

HS SCHOOL REVISION GUIDE

**ENGLISH MODERN SCHOOL
MOCK EXAM STUDY GUIDE**

18TH—26TH JANUARY 2016

AS LEVEL



HS SCHOOL REVISION GUIDE

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ARABIC 2016

SUBJECT:

AS ARABIC

TEACHER:

MR ABDULRAHMAN

EXAM DATE:

25.01.16 @ 11AM

Mock Examinations are scheduled from Monday 18 January till Tuesday 26. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects.

The exam will last for 2 hours.

TOPICS TO BE COVERED	DETAIL
القراءة	فهم المقروء . - استخراج الأفكار الرئيسة من النص . - استنتاج معاني المفردات من داخل النص . -
الضبط	الضبط الصحيح لبعض كلمات النص . -
الترجمة	ترجمة نص من اللغة العربية إلى اللغة الإنجليزية -
الكتابة	كتابة مقال . -
	Revise Past papers questions.



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ARABIC 2016

SUBJECT: AS ISLAMIC STUDIES

TEACHER: MR ABDULRAHMAN

EXAM DATE: 18.01.16@ 8AM

Mock Examinations are scheduled from Monday 18 January till Tuesday 26. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects.

The exam will last for 2 hours.

TOPICS TO BE COVERED	DETAIL
التفسير	وجوب الاعتصام صفحة رقم 34
الحديث	إتقاء الشبهات صفحة رقم 42
العقيدة	الميزان صفحة رقم 58 الحوض و الصراط صفحة رقم 65
الفقه	أحكام النسب فقه صفحة رقم 72
البحوث	العلمانية صفحة رقم 85
الاخلاق	إصلاح ذات البين صفحة رقم 104



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SCIENCE 2016

SUBJECT:

AS BIOLOGY

TEACHER:

MRS ELENA

EXAM DATE: PRACTICAL 18.01.16 @ 1PM

THEORY 26.01.15 @ 8AM

Mock Examinations are scheduled from Thursday 14 January till Tuesday 26 January 2016. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects.

The exam will last for two hours.

TOPICS TO BE COVERED	DETAIL
Unit 1 Cells and the Mitotic Cell cycle.	Section 1-Cell structure: Light and electron microscopes; Using graticules and stage micrometers to calculate magnification of drawings and measuring cells; structure and function of organelles in animals and plants; characteristics of eukaryotic and prokaryotic cells; structure of a virus. Section 5- The Mitotic cell cycle: Replication and division of nuclei and cells; behaviour of chromosomes in mitosis; stem cells; cancer.
Unit 2 Biological Molecules	Section 2-Biological molecules: Structure of carbohydrates, proteins and lipids, and their roles in living organisms; Water and living organisms; biochemical tests.
Unit 3 Cell membranes and Transport across membranes	Section 4- Cell membranes and transport: Fluid Mosaic model of membrane structure; movement of substances in and out of cells passive and active methods.
Unit 4 Enzymes	Section 3- Enzymes: Mode of action of enzymes; factors that affect enzymes; enzyme kinetics.
Unit 5 Nucleic Acids and Protein	Section 6- Nucleic acids and protein synthesis: Structure and replication of DNA; role of DNA in protein synthesis.



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HUMANITIES 2016

SUBJECT: AS BUSINESS STUDIES

TEACHER: MRS HEMA

EXAM DATE: 26.01.16@ 11AM

Mock Examinations are scheduled to be held during January 2016. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects.

The exam will last for **two hours** and will be a **70 marks paper**.

The exam will be based on a **combination of AS level Business studies:**

Paper 1-(Short Answer and Essay) and Paper 2- (Data Response)

Students will need a calculator.

Topics covered and to be included for the Mock Examination are as follows:

Unit 1 – Business and its Environment

- Enterprise
- Business Structure
- Size of Business
- Business Objectives

Stakeholders in a Business

Unit 2 – People in Organisations

- Management and leadership
- Motivation

Human Resource Management

Unit 3 – Marketing

- What is Marketing ?
- Market Research
- The Marketing Mix – Product and Price



SUBJECT: AS CHEMISTRY

TEACHER: MR SHEJILA

EXAM DATE : PRACTICAL 17.01.16 @ 1PM

THEORY 24.01.16 @ 08AM

Mock Examinations are scheduled from Thursday 14 January till Tuesday 26 January 2016. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects.

The exam will last for two hours.

TOPICS TO BE COVERED	DETAIL
UNIT 1. Atoms, molecules and stoichiometry	Relative masses of atoms and molecules, The mole, the Avogadro constant, The determination of relative atomic masses, A_r , and relative molecular masses, M_r , from mass spectra, The calculation of empirical, and molecular formulae, Reacting masses and volumes (of solutions and gases).
UNIT 2. Atomic structure	The nucleus of the atom: neutrons and protons, isotopes, proton and nucleon numbers, Electrons: electronic energy levels, ionisation energies, atomic orbitals, extranuclear structure.
UNIT 3. Chemical bonding	Ionic (electrovalent) bonding, Covalent bonding and coordinate (dative covalent) bonding, The shapes of simple molecules, Bond energies, bond lengths and bond polarities, Intermolecular forces including hydrogen bonding, Metallic bonding.
UNIT 5. Chemical energetics	Enthalpy changes: ΔH of formation, combustion, hydration, solution, neutralisation and atomisation; bond energy; Hess' Law; enthalpy cycles.
UNIT 10.1 Introductory organic chemistry	Structural formulae, Displayed formulae, Skeletal formulae, Geometrical isomers, Optical Isomers.
UNIT 10.2 Hydrocarbons	Alkanes, Alkenes, Free-radical reactions, Crude oil and 'cracking', Addition and oxidation reactions.

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HUMANITIES 2016

SUBJECT: AS ECONOMICS
TEACHER: MR JAMES
EXAM DATE: 24.01.16 @ 11AM

Mock Examinations are scheduled from Monday 18 January 2016. To assist students prepare for these examinations a revision guide has been assembled to ensure that all students are aware of the work to be covered for the examination in this subject.

TOPICS TO BE COVERED	DETAIL
<p><u>Economics</u></p> <p>Scarcity, choice and opportunity cost</p> <p>Positive and normative statements</p> <p>Factors of production</p> <p>Resource allocation in different economic systems and issues of transition</p> <p>Production possibility curves</p> <p>Money</p> <p>Classification of goods and services</p> <p>Demand and supply curves</p> <p>Price elasticity, income elasticity and cross-elasticities of demand</p> <p>Price elasticity of supply</p> <p>Interaction of demand and supply</p> <p>Market equilibrium and disequilibrium</p> <p>Consumer and producer surplus</p> <p>Maximum and minimum prices</p> <p>Taxes (direct and indirect)</p> <p>Subsidies</p> <p>Transfer payments</p> <p>Direct provision of goods and services</p> <p>Nationalisation and privatisation</p>	<p>All notes in notebooks to be learnt – as well as Unit 1 to 3 from text-book:</p> <p>‘Cambridge International AS & A Level Economics Coursebook (Third Edition) Colin Bamford and Susan Grant’.</p>



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CREATIVE ARTS 2016

SUBJECT: AS APPLIED ICT

TEACHER: MR ARTHUR

EXAM DATE: THEORY 20.01.16 @ 8AM

PRACTICAL 20.01.16 @ 11AM

The AS level Applied ICT mock exams will be done as follows: there will be a theory paper and a practical paper written on 20 Jan 2016.

The units covered in these exams will be as follows:

Theory Paper
Chapter 1: ICT systems
Chapter 2: How Organisations use ICT 1
Chapter 3: The impact of ICT on Society 1

Practical Paper
Chapter 9: Communication
Chapter 10: Document and presentation production
Chapter 11: Databases and Charts
Chapter 12: Integration
Chapter 13: Output data 1



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MATH 2016

SUBJECT: AS MECHANICS MATHEMATICS

TEACHER:

MS NAJAT

EXAM DATE:

21.01.16@ 11 AM

Mock Examinations are scheduled from Monday 18 January to Tuesday 26 January, 2016. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects.

The exam will last for two (2) hours.

TOPICS TO BE COVERED	DETAIL
Chapter 1: Vectors	All the notes in the copy book, quizzes and the unit tests.
Chapter2: Motion	All the notes in the copy book, quizzes and the unit tests.
Chapter3: Constant accerleration	All the notes in the copy book, quizzes and the unit tests.
Chapter4: Force	All the notes in the copy book, quizzes and the unit tests.
Chapter5: Newton's laws of motion	All the notes in the copy book, quizzes and the unit tests.
Chapter6: Forces in equilibrium, friction	All the notes in the copy book, quizzes and the unit tests.
Chapter7: Work and power	All the notes in the copy book, quizzes and the unit tests.
	Revise Past papers questions.



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MATH 2016

SUBJECT: AS STATISTICS MATHEMATICS

TEACHER:

MS NAJAT

EXAM DATE:

21.01.16@ 11 AM

Mock Examinations are scheduled from Monday 18 January till Tuesday 26. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects.

The exam will last for one and a half hour

TOPICS TO BE COVERED	DETAIL
Chapter 1: Representation of data	All the notes in the copy book, quizzes and the unit tests.
Chapter2: Permutations and Combinations	All the notes in the copy book, quizzes and the unit tests.
Chapter3: Probability	All the notes in the copy book, quizzes and the unit tests.
Chapter4: Discrete random variables	All the notes in the copy book, quizzes and the unit tests.
	Revise Past papers questions.



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MATH 2016

SUBJECT: AS PURE MATHEMATICS

TEACHER: MS NAJAT

MS JABEEN

EXAM DATE: 21.01.16 @ 08 AM

Mock Examinations are scheduled from Monday 18 January till Tuesday 26. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects.

The exam will last for 2 Hrs

TOPICS TO BE COVERED	DETAIL
Chapter 1: Quadratic equations	All the notes in the copy book, quizzes and the unit tests.
Chapter2: Coordinate geometry1	All the notes in the copy book, quizzes and the unit tests.
Chapter3: Coordinate geometry2	All the notes in the copy book, quizzes and the unit tests.
Chapter5: Functions	All the notes in the copy book, quizzes and the unit tests.
Chapter6: Inequalities	All the notes in the copy book, quizzes and the unit tests.
Chapter7: Differentiation	All the notes in the copy book, quizzes and the unit tests.
Chapter8: Tangents, normals and stationary values	All the notes in the copy book, quizzes and the unit tests.
Chapter 12: Integration	All the notes in the copy book, quizzes and the unit tests. Exercise up to and including 12D from text book.
	Revise Past papers questions.



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SCIENCE 2016

SUBJECT: AS PHYSICS

TEACHER: MR LAWRENCE

EXAM DATE : PRACTICAL 14.01.16 @11AM

THEORY 25.01.16 @ 08AM

Mock Examinations are scheduled from Thursday 14 January till Tuesday 26 January 2016. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects.

The exam will last for two hours.

TOPICS TO BE COVERED	DETAIL
Unit 1: Physical quantities and measurement techniques.	Measuring techniques, collecting data, accuracy & precision, random & systematic, uncertainties, data presentations and analysis.
UNIT 2: Kinematics	Kinematics, distance and time, average speed/velocity, instantaneous velocity, vectors. Accelerated motion, acceleration and deceleration, equations of motion, motion graphs, free-fall, effect of air resistance, 2-dimensional motion.
UNIT 3: Dynamics	Units of measurement, gravity, mass & weight, understanding forces & Newton's Laws of motion.
UNIT 4: Forces and Turning Effect.	Resultant vectors, moments of force and equilibrium, couples and torques, momentum and collisions
UNIT 5: Work, energy	Work done by a force, GPE and KE, conservation of energy, work done by a gas, power



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HUMANITIES 2016

SUBJECT: AS GENERAL PAPER

TEACHER: MR ROB

EXAM DATE: 24.01.16@ 11AM

Mock Examinations are scheduled from Monday 18 January 2016. To assist students prepare for these examinations the teacher has drawn up a Revision Guide to ensure that all students are aware of the work to be covered for the examination in this subject.

Students will write two (2) essays of 600 words each.

The exam for this subject will last for 120 minutes **(100 marks)**

TOPICS TO BE COVERED

Section 1: Historical, social, economic, political and philosophical topics Possible areas for consideration might include: • The role of history and war; terrorism. • The role of the individual in society – the family, marriage, peer pressure, class. • Cultural changes – youth and drug culture. • Education and welfare. • Sport, leisure, international competition. • Wealth; changes in work practice. • The importance and impact of tourism on a country – implications for the economy, employment, public transport, environmental concerns. • The provision and politics of aid. • The State and its institutions; development of State, democracy, post-imperialism, nationalism. • Minority groups, pressure groups. • Freedom of speech, action, thought. • Judiciary. • Matters of conscience, faith, tolerance, equality, opportunity. • Corruption.

Section 2: Science, including its history, philosophy, general principles and applications; environmental issues; mathematical topics Possible areas for consideration might include: • Medical dilemmas and issues of research and ethics; concept of progress in science. • Drug manufacture and provision. • Diet, health education. • Old and new industries. • Spin-offs from space industry; weaponry. • Information and communications technology; the Internet. • Environmental concerns; renewable energy resources; climate change. • Migration; population dynamics. • Feeding the global population; farming techniques for the twenty-first century. • Public transport and travel. • The uses and applications of mathematics in everyday life. Description of components 10 Cambridge International AS Level General Paper 8004. Syllabus for examination in 2016.

Section 3: Literature and language, arts and crafts Possible areas for consideration might include: • Literature, biography, diary, science fiction. • Language – heritage, tradition, dialect. • The global media – tv, radio, satellite; influence and controls; effects on lifestyle, culture and habits; cultural dilution and diversification; advertising; role models. • Censorship; privacy; the right to know; freedom of the press, etc. uses and abuses. • Traditional arts and crafts; creativity; national heritage/preservation; effects of tourism. • Architecture; painting; fashion; photography; sculpture; music; heritage.



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ENGLISH 2016

SUBJECT: AS ENGLISH
TEACHER: MRS DANIELA
EXAM DATE: PAPER 1 19.01.16 @ 08AM
PAPER 2 19.01.16 @ 11AM

Mock Examinations are scheduled from Thursday 17 January till Tuesday 26 January 2016. To assist students prepare for these examinations the teachers have drawn up Revision Guides to ensure that all students are aware of the work to be covered for the examinations in all subjects.

The exam will last two hours for Paper 1 and two hours for Paper 2.

TOPICS TO BE COVERED	DETAIL
PAPER 1 Passages for comment UNITS 1-12	Genre, writer's purpose and tone Language features: vocabulary, figures of speech, structure Writing for a particular purpose and audience Short passages for comment Directed writing tasks for short and long passages for comment Directed writing before commentary Longer passages for comment
PAPER 2 Composition UNITS 13-14 UNITS 19-22	Narrative/ Descriptive/ Imaginative writing Discursive and argumentative writing

