

HS SCHOOL REVISION GUIDE

**ENGLISH MODERN SCHOOL
MOCK EXAM STUDY GUIDE**

15TH - 26TH JANUARY 2017

AS LEVEL



HS SCHOOL REVISION GUIDE

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ARABIC 2017

SUBJECT:

AS ARABIC

TEACHER:

MR ABDULRAHMAN

EXAM DATE:

05.06.17 @ 11AM

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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ISLAMIC 2017

SUBJECT: AS ISLAMIC STUDIES

TEACHER: MR ABDULRAHMAN

EXAM DATE: 16.01.17 @ L2&3

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.

AS ENGLISH ISLAMIC STUDIES:

Topics to be covered	detail
The holy Quran	The Holy Quran
The holy Quran	Scientific miracles in the holy Quran
Biography	prophet Mohammad
Hadeeth	the importance of Sunnah
Islamic faith	Islam and five Pillers
jurisprudence	Alzakaat
Islamic faith	belief in the divine decree
Manners	women and their rights in Islam

AS Islamic studies (Arabic)

2016-2017

Topics to be covered	detail
تفسير	وجوب الاعتصام
حديث	اتقاء الشبهات (حفظ)
عقيدة	الميزان
فقه	أحكام النسب
تفسير	شبهات اليهود
سيرة و بحوث إسلامية	السيدة عائشة



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SCIENCE 2017

SUBJECT:

AS BIOLOGY

TEACHER:

MRS ELENA

EXAM DATE:

PRACTICAL 16.01.17 @ 13:00

THEORY 06.02.17 @ 8AM

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 Biological Molecules	Structure of carbohydrates, proteins and lipids, and their roles in living organisms; Water and living organisms; biochemical tests.
Unit 3 Enzymes	Mode of action of enzymes; factors that affect enzymes; enzyme kinetics.
Unit 4 Transport in plants and animals	Transport in plants: The need for a transport system in flowering plants; structure of transport tissue; transport mechanisms. Transport in mammals: The circulatory system; structure and function of blood, blood vessels and the heart; role of haemoglobin; control and co-ordination of the cardiac cycle.
Unit 5 Gas exchange in mammals	Gas exchange and smoking: The gas exchange system; smoking and smoking-related diseases
Unit 6 Cells	Light and electron microscopes; Using grati- cules and stage micrometers to calculate mag- nification of drawings and measuring cells; structure and function of organelles in animals and plants; characteristics of eukaryotic and prokaryotic cells; structure of a virus.



SUBJECT: AS BUSINESS STUDIES

TEACHER: MRS HEMA

EXAM DATE: 23.01.17@ 11AM

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:

MRS SHEJILA

EXAM DATE :

PRACTICAL 18.01.17 @ 13:00

THEORY

23.01.17 @ 08AM

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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CREATIVE ARTS 2017

SUBJECT: AS APPLIED ICT
TEACHER: MR ARTHUR
EXAM DATE: THEORY 24.01.17 @ 11AM
PRACTICAL 06.02.01.17 @ 11AM

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

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 11: Data Handling 1 – Databases and Charts
Chapter 14: Data Handling 2 – Spreadsheets



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MATHS 2017

SUBJECT: AS MECHANICS MATHEMATICS
TEACHER: MS JABEEN
EXAM DATE 22.01.17@ 11 AM

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 90 minutes

TOPICS TO BE COVERED	DETAIL
Chapter 1: Vectors	Study notes in books and questions given during assessments Revise past paper exams questions
Chapter 2: Motion	
Chapter 3: Constant acceleration	
Chapter 4: Force	
Chapter 5: Newton's laws of motion	



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MATHS

SUBJECT: AS STATISTICS MATHEMATICS

TEACHER: MS JABEEN

EXAM DATE: 22.01.17@ 11 AM

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	Study notes in books and questions given in assessments. Revise past paper exams questions
Chapter2: Permutations and Combinations	
Chapter3: Probability	



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MATH 2017

SUBJECT: AS PURE MATHEMATICS

TEACHER: MS JABEEN

EXAM DATE: 22.01.17 @ 08 AM

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	Study notes in books and questions given in assessments. Revise past paper exams questions
Chapter2: Coordinate geometry1	
Chapter3: Coordinate geometry2	
Chapter5: Functions	
Chapter6: Inequalities	
Chapter7: Differentiation	
Chapter8: Tangents, normals and stationary values	
Chapter 12: Integration	



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SCIENCE 2017

SUBJECT: AS PHYSICS

TEACHER: MR LAWRENCE

EXAM DATE : PRACTICAL 15.01.17 @ 13:00

THEORY 05.02.17 @ 08AM

IGCSE REPEAT 05.02.17 @ 08AM

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., 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
UNIT 6: Matter	Density, pressure, tensile and compressive forces, stretching materials & Hooke's law, describing deformation, strain, stress & Young's Modulus, and strain energy.
Unit 7 Electric fields	Attraction and repulsion, electric field, electric fields strength, uniform fields, force on charge placed in a electric field.



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HUMANITIES 2017

SUBJECT: AS GENERAL PAPER

TEACHER: MRS DANIELA

EXAM DATE: 24.01.17@ 08AM

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 2017

SUBJECT: AS ENGLISH
TEACHER: MRS ANGELA
EXAM DATE: PAPER 1 19.01.17 @ 08AM
PAPER 2 19.01.17 @ 11AM

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	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	Narrative/ Descriptive/ Imaginative writing Discursive and argumentative writing

