

**Form and Conduct NST Part II 2023-24**

NST2 - all students are permitted the use of an approved calculator for these exams

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.
Astrophysics	Paper 1	1		3 hours	Closed book In-person Handwritten	Each question is divided into Part i and Part ii with, typically, 2 –5 related questions to each part. 8 questions in total and up to 6 may be attempted.	Written answer with calculations or diagrams	Part ii questions carry twice as many marks as Part i. Each of the 4 exam papers are worth 180 marks with either one computer or essay coursework project worth a further 120 marks. Total marks 840	A formulae book
Astrophysics	Paper 2	2		3 hours	Closed book In-person Handwritten	Each question is divided into Part i and Part ii with, typically, 2 –5 related questions to each part. 8 questions in total and up to 6 may be attempted.	Written answer with calculations or diagrams	Part ii questions carry twice as many marks as Part i. Each of the 4 exam papers are worth 180 marks with either one computer or essay coursework project worth a further 120 marks. Total marks 840	A formulae book
Astrophysics	Paper 3	3		3 hours	Closed book In-person Handwritten	Each question is divided into Part i and Part ii with, typically, 2 –5 related questions to each part. 8 questions in total and up to 6 may be attempted.	Written answer with calculations or diagrams	Part ii questions carry twice as many marks as Part i. Each of the 4 exam papers are worth 180 marks with either one computer or essay coursework project worth a further 120 marks. Total marks 840	A formulae book
Astrophysics	Paper 4	4		3 hours	Closed book In-person Handwritten	Each question is divided into Part i and Part ii with, typically, 2 –5 related questions to each part. 8 questions in total and up to 6 may be attempted.	Written answer with calculations or diagrams	Part ii questions carry twice as many marks as Part i. Each of the 4 exam papers are worth 180 marks with either one computer or essay coursework project worth a further 120 marks. Total marks 840	A formulae book
History and Philosophy of Science (BBS)	Philosophy and Ethics of Medicine	NST2BBS/ 107		3 hours	Open Book Online via Moodle	This paper has two sections, with six questions in each. Section A is Ethics of Medicine, Section B is Philosophy of Medicine. Students answer four questions, at least one question from each section.	Essay style		
History and Philosophy of Science (BBS)	Early Medicine	NST2BBS/113		3 hours	Open Book Online via Moodle	Students answer 3 questions from 12.	Essay style		
History and Philosophy of Science (BBS)	Modern Medicine and Biomedical Sciences	NST2BBS/114		3 hours	Open Book Online via Moodle	Students answer 3 questions from 12.	Essay style		
Biochemistry	Paper 1	Paper 1		3 hours	Closed book In-person Inspira	Two sections. Section I = 2 questions of a broad, integrative nature, and/or requiring discussion of methods and approaches to addressing biochemical problems. Section II = 5 more focussed questions. Students answer one question from Section I, and two questions from Section II. Each question will carry equal marks.	Essay style	16% (BBS = 12.8%)	
Biochemistry	Paper 2	Paper 2	NST2BBS_134 NST2ZO/ZM7	3 hours	Closed book In-person Inspira	Two sections. Section I = 2 questions of a broad, integrative nature, and/or requiring discussion of methods and approaches to addressing biochemical problems. Section II = 5 more focussed questions. Students answer one question from Section I, and two questions from Section II. Each question will carry equal marks.	Essay style	16% (including BBS minor) (BBS = 12.8%)	
Biochemistry	Paper 3	Paper 3	NST2BBS_135 NST2ZO/ZL7	3 hours	Closed book In-person Inspira	Two sections. Section I = 2 questions of a broad, integrative nature, and/or requiring discussion of methods and approaches to addressing biochemical problems. Section II = 5 more focussed questions. Students answer one question from Section I, and two questions from Section II. Each question will carry equal marks.	Essay style	16% (including BBS minor) (BBS = 12.8%)	

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Biochemistry	Paper 4	Paper 4		3 hours	Closed book In-person Inspira	Four sections. Section I = 2 questions on module C of a broad, integrative nature, and/or requiring discussion of methods and approaches to addressing biochemical problems. Sections II–IV will contain more focussed questions. Section II = 3 questions on the first half ('The dynamic cell') of module C. Section III = 3 questions on the 'Bioenergy' component of module C. Section IV = 3 questions on the 'Molecular microbiology of infectious disease' component of module C. Candidates will be required to answer one question from Section I, one question from Section II, and one question from either Section III or Section IV. Each question will carry equal marks.	Essay style	16% (BBS = 12.8%)	
Biochemistry	Paper 5	Paper 5		3 hours (plus 15mins reading time)	Closed book In-person Inspira	Students should answer all parts of both sections (A and B). Each section will carry equal marks.	Data handling	16% (BBS = 12.8%)	Students are advised to spend 15 minutes reading the paper before attempting to answer the questions.
Chemistry (Including Half-Subject)	Chemistry Paper 1	1	NST2PC - Physical Sciences	3 hours + 10 minutes reading time	Closed book In-person Handwritten	Section A = 8 x Q answer ALL Section B = 4 x Q answer ALL	Problem based	18.75%	Department of Chemistry Data Book required. Molecular Models - students permitted to bring their own unassembled molecular model kits.
Chemistry (Including Half-Subject)	Chemistry Paper 2A	2A	NST2PC - Physical Sciences	3 hours + 10 minutes reading time	Closed book In-person Handwritten	Section A = 8 x Q answer ALL Section B = 4 x Q answer ALL	Problem based	18.75%	Department of Chemistry Data Book required. Molecular Models - students permitted to bring their own unassembled molecular model kits.
Chemistry	Chemistry Paper 2B	2B		3 hours + 10 minutes reading time	Closed book In-person Handwritten	Section A = 8 x Q answer ALL Section B = 4 x Q answer ALL	Problem based	18.75%	Department of Chemistry Data Book required. Molecular Models - students permitted to bring their own unassembled molecular model kits.
Chemistry (Including Half-Subject)	Chemistry Paper 3	3	NST2PC - Physical Sciences	3 hours + 10 minutes reading time	Closed book In-person Handwritten	Contains two 45-min questions from each 12 lecture B course & one 45-minute from each 6 lecture B course. Answer FOUR questions without restriction.	Problem based	18.75%	Department of Chemistry Data Book required. Molecular Models - students permitted to bring their own unassembled molecular model kits.
Chemistry (Including Half-Subject)	Chemistry Paper 4	4	NST2PC - Physical Sciences	3 hours + 10 minutes reading time	Closed book In-person Handwritten	Contains two 45-min questions from each 12 lecture C course & one 45-minute from each 6 lecture C course. Answer FOUR questions without restriction.	Problem based	18.75%	Department of Chemistry Data Book required. Molecular Models - students permitted to bring their own unassembled molecular model kits.
Earth Sciences (Including Half-Subject)	Geophysics Practical	C1	NST2PC - Physical Sciences	3 Hours	Closed book In-person Hand-written	Variable number of short answer questions with time indicated per question (typically 5-20 minutes per answer). All questions compulsory.	Short answer	9%	
Earth Sciences (Including Half-Subject)	Geophysics Theory	C1T	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Two questions (60 minutes each) to be answered from a choice of four	Essay style	16%	
Earth Sciences (Including Half-Subject)	Ancient Life and Environments Practical	C2	NST2PC - Physical Sciences	3 Hours	Closed book In-person Hand-written	Variable number of short answer questions with time indicated per question (typically 5-20 minutes per answer). All questions compulsory.	Short answer	9%	
Earth Sciences (Including Half-Subject)	Ancient Life and Environments Theory	C2T	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Two questions (60 minutes each) to be answered from a choice of four	Essay style	16%	
Earth Sciences (Including Half-Subject)	Petrology Practical	C3	NST2PC - Physical Sciences	3 Hours	Closed book In-person Hand-written	Variable number of short answer questions with time indicated per question (typically 5-20 minutes per answer). All questions compulsory.	Short answer	9%	
Earth Sciences (Including Half-Subject)	Petrology Theory	C3T	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Two questions (60 minutes each) to be answered from a choice of four	Essay style	16%	
Earth Sciences (Including Half-Subject)	Climate Practical	C4	NST2PC - Physical Sciences	3 Hours	Closed book In-person Hand-written	Variable number of short answer questions with time indicated per question (typically 5-20 minutes per answer). All questions compulsory.	Short answer	9%	
Earth Sciences (Including Half-Subject)	Climate Theory	C4T	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Two questions (60 minutes each) to be answered from a choice of four	Essay style	16%	
Earth Sciences (Including Half-Subject)	Mineralogy Practical	C5	NST2PC - Physical Sciences	3 Hours	Closed book In-person Hand-written	Variable number of short answer questions with time indicated per question (typically 5-20 minutes per answer). All questions compulsory.	Short answer	9%	

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Earth Sciences (Including Half-Subject)	Mineralogy Theory	CST	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Two questions (60 minutes each) to be answered from a choice of four	Essay style	16%	
Genetics	Integrated Paper	IP		2 Hours	Closed book In-person Inspira	7 questions, students answer 1.	Essay style	10%	
Genetics	Genomes, Chromosomes & the Cell Cycle	P1	Borrowed by: NST2BBS 3_1	3 hours	Closed book In-person Inspira	7 questions, students answer 3.	Essay style Problem based Data interpretation	16%	
Genetics	Early Development & Patterning: Genetics & Cellular Mechanisms	P2	Shared: NST2ZO - ZM10 NST2PDN - P4 Borrowed by: NST2BBS 2_4 NST2BBS 3_2 NST2BBS 11_8	3 hours	Closed book In-person Inspira	7 questions, students answer 3.	Essay style Problem based Data interpretation	16%	
Genetics	Human Genetics, Genomics & Systems Biology	P3	Borrowed by: NST2BBS 3_3 NST2BBS 83	3 hours	Closed book In-person Inspira	7 questions, students answer 3.	Essay style Problem based Data interpretation	16%	
Genetics	Evolutionary Genetics & Adaptation	P4	Shared: NST2ZO - ZL5 Borrowed by: NST2BBS 3_4 NST2BBS 11_17 NST2BBS 84 NST2BBS 9_10 NST2PL ZL5	3 hours	Closed book In-person Inspira	7 questions, students answer 3.	Essay style Problem based Data interpretation	16%	
History and Philosophy of Science	Early Science and Medicine	Paper 1	CLT2 O11 NST2BBS (major)	3 hours	Open Book Online via Moodle	Candidates will be required to answer questions from Sections A and B. Section A will consist of general questions that range over the paper; candidates answer one question from three available. Section B will consist of more specific questions; candidates answer three questions from nine. All questions are weighted equally.	Essay style	20%	
History and Philosophy of Science	Sciences and Empires	Paper 2		3 hours	Open Book Online via Moodle	Candidates will be required to answer questions from Sections A and B. Section A will consist of general questions that range over the paper; candidates answer one question from three available. Section B will consist of more specific questions; candidates answer three questions from nine. All questions are weighted equally.	Essay style	20%	
History and Philosophy of Science	Modern Medicine and Life Sciences	Paper 3	NST2BBS (Major)	3 hours	Open Book Online via Moodle	Candidates will be required to answer questions from Sections A and B. Section A will consist of general questions that range over the paper; candidates answer one question from three available. Section B will consist of more specific questions; candidates answer three questions from nine. All questions are weighted equally.	Essay style	20%	
History and Philosophy of Science	Philosophy and Scientific Practice	Paper 4	PBT2 HPS4 NST2BBS (Major)	3 hours	Open Book Online via Moodle	Candidates will be required to answer questions from Sections A and B. Section A will consist of general questions that range over the paper; candidates answer one question from three available. Section B will consist of more specific questions; candidates answer three questions from nine. All questions are weighted equally.	Essay style	20%	
History and Philosophy of Science	Epistemology and Metaphysics of Science	Paper 5	HPT3 HPS5 PHT1 Paper 6	3 hours	Open Book Online via Moodle	Candidates will be required to answer questions from Sections A and B. Section A will consist of general questions that range over the paper; candidates answer one question from three available. Section B will consist of more specific questions; candidates answer three questions from nine. All questions are weighted equally.	Essay style	20%	
History and Philosophy of Science	Ethics and Politics of Science, Technology and Medicine	Paper 6	HPT3 HPS6 BBS (Major)	3 hours	Open Book Online via Moodle	Candidates will be required to answer questions from Sections A and B. Section A will consist of general questions that range over the paper; candidates answer one question from three available. Section B will consist of more specific questions; candidates answer three questions from nine. All questions are weighted equally.	Essay style	20%	

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Materials Science	Paper 1	1		3 Hours	Open book In-person Hand-written	1 compulsory question provided	Hybrid	17.5%	Data Book provided
Materials Science	Paper 2	2		4 Hours	Open book In-person Hand-written	8 questions, students answer 5.	Hybrid	17.5%	Data Book provided
Materials Science	Paper 3	3		5 Hours	Open book In-person Hand-written	8 questions, students answer 5.	Hybrid	17.5%	Data Book provided
Materials Science	Paper 4	4		6 Hours	Open book In-person Hand-written	8 questions, students answer 5.	Hybrid	17.5%	Data Book provided
Pathology	Pathology Paper 1	Paper 1	NST2BBS7	3 hours	Closed book In-person Inspira	Each paper has 4 sections. Students answer two questions from each of two sections corresponding to their chosen Michaelmas Term modules.	Essay style	16%	
Pathology	Pathology Paper 2	Paper 2	NST2BBS7	3 hours	Closed book In-person Inspira	Each paper has 4 sections. Students answer one question from each of two sections corresponding to their chosen Michaelmas Term modules.	Essay style	16%	
Pathology	Pathology Paper 3	Paper 3	NST2BBS7	3 hours	Closed book In-person Inspira	Each paper has 4 sections. Students answer two questions from each of two sections corresponding to their chosen Lent Term modules.	Essay style	16%	
Pathology	Pathology Paper 4	Paper 4	NST2BBS7	3 hours	Closed book In-person Inspira	Each paper has 4 sections. Students answer one question from each of two sections corresponding to their chosen Lent Term modules.	Essay style	16%	
Pathology	Practical/Data Handling paper			3 hours	Closed book In-person Inspira	The paper has 8 sections. Each candidate will answer four questions corresponding to the four Modules chosen by the candidate.	Short answer	11%	
PDN	Developmental Neurobiology	N1	NST2BBS_2_9 NST2BBS_138	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
PDN	Neuroscience: Circuits and Systems	N3	NST2BBS_2_18 NST2BBS_11_20 NST2BBS_10_10B NST2BBS_152 NST2ZO_N3 NST2PS_N3_B	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
PDN	Cellular and Molecular Neuroscience	N4	NST2BBS_2_12 NST2BBS_153	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
PDN	Higher Order Brain Function and Dysfunction	N6	NST2BBS_2_14 NST2BBS_11_22 NST2BBS10_11B NST2BBS_60 NST2ZO_N6 NST2PS_N6_B	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
PDN	Modulation, Plasticity and Behaviour	N9	NST2BBS_2_17	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
PDN	Cellular Physiology	P1	NST2BBS_2_1 NST2BBS_141	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
PDN	Development and Stem Cells	P2	NST2BBS_2_2 NST2BBS_142	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
PDN	Fetal and Placental Physiology	P3	NST2BBS_2_3	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
PDN	Development: Cell Differentiation and Organogenesis	P6	NST2BBS_2_5 NST2BBS_11_15 NST2ZO_ZL6	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
PDN	Pathophysiology of Cancer	P7	NST2BBS_2_6	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	

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PDN	Systems and Clinical Physiology	P8	NST2BBS_2_7 NST2BBS_143	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
PDN	Cell Assembly and Interactions	P9	NST2BBS_2_8 NST2BBS_11_16 NST2ZO_ZM6	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Pharmacology	Paper 1	1	NST2BB-8_1	3 Hours	Closed book In-person Inspira	1 section, at least 6 questions, students answer 3 questions.	Essay style	17.5% (BBS = 16%)	
Pharmacology	Paper 2	2	NST2BB-8_2	3 Hours	Closed book In-person Inspira	1 section, at least 6 questions, students answer 3 questions.	Essay style	17.5% (BBS = 16%)	
Pharmacology	Paper 3	3	NST2BB-8_3	3 Hours	Closed book In-person Inspira	1 section, at least 6 questions, students answer 3 questions.	Essay style	17.5% (BBS = 16%)	
Pharmacology	Paper 4	4	NST2BB-8_4	3 hours (plus 15mins reading time)	Closed book In-person Inspira	2 sections, each section will be split into two parts with further sub-sections. Students must answer both parts. Each sections will be worth equal marks.	Short answer	17.5% (BBS = 16%)	
Physics (Including Half-Subject)	Thermal and Statistical Physics	1/TSP	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Section A = 4 questions Section B = 2 questions Students answer all 6 questions		10%	Mathematical Formulae booklet V. 2.5
Physics (Including Half-Subject)	Relativity	2/REL	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Section A = 4 questions Section B = 2 questions Students answer all 6 questions		10%	Mathematical Formulae booklet V. 2.5
Physics (Including Half-Subject)	Physics - Advanced Quantum Physics	3/AQP	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Section A = 4 questions Section B = 2 questions Students answer all 6 questions		10%	Mathematical Formulae booklet V. 2.5
Physics (Including Half-Subject)	Optics & Electrodynamics	4/OE	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Section A = 4 questions Section B = 2 questions Students answer all 6 questions		10%	Mathematical Formulae booklet V. 2.5
Physics (Including Half-Subject)	Astro Fluid Dynamics	5/AFD	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Section A = 4 questions Section B = 2 questions Students answer all 6 questions		10%	Mathematical Formulae booklet V. 2.5
Physics (Including Half-Subject)	Particle & Nuclear Physics	6/PNP	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Section A = 4 questions Section B = 2 questions Students answer all 6 questions		10%	Mathematical Formulae booklet V. 2.5
Physics (Including Half-Subject)	Quantum Condensed Matter Physics	7/QCM	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Section A = 4 questions Section B = 2 questions Students answer all 6 questions		10%	Mathematical Formulae booklet V. 2.5
Physics (Including Half-Subject)	Soft Condensed Matter	8/SCM	NST2PC - Physical Sciences	2 Hours	Closed book In-person Hand-written	Section A = 4 questions Section B = 2 questions Students answer all 6 questions		10%	Mathematical Formulae booklet V. 2.5
Plant Sciences	Plant signalling networks in growth and development	PLM1	NST2BBS 9_1 NST2BB 144	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Plant Sciences	Microbes: Evolution, genomes and lifestyle	PLM2	NST2BBS 9_2 NST2BBS 145	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Plant Sciences	Evolution and Ecosystem Dynamics	PLM3	NST2ZO PLM3 NST2BBS 9_5 NST2BBS 11_9 NST2BBS 146	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Plant Sciences	Plant genomes and synthetic biology	PLL1	NST2BBS 9_3 NST2BBS 147	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Plant Sciences	Responses to global change	PLL2	NST2ZO ZL2 NST2BBS 9_7 NST2BB 11_11 NST2BBS 148	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Plant Sciences	Exploiting Plant Metabolism	PLL3	NST2BBS 9_4 NST2BBS 149	3 Hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	

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Psychology	Methods of Inquiry	N2PS1		3 hours	Closed book In-person Inspira	2 sections, students answer 1 question from each section	Essay style	20%	
Psychology	Cognitive and Experimental Psychology	N2PS2	PSB9	3 hours	Closed book In-person Inspira	1 section per lecture topic, each containing 3 questions. Students answer a maximum of 1 question from each section.	Essay style	20%	
Psychology	Behavioural and Cognitive Neuroscience	N2PS3	PBS10	3 hours	Closed book In-person Inspira	1 section per lecture topic, each containing 3 questions. Students answer a maximum of 1 question from each section.	Essay style	20%	
Psychology	Memory	PS2_B	NST2PDN NST2ZO	3 hours	Closed book In-person Inspira	3 sections, each containing 3 questions. Students answer 1 question from each section.	Essay style	20%	
Psychology	Brain Mechanisms of Emotional Regulation and Motivation	PS3_B	NST2PDN NST2ZO	3 hours	Closed book In-person Inspira	3 sections, each containing 3 questions. Students answer 1 question from each section.	Essay style	20%	
Zoology	Vertebrate Evolution	Paper ZM1	NST2ES/ZM1 Major: NST2BBS/11_1	3 hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Zoology	Conservation Science	Paper ZM2	Major: NST2BBS/11_2 Minor: NST2BBS/101 NST2PL/ZM2 NST2BBS/9_6	3 hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Zoology	Evolution and behaviour: Genes and individuals	Paper ZM5	Major: NST2BBS/11_5 NST2PDN/ZM5 NST2BBS/2_22 NST2PS/ZM5_B NST2BBS/10_15B	3 hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Zoology	Evolution and Comparative Anatomy of Mammals	Paper ZL1	Major: NST2BBS/11_10 Minor: NST2BBS/105	3 hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Zoology	Evolution and behaviour: Populations and societies	Paper ZL3	Major: NST2BBS/11_12 Plant Sci NST2PL/ZL3 NST2BBS/9_9 PDN: NST2PDN/ZL3 NST2BBS/2_19 Psychology: NST2PS/ZL3_B NST2BBS 10_14B	3 hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	
Zoology	Applied ecology	Paper ZL4	Major: BBS/11_13 Minor: NSTBBS/154 NST2PL/ZL4 Plants: NST2BBS/9_8	3 hours	Closed book In-person Inspira	6 questions, 3 answered	Essay style	16%	