject	Mathematical Formulae booklet V. 2.5

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Physiology	Physiology (Paper 1)	PSG/1		3 Hours	Closed book In-person Inspira	6 questions, students must answer 3.	Essay style	50% of the subject	
Physiology	Physiology (Paper 2)	PSG/2		2 Hours	Closed book In-person Inspira	Section A = 10 SAQ Section B = 30 MCQ Section C = 5 MCQ Students answer all questions	Short answer Multiple choice	50% of the subject	
Quantitative Environmental Science	Quantitative Environmental Science (Paper 1)	QES/1		3 Hours	Closed book In-person Hand-written	Section A: 4 questions (15 minutes each) Section B: 4 questions (30 minutes each) Students must answer all questions.	Short answer Mathematical	30% of the subject	
Quantitative Environmental Science	Quantitative Environmental Science (Practical test)	QES/P		2 Hours	Computational exam In-person	The paper is a computational exam, testing the students' coding, done in invigilated conditions and has 7-8 questions to be answered.	Coding and plotting	20% of the subject	Open book in so far as the students have access to the internet