

## Final Exam Contents Form: Semester 1 / 2024

**Subject: Foundation Mathematics 5 Code: MA30105 Class: EP M6/1-2 Teacher's Name: Keerthi Prabhakar**

Contents	Formative	Final Exam	Written Answers	Classroom Handouts	Remark
1. Arithmetic Sequences	✓	✓	✓	Class notes and Worksheets	Content might change because of time constraints.
2. Quadratic Sequences	✓	✓	✓		
3. Cubic Sequences	✓	✓	✓		
4. Word problems - Arithmetic Sequences and Series	✓	✓	✓		

Formative 2: - Quizzes - Worksheets - Tests

**Subject: Universal Mathematics 5 Code: MA30217 Class EP M6/1-2 Teacher's Name: Shiv Kumar**

Contents	Formative 2	Final Exam	Written Answers	Classroom Handouts	Remark
1. Limit of a Sequence	✓	✓	✓	Text book (Haese Mathematics 3 <sup>rd</sup> edition)  (Class Worksheets + Handouts)	Content might change because of time constraints.
2. Limits tend to infinity	✓	✓	✓		
3. Limits tends to zero	✓	✓	✓		
4. Trigonometric limits	✓	✓	✓		
5. Indefinite integration	✓	✓	✓		
6. Properties of indefinite integration	✓	✓	✓		
7. Definite integration	✓	✓	✓		
8. Properties definite integration	✓	✓	✓		
9. Application of integration	✓	✓	✓		
10. Area under curve	✓	✓	✓		
11. Area between a curve and a straight line	✓	✓	✓		

**Subject: Foundation English**

**Code: EN30105**

**Class: EP M6 1-2**

**Teacher: Josh Bolen**

<b>Final Exam Content</b>		<b>Formative 2</b>	<b>Classroom Handouts</b>	<b>Remark</b>
Multiple choice	Adjectives with prepositions Describing a table Transition words Idiomatic expressions	All	A PDF File with material to revise for the exam will be provided the week before the exam.	
Reading	IELTS Reading Questions			
Writing	IELTS Writing Task 1			

**Subject: Reading & Writing 5 Code: EN30205 Class: EP M6/1 Teacher: Joshua Bolen**

<b>Final Exam Contents</b>		<b>Formative Score</b>	<b>Classroom Handouts</b>	<b>Remark</b>
Multiple Choice Section	Linking words Subject-Verb Agreement, Verb Tenses Complex sentences, conditionals	All	Worksheets, Notebook work, Schoology. A PowerPoint presentation with material to revise for the exam will be provided the week before the exam.	
Writing Section	IELTS Task 2 Type Essay	All		

**Subject: Universal Physics 4 ST30214 Class EP: M6/1 Teacher's Name: Glenn Thomas**

<b>Contents</b>	<b>Formative 2</b>	<b>Final (Multiple choice)</b>	<b>Final (Written Questions)</b>	<b>Classroom Handouts</b>	<b>Remark</b>
1. Properties of Gases -Ideal Gas laws -Density, Volume and Pressure - $PV=nRT$ -molecular kinetic theory, $v_{rms}$ -Boltzmann constant	/	✓	✓	Worksheets, Notebooks, Virtual labs, Videos	Content might change because of time constraints.
2. Nuclear Decay <ul style="list-style-type: none"> <li>• Atomic mass, Atomic Number</li> <li>• Stability of Nucleus and Isotopes</li> <li>• Properties of alpha, beta and gamma radiation</li> <li>• Activity, decay constant and half life</li> <li>• Background radiation</li> </ul>	✓	✓	✓		
3. Nuclear Safety <ul style="list-style-type: none"> <li>• Safety in lab with radioactive material</li> <li>• Disposal of nuclear waste (LLW and HLW)</li> <li>• Futureproofing disposal sites</li> <li>• Exposure vs geography</li> </ul>	/	✓	✓		
4. Nuclear Energy <ul style="list-style-type: none"> <li>• Fission vs Fusion</li> <li>• Binding Energy per nucleon Binding Energy of nucleons</li> </ul>	/	✓	✓		

<ul style="list-style-type: none"> <li>• Mass defect and <math>E=mc^2</math></li> <li>• thermal nuclear reactors</li> <li>• Advantages/disadvantages of nuclear fusion and fission power</li> </ul>					
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Formative 2: - Projects - Labs - Class participation -Online Quizzes -Worksheets

**Subject: Universal Chemistry 4      Code: ST30234      Class EP M6/1E & 6/1H      Teacher's Name: Anumol Sunny**

	Contents	Formative 2	Final Term Questions	Classroom Handouts	Remark
1	Alcohols	√	√	Worksheets, PowerPoints, Related videos	The content might change because of time constraints.
2	Carboxylic Acids	√	√		
3	Aldehydes	√	√		
4	Ketones	√	√		
5	Acid-Base Theories	√	√		
6	Hydrogen ion and Acidity	√	√		
7	Strength of Acids and Bases	√	√		
8	Salts	√	√		

Formative: - Class Tests, Assignments, Class participation, Labs

**Subject: Universal Biology IV Code: ST30259 Class: EP M6/1E Teacher's Name: Mr. Michael Salutin**

Contents		Formative 2	Final	Classroom Handouts	Remark
1.	Ch. 17 – Cell division	✓	✓	<b>Text book</b> <b>Work Sheets</b> <b>Bitpaper</b> <b>Class Quizzes</b>	Content might change because of time constraints.
2.	Cambridge International A Level Biology Coursebook Ch. 17 Evolutionary Theories Population Genetics Factors Leading to Evolution Formation of New Species Timelines of Human Evolution Human Cultures and Survival	✓	✓		
3.	Ch. 3 – Biochemical reactions in cells	✓	✓		
4.	Ch. 4 – Transport in and out of cells	✓	✓		
5.	Ch. 5 – Gas exchange and the transport of oxygen	✓	✓		
6.	Ch. 24 Receptions and responses Responses of Unicellular Organisms and Animals Nerve Cells (Neurons) Structure of Nervous System Operation of Motor System Sense Organs	✓	✓		
7.	Ch. 27 Endocrine Glands Hormones from Important Endocrine Glands and Organs Maintaining Balance in the Body with Hormones Pheromones	✓	✓		

### วิชาภาษาไทยพื้นฐาน 5 (ท30105)

- สามัคคีเภทคำฉันท์
- การอธิบาย บรรยาย พรรณนา
- ความสัมพันธ์ระหว่างภาษากับความคิด
- การแสดงทรรศนะ โต้แย้ง และโน้มน้าวใจ
- เหตุผลกับภาษา

### วิชาสังคมศึกษา ศาสนาและวัฒนธรรมพื้นฐาน 5 (ส30105)

#### สาระที่ 4 ประวัติศาสตร์

- เวลา ยุคสมัย หลักฐาน และวิธีการทางประวัติศาสตร์
- ประวัติศาสตร์สากล
- ประวัติศาสตร์ไทย

#### สาระที่ 5 ภูมิศาสตร์

- เครื่องมือทางภูมิศาสตร์
- ทรัพยากรธรรมชาติ และสิ่งแวดล้อม
- หลักภูมิศาสตร์