

Teacher Resource Bank

GCE General Studies A
GENA2 Exemplar Scripts



GCE General Studies A

GENA2 Exemplar Scripts

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Introduction

This booklet contains a number of marked responses to the January 2009 GENA2 written questions.

The material demonstrates performance at different levels and is provided to give an insight into how examiners apply the published mark schemes. In doing so, it is hoped that teachers and students will be able to understand how some answers score highly whilst others struggle to gain many marks.

For GENA2 the presentation of the material is in three sections:

- The first section contains 'model marked scripts', annotated by a senior examiner to indicate strengths, weaknesses and reasons for awarding a particular mark.
- The second section contains responses without any examiner annotation, so that teachers and/or students can independently assess the quality of an answer against the separately published mark scheme.
- The third section contains senior examiner commentaries on the scripts in section 2, to enable comparison of teacher/candidate assessments against the standards set by AQA senior examiners.

How might the material be best used?

It is suggested that the model marked scripts are studied first before moving to the self-assessment exercise in sections 2 and 3.

When considering the material, teachers or students may wish to think about the following:

- What are the key words in the question?
- To what extent has the response addressed these?
- What are the strengths of a particular answer?
- What are the weaknesses?
- How might the mark be improved?
- Is the length of the answer appropriate, given the total number of marks available?
- When comparing responses, which is better, by how much and why?

It is hoped that by using the materials in this way teachers and students will be able to improve their exam preparation by gaining a valuable insight into what senior examiners are looking for when setting and marking questions.

Accessing the question paper and mark scheme

The January 2009 GENA2 question papers and mark schemes should be available on AQA's website from October 2009 (see web page http://web.aqa.org.uk/admin/qp-ms_library.php).

Printed versions can also be bought from AQA publications (<http://shop.aqa.org.uk>).

Teachers should also be able to access the materials via e-AQA, if they have registered for this secure service.

Any comments on this material?

If you have any comments on this exemplar material, please forward them to the AQA General Studies Mailbox (generalstudies@aqa.org.uk).

**4 PAGE
ANSWER BOOK**

GCSE, GCE, VCE and GNVQ Examining Bodies

For examiner's use
16
Examiner's initials MC

**GENA2 Section B
Model Marked Script 1**

Question number	Mark
2a	9
2b	7
Total	16

- Use blue or black ink or ball-point pen.
- Write the information required in the spaces above.
- Use both sides of the paper.
- Write the question number in the left-hand margin.
- Rule a line across the page after each answer.
- Do all your rough work in this answer book and cross through any work you do not want marked. Do not tear out any part of this book. All work must be handed in.
- Write the numbers of the questions you answer in the order attempted in the left-hand column of the boxes opposite.
- Check that you have written the information required on each additional sheet used and have attached each sheet to this book.

Write here how many additional sheets you have used (if any).

Question number

2a	By using the use of water transport it improves a company's environmental standing as it mainly shows society and other larger companies that you are trying to find new, alternative and greener ways of transporting their goods up and down the country to their stores. As by doing this they are showing that they are actually trying to think about the impact they actually do
----	--

Leave blank

AB04

Question number

Leave blank

have on the environment, when using the road ~~transport~~ to transport all their goods. As by using water transport, they are saving over more than 2 million road miles each year, which benefits both ASDA, as they are saving money from not having to pay for all the petrol/diesel their lorries need, and benefiting the environment by not polluting it as much with the CO₂ from their lorries. Plus this also helps ASDA's environmental standing as it is showing that they are thinking of new ways to use the natural resources of Britain such as there more than 2000 miles of rivers, estuaries and canals and 11 072 miles of coastline, and how they are even thinking about how much of impact using road to transport their goods has on the environment because of the amount of pollution they are putting into the atmosphere from their lorries.

Overall, I think ~~that~~ ^{that} by using water transport, it is a great way of improving a company's environmental standing as you are showing you are coming up with alternate ways to transport your goods, ~~that~~ ^{which is better} that also has a lower impact on the environment, plus this also may encourage other companies to ~~be~~ ^{be} by and become more environmentally friendly. Some valid points, but

1. limited & some repetition

Source

Source

2PT.

concl

2 mid L2

Ques number	Leave blank
2b INTRO	<p>When using to the road, rail, and air to transport freight you are faced with issues which can be split in social and economic. ✓</p>
? ?	<p>Firstly when using the <u>road</u> to transport freight the social issues that you may face is that you sometimes cannot find people to be the driver as they are <u>reluctant to drive for some so many miles up and down the country</u>, plus there are also lots laws about how long a driver is allowed to drive for before having to have a break, as these hours are monitored by tachographs which leads me on to the economic problems as by having a certain amount of time that a driver can drive to this wastes time, and means you are also losing money. Plus by using the road, if you have to pay for petrol and diesel which is rather expensive, ^{fuel cost} especially when the prices keep rising. ✓</p>
	<p>As well as road, <u>air</u> also has a transport also has its issues, as as it is very expensive to use air transport especially for the <u>fuel</u>, and to <u>maintain</u> the aircraft. Plus the social problems that it brings is that you cannot have just one person employed, there has to be a team to ensure the aircraft is working correctly, and that all the cargo has been loaded properly and safely. which will also be very time consuming. ✓</p> <p>Finally, <u>rail</u> transportation does to have</p>

Question number

Leave blank

have social and economic issues, but I would say it would be the best form of transport out of the three, as it is not faster, ~~longer~~ as it cannot get stuck in traffic unlike when using road transport. Plus there are train links all throughout the country meaning the freight could get to where it needed to be.

However, the ^{economic} ~~social~~ issues of rail can be that ~~some people~~ again the amount of fuel needed can be quite expensive, and trains do also need to be maintained in order to work properly. The social issue could be that it is not a desired job to work as a train driver, so ~~many~~ not many people may apply for this job.

considers road, rail & air, but valid points mainly on cost.

Level 1/2 borderline

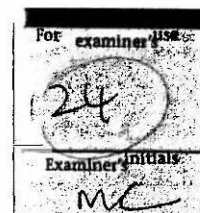
7

9 + 7 =

16

4 PAGE ANSWER BOOK

GCSE, GCE, VCE and GNVQ Examining Bodies



GENA2 Section B Model Marked Script 2

- Use blue or black ink or ball-point pen.
- Write the information required in the spaces above.
- Use both sides of the paper.
- Write the question number in the left-hand margin.
- Rule a line across the page after each answer.
- Do all your rough work in this answer book and cross through any work you do not want marked. Do not tear out any part of this book. All work must be handed in.
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- Check that you have written the information required on each additional sheet used and have attached each sheet to this book.

Question number	Mark
2a.	10
2b	14
Total	24

Write here how many additional sheets you have used (if any).

Question number

2a.	By using water transport instead of road transport Asda will have gained many supporters from the public and green campaigners. This is because the efficiency of water transport is a lot better than road travel.
✓	Firstly boats are a lot larger than lorries. This may seem obvious but it means a lot more of ASDA's products can be delivered in one load. Obviously a large ship will be more polluting than a lorry yet if you work out the amount of lorries and miles it would take to deliver them

Leave blank

AB04

Question
numberLeave
blank

	it'll work out to be better.
✓	The companies' environmental standing will go up as ASDA will be <u>reducing the amount of damage they will be doing to the environment</u> making it a better much more greener company. Creating a <u>better reputation</u> of the company.
limits	However it will not go as high as it could as <u>still</u> a lot of the companies' products will still be transported <u>using lorries</u> . as it states that <u>only 'non-food imports'</u> will be shipped. By not shipping all products the company's environmental standing will not increase to its full potential but will still increase.
✓	The <u>lorries</u> that deliver from the port to the store will now only have to travel a much smaller amount ^{increasing} <u>lowering</u> the environmental standing. And there won't be that many as there there is a large storage unit and the demand for non-food items from ASDA I'm presuming is lower than the demand for food.
✓	As there is a <u>large network of water accessible places</u> it is not only <u>Teasport</u> that they can deliver to but all over the country <u>lowering the company's carbon footprint</u> and increasing its environmental standing. It also makes it a lot easier to deliver to <u>foreign</u> countries if that's a service they provide.
conclus.	<u>Overall</u> by using water transport it has improved ASDA's environmental standing a great deal yet it could be improved a lot more. <u>Some valid points. Level 2</u>
noise	b. The <u>social issues</u> of that affect the transport of freight by <u>road</u> is are that people often find that road transport is as a bad way to move products as it <u>isn't a green</u> method. It also happens at <u>unsociable hours of the day</u> so can <u>disturb</u> those living near a main road or supermarket. Yet traveling by road is <u>quite quick</u> in

10

Question
numberLeave
blank

the UK and products can be delivered by the next day making it a good choice for those who sell food.

Economically the road does cost a lot as you have your initial costs of buying the lorries and then the continual cost of filling them with expensive petrol. It may also prevent some customers buying products if they think it has a large carbon-footprint. This would lose you sales. ethical customers

The social advantages of using rail are that it is quick and easy. Most places with a supermarket have a train station nearby making it a useful way of moving products. Also some customers may feel it is a greener transport. The social disadvantages of using rail is that it is very loud so those who live near a railway wouldn't want the trains all through the night.

The economic advantages of using rail is that ~~it is~~ relatively cheap advertising on the sides of trains is not needed so money is saved. Also with trains being longer than lorries you can fit more on and only require one person to drive and a few to unload and load therefore you save money on wages. The economic disadvantages is relatively expensive compared to the cost of road travel.

The social advantages of using air is that once the planes are up they don't make much noise. You can also export and import easily with air whereas this is nearly impossible with other modes of transport. The social disadvantages are that it is loud when taking off and landing and many customers will be deterred if they know their food/product ~~is from~~ has travelled by plane as it ethical customers

3

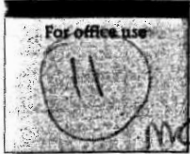
Question number

Leave blank

	is environmentally unfriendly.	
?	The economic advantages of air are that advertising again isn't needed and staff is low resulting in fewer payouts. The economic disadvantages are that airplanes are very expensive to buy or hire and the cost of continuously fueling it would cost a lot just for a business to deliver freight around the UK. If it were for exports and imports it may be useful.	
✓	Overall I think rail is the most useful yet road should be used for short distances or if a company has a limited budget.	
	well structured, a range of social & economic issues.	
	level 3	14
	10 + 14	
	=	24

**4 PAGE
ANSWER BOOK**

GCSE and GCE Examining Bodies



**GENA2 Section B
Model Marked Script 3**

Question number	Mark
3a	7
3b	4
Total	11

- Use blue or black ink or ball-point pen.
- Write the information required in the spaces above.
- Use both sides of the paper.
- Write the question number in the left-hand margin.
- Rule a line across the page after each answer.
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Write here how many supplementary sheets you have used (if any)

Question number

3a	The main issue that is presented by the about the use of mobile phones is that they are more likely to cause health and safety problems to children from birth to the age of two. Researchers have found the that the most sensitive time a child could produce health problems relating to the head is between

Leave blank

AB4

Question number		Leave blank
age	<p>the ages of 0 and 2 and this could be a time where the radio frequency waves could potentially create a help health risk for these infants.</p>	
✓	<p>Many scientists have been researching into the health and safety issues regarding mobile phones. However this has not actually been any data that can suggest they are a harm to somebody's health.</p>	
✓	<p>Also the location of phone masts has been investigated over alleged allegations they as well as mobile phone could cause a threat to people's health. But once again there is no scientific evidence that suggests phone masts could cause harm.</p>	
masts	<p>The issue with mobile phones is the radio frequency waves that they give off, stronger when making and receiving text messages and calls. Although this seems to pose as a threat it can not do any damage, maybe unless it under the influence of the rays on a constant basis which is where the theory of the phone masts come in if they are near a wide community</p>	
✓		

Question number		Leave blank
REP	<p>where a large population of people live. However this still has not been scientifically proven as a major threat for people that live near to them.</p>	
REP	<p>However although there is no scientific evidence to prove mobile phones are a threat the UK and Sweden recommend precautions to be taken for example minimising the usage of mobile phones and only make calls when it is essential, also, to minimise the exposure to the rays for by using technology such as hands free devices.</p>	
CONCL	<p>Although concerns are rising there is still no scientific answers to why there is such a growing concern, largely from ^{source}; repetition - just into L2</p>	7
INTRO	<p>3b Technology uses a wide range of devices some which are safe and can be used by anyone but some are the unsafe and use hazardous chemicals.</p> <p>However all technology according to scientists, politicians and others should be used with precautionary approach.</p> <p>All electrical products</p>	

Question number

Leave blank

? pose a threat whether it is just the wires in a plug for instance you could get electrocuted. ~~or~~ also the issue with mobile phone could be raised, the growing concern about whether the RF waves cause any health problems people still take a precautionary approach.

✓ *concern* I think that it is a good idea that scientists and politicians are taking this approach because although these technology devices may not scientifically ~~have~~ been proved to be dangerous people should still take extra caution.

limited content, no analysis or discussion level 1

4

$7 + 4 =$

11

4 PAGE ANSWER BOOK

GCSE, GCE, VCE and GNVQ Examining Bodies

For examiner's use
 (31)
 Examiner's Initials
 MC

**GENA2 Section B
 Model Marked Script 4**

Question number	Mark
3a	13
3b	18
Total	31

- Use blue or black ink or ball-point pen.
- Write the information required in the spaces above.
- Use both sides of the paper.
- Write the question number in the left-hand margin.
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Write here how many additional sheets you have used (if any) **1**

Question number

3a Plan: children → more popular with phones

- longer use - radio waves ~~more still cancer?~~
- phone masts near schools → no evidence
- social - used in public, can be seen as rude
- restrictions - in Spain, as young as 10, theft
- drowning

It is common knowledge that most people in our society have a mobile phone, and, there are many children - some as

Leave blank

AB04

Question number

radiation
cancer
mastrs.
lack
of
evidence
driving

young as four - have a mobile of their own. As with all new technology, new problems concerning phones have arisen as of late and most are brought into view without scientific findings to support concerns. For example, mobiles operate by using radiation waves to connect to a network, and many parents fear that holding a phone to a child's head could cause a form of brain cancer. Similarly, the construction of mobile phone masts near places full of children, such as schools or playgrounds, have raised the issue of whether being constantly in a cellular network is good for the welfare of the population. However, as mentioned previously, there are no scientific findings which give either of these worries any realistic backing for further investigation.

Some people also consider the use of phones whilst driving as a much more serious concern. Mobiles are often classed as a form of distraction by several environments (such as offices and classrooms) but using them in the car is entirely different. Over the last few years, the number of fatalities due to drivers using their phones just before a crash has significantly risen, and after findings were published legislation has been passed to ban this practice by enforcing hands-free kits as the norm today. In some countries, hands-free is used as a precaution to minimise problems caused by phones.

Finally, we must consider the social effects due to mobile phones. On one hand, answering a mobile phone in a public place can be seen as rude due to a lack of respect for other passengers or people - this is particularly relevant, as

1
t

good
point

Question number

addiction ✓ young people use their phones like boomboxes were in the 80s (to play loud music). On the other hand, the most extreme social effect is addiction, and this has even been seen in the world of mobile phones. In Spain, children as young as ten have been sent to rehab in order to overcome mobile phone addiction, and there have even been reports that the patients have stolen other people's phones in order to use them. wide range of points - well organised & well

(3b) Precautionary → safety's priority written science • must test on smaller forms before humans - however, no occupying human testing
 • ambition can be started / limited by ~~large~~ approach.
 government • regulate, prevent technology - independent ~~test~~?

definition ✓ Taking a precautionary approach to technology means we must wait to see if they are safe before full usage; but if this became the norm, what obligations would people have to it? The scientists behind these discoveries and inventions would firstly find it difficult to find a market for their products, if every potential customer decided to wait and see - the money after a lucrative deal would barely cover the costs required to test the safety of the new technology, resulting in no gain for the scientists.

Question number		Leav blank
testing	<p>Therefore, if inventors and scientists have no full motive to invent, this would limit their <u>creativity and ambition</u>, <u>slowing down the rate of development</u>. Another <u>obligation</u> would be to <u>test any technology as fully as possible</u> - for example, if the mobile was developed through a <u>precautionary approach</u>, it would have been <u>tested over a potential life-time of five to ten years</u>. It would have to be <u>tested on all sorts of animals</u>, and eventually would lead to <u>human testing</u>, so I believe that there would be <u>controversy around this obligation if released onto our society today</u>.</p>	
role of govt	<p>The <u>government</u> would also have obligations in a society <u>governed by the precautionary approach</u> - firstly, before <u>any form of technology would be made widely available</u>, it would have to be <u>moderated by the government</u>. This would be in the form of an <u>independent board of scientists to veto the idea before allowing to be commercialised</u> - however, a <u>possible flaw</u> is that the board may decide to <u>deauthorize an innovation that could improve lives across the world</u>. If <u>this happens</u>, we could experience a <u>slow development of technology</u> as stated before; another problem could be that, in the current state of finance, <u>bribes could be made in order to accept an ethically unsuitable technology</u> or to <u>reject a genuinely good beneficial idea</u>.</p>	
slowing dev. of technology	<p>Another part of society which would have obligations in taking this approach would be <u>doctors</u> - specifically if they were given a <u>drug which had been recently developed</u>. The doctor in question would have to decide whether to <u>risk serious side effects upon administering the drug</u>, or to <u>prolong a patient's suffering until the drug was fully classified as safe</u>. <u>Moral implications of the decision would be difficult for both choices</u>, but if either choice</p>	
potential security		

ADDITIONAL ANSWER SHEET

GCSE, GCE, VCE and GNVQ Examining Bodies

Examining body
Candidate name
Paper reference

Question number

	<p>resulted in the death of a patient, it defeats the point of doctors; that is, to swear by the Hippocratic oath and to save as many lives as possible.</p> <p>Finally, the ordinary person would have obligations as well; for instance, they would have to minimise the risks associated with any activity. Any phonecalls would be made hands-free, all calls would only be essential and no children would use phones. This could be deemed as impractical and limited, in that a person is restricted to "playing it safe" with any technological development, and to conclude I believe that a precautionary approach to technology is a bad idea.</p> <p>I understand that there are risks associated with untested inventions, and many people prefer to playing safe in the current times; however, technology will become skilled if we cannot access its true potential. Without risks or the technology we could have is limitless, as it is never fully predictable what we as a society may have in ten or twenty years time - if we risk a few small things, we could stand to gain many, many more.</p> <p>wide ranging discussion, a mature and thoughtful conclusion</p>	<p>Leave blank</p>
	<p>higher Level 3</p>	<p>18</p>
	<p>13 + 18 =</p>	<p>31</p>

ASL1

4 PAGE ANSWER BOOK

GCSE, GCE, VCE and GNVQ Examining Bodies

For Examiner's Use
Examiner's Initials

GENA2 Section B Model Marked Script 5

Question number	Mark
4a	12
4b	9
Total	21

- Use blue or black ink or ball-point pen.
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- Use both sides of the paper.
- Write the question number in the left-hand margin.
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Write here how many additional sheets you have used (if any).

possible attitude
~~of health~~

Question number	<p>way perceive yourself storing</p> <p>4a In many ways good health is due to how healthy the inside of the individual's body is. In order to be healthy the individual would have to have a <u>positive mental attitude</u> to what they consume each day and the amount of physical exercise they do. To have a <u>balanced diet</u> it is essential you follow the <u>recommended daily allowance</u> the government has for developed which contains how many calories, vitamins and minerals and basic <u>nutrients</u> you need in your body in order for it to <u>function efficiently</u>. In order to follow</p>
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Hand functioning

Leave blank

AB04

Question number

Leave blank

this food guide in order to prevent ^{developing} ~~base~~ extreme
 illnesses such as bulimia, anorexia or obesity which is
~~increasing in our~~ ^{increasing in our} country - in order to prevent this you
 must be happy with yourself and lifestyle - In many ways
 exercise can help you become more physically fit but can
 also help you become less stressed because of the slow release
 of endorphins in the body. Potentially your BMI can
 depend on where you have been brought up and whether
 you have been educated or are aware of nutrients you should
 consume each day - If you are not educated you may not
 be aware of good fats (unsaturated) and bad fats (saturated)
 that are mainly found in processed foods which can raise
 blood cholesterol and result in a heart attack.
 However, your family's income or the individual's
 income will determine how much healthy food you can buy
 as vegetables tend to be more expensive. Your health also
 depends on your background as this can often influence an
 individual's behaviour and habits such as underage drinking.
 Underage drinking can be detrimental to your health as
 it can affect your liver and lead to health problems, it
 also often takes away control of the body which puts women
 especially at more risks as they could be attacked or raped -
 (sexually transmitted diseases are spreading fast especially
 HIV.)
 Smoking also shortens life expectancy by targeting the
 heart. Although smoking has been proved to have risks and
 side effects such as yellow teeth and heart attacks many
 people are become addicted to the nicotine and find it
 difficult to quit.
 Drugs can also be a major problems and can cause
 death, other symptoms of head aches and withdrawal
 symptoms because brain stigmas start to change.

exercise

social factors

-rel?

alcohol

Tobacco

lungs?

Quest number	concepts	Leave blank
	<p>Overall, for an individual to have good health they must have a positive mental attitude to staying away from products that are available that are bad for your health such as cigarettes and processed foods. You must also try to follow <u>FA</u> and exercise regularly, if Britain stands any chance of tackling obesity. Fair range covered, tho' not esp. well organised. upper 12</p>	12
not rec. of rec. question	<p>B. In countries such as <u>Africa</u> many people are malnourished which is only happening because of the where they live. In certain countries they do not have as much money for education of food which results in malnutrition and unemployment. The two problems are closely linked together so; if the people were given ^{a good} education they would then earn money from a job. The money could then go towards feeding their families.</p>	
waring	<p>Another problem that causes inequalities in certain countries is their <u>houses</u>. Many people do not have shelter and because of hot climate water supply is small due to arid land. To help other countries should fund money as certain causes are doing now such as CAFOD who helps overseas development prosper. Fair trade is also becoming well known which ensure foods produced in 3rd world countries</p>	
REL?	<p>are sold in places such as Britain. The fair trade company also tries to provide a fair price for their products and work against products being sold for less in 3rd world countries which would be worth more in Britain.</p>	
not cause + effect health	<p>Basic lack of <u>hygiene</u> also means that <u>HIV</u> and <u>AIDS</u> which are sexually transmitted diseases are spreading fast in places such as Africa - many people die because of no medicine. To help the problem we could provide more hospitals or check ups in order for the people to get vaccinated which is something that is free on the NHS</p>	

Question number

Leave blank

gender ✓ in our country. We could also tackle women's rights so more could be done to prevent rape that happens on a regular basis in many countries which would reduce sexually transmitted diseases spreading.

education ✓ Providing a better education with materials such as blackboards and paper would also ensure 3rd world countries learn about health and become more aware of the risks such as drinking dirty water.

conclus ✓ Overall, I believe that it is unfair that 3rd world countries have a lower quality of life when compared to Britain. Britain itself, could stop consuming as much food themselves and donate the money to the people in need of help - this could go towards healthy foods, clean water, rebuilt stronger houses and fair trade for their products they have grown on their land.

focuses on Africa, not on Britain. Some points on social inequalities etc. that can be regarded as having a general relevance. mid level 2

9

12 + 9 =

21

4 PAGE ANSWER BOOK

GCSE, GCE, VCE and GNVQ Examining Bodies

For

29

Examiner's Initials
MC

**GENA2 Section B
Model Marked Script 6**

Question number	Mark
4a	16
4b	13
Total	29

- Use blue or black ink or ball-point pen.
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Question number	
4a)	<p>There are many kinds of 'individual behaviour' that is necessary to maintain good health. For example, if a person does not eat any fruit or vegetables but rather lives on a diet of lots away for chips and cake then they aren't going to be in good health. Similarly It is important for people to have a varied diet and eat food from each of the five major food groups (meat/fish, dairy, fruit/veg, grains and pulses and Carbohydrates). They need to eat five portions of fruit or vegetables every day to absorb lots of necessary vitamins and minerals, like vitamin C which that enables a healthy immune system.</p> <p>Dairy foods are important because they contain calcium, for healthy teeth and</p>

Leave blank

AB04

Question number

Leave blank

bones. ~~Have provide~~ Red meat provides iron, which means blood can ~~can~~ transport oxygen more efficiently. Iron is especially important for women (who lose some every month during their menstrual cycle) so if they are vegetarians it is important that they substitute the meat with leafy greens vegetables whenever possible, like spinach. // Also necessary for good health is exercise. When you eat carbohydrates, your body changes them into energy which needs to be used up. A person should aim to about thirty minutes to an hour of exercise every day to avoid build ups of fat, which can lead to obesity, and health problems such as coronary heart disease and arthritis. Eating too much saturated fat can result in high cholesterol, ~~to~~ that can also lead to heart disease. // If a person drinks too much alcohol, it can cause cirrosis of the liver and eventually liver failure, so it is not wise to drink alcohol too often, or 'binge drink' regularly. Alcoholism can also lead to decreased mental capacity. Smoking is also bad for your health as it causes tar to build up in the lungs and can weaken the heart muscles. Misuse of drugs ~~can cause a variety of~~ poses a variety of health risks.

A person should drink up to eight litres of water a day as the body is mostly made up of water and it is important to keep hydrated. Drinking sugary drinks can cause tooth decay and gingivitis gingivitis (also a by-product of smoking). It is important to brush teeth thoroughly and use mouth wash or dental floss. Finally, regularly fresh air and outdoor activities are very beneficial to health. good health. wide ranging, includes clear detail. High L3

4b) One way to tackle the causes of health inequalities is to ensure adequate housing is available. Houses that are cold or damp are detrimental to overall health. So improving the quality of council housing in particular is very important. Another way is to ensure access to free health health and dental care ~~to~~ for people across the country, it is all well

exercise

alcohol

smoking

over

health care

16

Quest number		Leave blank
min. wage	<p>and good having a national health service, but it is not very useful if people can't get to it. Raising the <u>minimum wage</u> would allow people in to low grade jobs to afford a <u>better diet</u> as they would have more money to spend on food.</p>	
working conds.	<p>Improving some <u>working conditions</u> and lowering <u>work place stress</u> would also mean less people would miss work beca</p>	
environment	<p>because of illness. Reducing <u>factories</u> and <u>traffic pollution</u> would make the air in inner-city areas cleaner and <u>reduce</u> respiratory problems such as <u>asthma</u> that can be caused</p>	
health educ.	<p>triggered by polluted air. Finally, improving <u>health education</u> for the general public would improve the way people take care of themselves and ^{increase} <u>health statistics</u>. Raising <u>awareness</u> of the problems that alcohol and nicotine cause (especially in <u>schools</u>) would mean people would know more about staying healthy and they could help themselves stay that way, making <u>less work</u> for the NHS.</p>	
	<p>Q. brief, but clear focus on social issues and a gd. range of relevant ideas. Just L3</p>	13
	<p>16 + 13 =</p>	29

4 PAGE ANSWER BOOK

GCSE, GCE, VCE and GNVQ Examining Bodies

For examiner's use
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**GENA2 Section B
Self Assessment Script 1**

Question number	Mark
2a	
2b	
Total	

- Use blue or black ink or ball-point pen.
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Write here how many additional sheets you have used (if any).	
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Question number

2	a) The use of water transport may improve a company's 'environmental standing' because if stock is being directly brought in and stored by sea, less vans and delivery lorries are on the road, causing pollutant gases to be released. Vans and lorries are huge vehicles that release an abundance of exhaust fumes - more than the average car. If every company's collection of lorries were permanently going up and down the country, the overall

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AB04

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	percentage of carbon monoxide and other toxic fumes would in the air would be incredibly high.
	In contrast, boats use ^{create} little pollution. Recently, more boats have been using electricity to run and if we consider the storage space in a boat and the storage space in a lorry, it's safe to conclude that a boat would transport so much more produce at the expense of so little pollution, which is extremely healthy for the environment. Factors like this will not go unnoticed. The advantages water transport brings will appeal to everyone - especially environmentalists. In addition to this, other companies will hear of the reduction of the rail companies' carbon footprints and attempt to get up to the standing themselves.
	It is also important to consider congestion - less lorries means less traffic jams and more room for cars to get where they're going quicker. Additionally, is the factor that imports from sea will reduce the amount of imports by plane, which further reduces the company's carbon footprint.
2	b) The social issues of rail, road and air freight are the pollution problems it causes and the frustration it brings to the public. Huge vehicles need large amounts of gas or petrol and thus, cause huge amounts of toxic pollution that destroys the air we breathe and dulls our country. Putting air pollution aside, there are also the factors of noise pollution and space congestion. Large vehicles are incredibly noisy and trains are even more so. This causes many irritations for those living near roads or railways. Coupling this with traffic congestion means pollution

Question
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is spread consistently and traffic becomes noisier. Lorries are also large, clumsy machines that cause a lot of problems and accidents on the roads. This leads to money issues in turn.

Economically, road, rail and air freight must cost both the public and different corporations tons in tax. The larger and more prone to pollute a vehicle is, the more tax that is piled upon it. Adding this to issues like area and insurance means money must be being spent in an abundance on those 'gas-guzzlers'.

The more planes, trains and cars there are, the more roads, railways and runways are needed. As more and more are being used, this is definitely becoming an issue. New roads are being built all the time and the debate upon more runways at Heathrow airport continues. This creates uproar as they are being built through important residential space, landmarks or treasured countryside.

Energy sources are slowly running out. Both socially, and economically we don't have time to be wasteful.

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**GENA2 Section B
Self Assessment Script 2**

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Write here how many additional sheets you have used (if any).

Question number	Mark
2a	
b)	
Total	

Question number

2a)	Lorries are used on the roads but the main problem is that in stop start traffic more fuel is wasted by keeping the engine running so more greenhouse gases are released into the atmosphere.
	whereas boats take about the same time to get a product from Felixstowe to Liverpool but boats are greener because they can carry a load more items in one go rather than a load of lorries

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AB04

Question
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that are on the roads.

Since there would not be very many boats on the North Sea as in the Channel meaning the boat can be greener by using less fuel because they are either Diesel powered.

In cars Diesel compared to petrol you get a higher MPG meaning more fuel efficient cars. Buses and lorries use Diesel for the same reason. But the bigger cargo boats use nuclear fuel which is bad but it is a very efficient process because you can get lots of electricity quickly.

2b) Transporting freight by road takes the longest amount of time which means it costs for fuel and time on the road but other companies like McDonalds used chip pan oil to fuel the lorry this shows how one company how transported by lorries. Lorries generally cause traffic jams and build them up.

Transporting freight by air is fairly expensive but it is being fought. But aeroplanes fuel kerosene is one of the most expensive fuels to buy for planes. Planes are socially better because they don't congest the roads but the airports.

Transporting freight by rail is generally in the middle because it is not as expensive as flying and quicker than lorries. In the UK we have one of the best rail systems in Europe but it is not really used for transporting goods like in

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**GENA2 Section B
Self Assessment Script 3**

Question number	Mark
3a	
3b	
Total	

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Write here how many additional sheets you have used (if any).	
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Question number

3a	There have been a few concerns about mobile phones and their systems. One of the main concerns is probably health issues, with Parents in particular worrying about the health of their children. Although there is no definite evidence, some research has indicated that mobile phones can cause potential damage to the brain; with radio frequencies. Parents or others may feel concern because although it may be acceptable to use mobile phones in the short term, long term there could be in particular (possibly) give
----	---

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Question
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	brain damage to people.
	Another concern about mobile phones is possibly there their expense. Mobile phones not only cost a lot of money to buy but they also cost a lot of money to keep running, they are not really much use without any money on. People constantly have an almost 'addiction' to constantly text or email friends and are therefore persuaded by phone companies to 'top up' or even better spend more money on 'better package deals'.
	However, it could be argued that mobile phones are an absolute necessity in today's society. They could, potentially, save someone's life in an emergency situation and are a very handy way to get in touch with someone if they are not at home. Therefore, I do believe handsfree should be promoted to please health warnings about RF but also to be used in essential situations.
	There are more arguable problems with mobile phones. As years pass, technology advances and mobile phones are more stylish and up to date than ever before. This causes potential problems. Not only ^{because they} are they even more expensive than before, people cannot afford them and crime has increased where phones have been stolen from other members of the public. Threats and 'mugging' has become more common in today's society.
	To conclude, there are various reasons why mobile phones has caused a concern for some people. There have been health issues (although no specific evidence) about brain damage, art and even arthritis (from text messaging). Also crime has increased and it is very expensive to keep mobile phones running.

Ques.
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b) People such as scientists and politicians may take a 'precautionary approach' to new technological developments. Scientists may understand it (even if there is a small chance) of health issues. From specific studies of the body ^(for example) or particularly, scientists probably understand ~~of~~ ^{the} effects that ~~an~~ ^{antibiotics} have on the body. (eg. possible brain damage).

Politicians and other ~~parted~~ people who are interested in the development of the world may worry (through looking at developing technology) ~~may believe~~ that technology is developing too fast. They may believe that ~~the~~ development of technology could lead to potentially dangerous equipment being brought out. For example countries could develop potentially dangerous ^{war} ~~machines~~ equipment such as ^{bigger, more dangerous} bombs, that could kill more than they do already. If countries go to war in the future, the consequences of advanced technology could be disastrous.

Also, with advanced technology comes more selfishness and greed. People want more of the 'latest thing' and because new technology is expensive, crime rate has increased due to people stealing ~~off~~ from others.

Also we have to become careful we don't depend too much on technology. For example, the Government has become worried that the figures of obesity is on the increase in this country. This could be due to the modernisation of objects such as televisions, game consoles etc. Because of this, people spend ^{more} ~~less~~ time in the house ^{using technology} and ~~less~~ time out doing exercise and keeping fit and healthy.

People are depending too much on technology and not ~~as~~ ^{are} concerned about themselves.

To sum up, technological developments do need to be viewed in a precautionary way. Scientists have identified the health problems technology has caused. Also from

Question
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	<p>a worldwide perspective (like politicians use) the use of</p>
	<p>advanced technology could cause horrific problems in a</p>
	<p>war situation. There is also the aspect of increased crime</p>
	<p>rate and other health issues that need to be considered</p>
	<p>when thinking about technological developments.</p>

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**GENA2 Section B
Self Assessment Script 4**

- Use blue or black ink or ball-point pen.
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Question number	Mark
3a	
3b	
Total	

Write here how many additional sheets you have used (if any)

Question number

	<u>Section B:</u>
3a	Using mobile phones has caused a rise in concern because it has been seen as a health hazard. The use of a mobile or having a mast in a near location has caused a stir and concern with small children. There is nothing to support.

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Question
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this but children might be vulnerable
radio frequencies frequency exposure
~~exp~~ exposures to the head. It has
rised in concern because in the Netherlands
the use of mobile phones is seen as
a problem yet not scientifically proven.
Concerns may also occur from false
data or media influence. As there is
no establishment of scientific basis, most
concerns come from rumours and
probably media influence.

38. Scientists obligations in taking
precautions are high. They probably have
more knowledge if tests have been ~~to~~
carried out or if tests are ~~to~~ still
being carried out. ~~But~~ The public are
also probably more likely to trust a
scientist because of their knowledge
and experience. Politicians are
more likely to have less knowledge
about technology and what precautions
to take without research and
tests carried out by scientists.
The public would rely on both though
to ~~know~~ know what precautions to take.
I think both have high
obligations about taking precautions
with new technology.

Question
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Others obligations, such as TV or Media, have low knowledge in the precaution approach. You cannot believe what is said by them as there may be no possible proof, just hear say. The public are more likely to believe or do what scientists or politicians say.

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**GENA2 Section B
Self Assessment Script 5**

Question number	Mark
4a	
4b	
Total	

- Use blue or black ink or ball-point pen.
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Question number

4.a	Perhaps the most obvious form of 'individual behaviour' to ensure good health is making sure that one has a balanced diet (i.e. one consisting of the varied amounts from the 7 food groups). This naturally would prevent obesity by avoiding excessive fat as well as ensuring
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a well-functioning mind. Moreover this would ~~prevent~~ ^{prevent} individuals from being underweight resulting in all sorts of health difficulties such as thinning of muscle and bone marrow. Exercise, an aspect of individual behaviour goes hand-in-hand with healthy eating as it ~~introduces~~ ^{introduces} oxygen into the bloodstream so a person is more physically and psychologically stable. Furthermore it ~~helps to~~ aids in burning off fat, so that an individual can reach a healthy weight.

In order to maintain good health, it is essential that an individual avoids all drugs including smoking and alcohol. Drugs (some of which are illegal) cause loss of appetite resulting in plummeting weight; they are also known for causing the brain to malfunction. Smoking is poor in regard to health as it reduces and slows down particles of oxygen from circulating the body, ~~which~~ ^{which} causes breathing difficulties. Alcohol should only be consumed in moderation as it damages the liver; moreover being regularly intoxicated results

Ques
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in malfunctions of the brain or could indirectly cause serious casualties. In conclusion all of these measures should be observed in order to increase life expectancy, and improve ~~upon~~ the overall health of individuals. ~~Factors~~ as well as preventing diseases such as Diabetes Type 2. Individual behavioural factors regularly highlighted in the media alongside other factors would ~~measure~~ in most cases mean a person of optimum health no matter what class.

4.6 Even in our Western Society, health inequalities are still rife and may prevent people from living longer in comparison to others.

Perhaps the main way in which these can be tackled is ensuring that a NHS is available to every person in Britain, to provide essential medical and dental care. Moreover this should be an effectively and well-equipped to support the ~~intake~~ number of people in a region - in short it should be representative of an area's population.

The government should play a

Question
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key role in ensuring the health of its citizens; as well as providing an N.H.S., it should also aim to care for every class. In particular, it should help the working class who may struggle to stay healthy due to ~~lack of access~~ lower income. The government could help by providing safe, warm housing for those who need it and offering payments to help those live in comfort with access to gyms and a healthy diet. ~~Such measures as the Source states would make the ideal image of~~ Lastly, to prevent ignorance, the media should be used to highlight Britain's need for a healthy society and educate every individual on the basic requirements for a healthy lifestyle.

In conclusion, ~~each~~ all of the above measures should be taken to ensure better living standards and optimum health. As the Source suggests such ideas would not only be beneficial to individuals but promote a sense of equality and ensure further progression of Britain's ever ~~to~~ increasing health.

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**GENA2 Section B
Self Assessment Script 6**

Question number	Mark
4a	.
4b	
Total	

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Question number

4a. ^{are things} There are kinds of 'individual behaviour' which are necessary to maintain good health. An example which is generally pushed by the government is exercise, because to be in good health you need to generally be fit, exercise improves fitness. The fact that your heart is a muscle means when you exercise you are exercising your heart muscle, building it up so that ~~later~~ it is stronger. The heart needs to be strong as it is your bodies most vital

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Again, therefore exercising helps a great deal. Also by exercising you reduce your body fat, which helps 'battle Obesity, which is an illness' which many people are being treated for these days.

Another way is to eat healthy, so that your body gets all the vitamins and minerals it needs to run efficiently, however you should only eat certain food groups in small quantities, such as fat, because too much fat is not good for your health. Fruit and vegetables are part of a government campaign, as the government realise that they are nutritious - therefore are good for your health.

Good hygiene is another way in which you can ~~can~~ maintain good health, because by having good hygiene it reduces the spread of germs, therefore can reduce the likelihood of catching illnesses such as the flu, which can be life-threatening.

Improving hygiene could be something as simple as washing your hands after using the toilet, and this can make a huge difference, so much that the NHS have a wash your hands campaign. Even safe sex can help maintain good health as it prevents you from catching STI's and STD's, some of which can be life threatening or can make you infertile.

Prevention is also a good way of maintaining good health, that is why the government

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issues Vaccinations such as the TB jab in schools, as this reduces the risk of people dying of TB, as it makes them immune to the strain.

Also healthy living such as not smoking and reducing intake of alcohol help people to maintain a healthy lifestyle as the fact that alcohol can severely damage the liver makes it out is life threatening, means that if you reduce your intake then you are more likely to be healthy. Also smoking is known to cause cancer which again is a life threatening disease so if you don't smoke you reduce the risk of getting cancer. Finally drugs can also both save lives and threaten lives depending on what they are, so people should only take drugs which they need, for instance they are prescribed by a doctor for an illness and are not taken for pleasure.

To conclude there are numerous ways in which 'individual behaviour' can maintain good health, it is just up to the person to choose whether to do it or not.

4b. The causes of health inequalities might be tackled in numerous ways, such as providing more facilities for less well off people, for instance free or reduced price gym memberships, or so that people can afford to go on exercise in order to improve their lifestyle and general health. Also discounts on healthy food, such as fruit

Question
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and vegetables could be introduced so less poorer people can buy healthy food. Free school meals for anyone who parents earn less than a specified amount so that at least children are eating at least one healthy meal per day.

Areas such as council owned properties to be improved so that people aren't living in poverty when the government or those council can do something to help.

The fact that there are some people who can't afford to pay for prescriptions to treat illnesses means that ~~their illness can get worse~~ ~~there~~ their illness ~~can~~ could become worse still because they can't afford the medication, possibly, reductions or prescriptions could be made for these people, otherwise they could die from minor illnesses.

Government campaigns are generally a good technique as it encourages people to improve their lifestyle and informs people of how to do so, because in many cases people want to live a healthy, healthy lifestyle, but don't know how to do so, therefore if they are told they can alter their lives accordingly.

To conclude there are many techniques which could be used to change the causes of health inequality but the people concerned need to be interested in doing so to make it happen.

GENA2 Self Assessment Commentaries

Script 1

Question 2(a)

Answers to this question should give an explanation of the environmental advantages of water transport over other forms of freight transport and comment on the 'environmental standing' of companies using water.

This particular answer has a number of relevant points:

- there is a discussion of pollution resulting from road transport, though carbon monoxide is the only specific example given
- there is a reference to ships carrying larger volumes of goods, with a relatively lower pollution impact – fairly general points
- identifies that the use of water transport will appeal to environmentalists and it will reduce ASDA's carbon footprint – it will affect their environmental standing
- water transport will reduce road congestion
- water will reduce use of air freight for imports
- basic error in suggesting that modern boats are run on electricity

Overall, a fair range of useful points are fluently made, though there is little detailed development and few specific examples.

It fits comfortably into the top end of the Level 2 descriptor: **12 marks**.

Question 2(b)

The emphasis in this question is on social and economic issues (rather than environmental issues), with reference to road, rail and air freight.

This answer does attempt to keep mainly to social and economic matters:

- there is a repetition of general pollution comments, but there is an attempt to give it a social context by referring to frustration to the public
- there are valid points on noise, congestion and accidents associated with road and rail transport
- the point about the economic burden of road tax and insurance is not very clearly made
- there is a useful comment on the pressure on residential space, landmarks and the countryside from road and runway construction, with a specific reference to Heathrow

In general, another fairly fluent answer with some relevant comments, but only a modest range and modest understanding demonstrated.

Firmly in the mid-range of Level 2: **9 marks**.

Overall: 12 + 9 = 21 marks

GENA2 Self Assessment Commentaries

Script 2

Question 2(a)

This is a very short answer, with limited knowledge and understanding and with weak communication levels. There are only a small number of points made:

- road freight is responsible for greenhouse gases
- boats can carry a greater volume of goods than lorries
- there is a reference to diesel fuel being more efficient than petrol, but an error on supposedly nuclear-powered cargo boats

There is clearly only limited content here, the spelling is poor, there are no accurate examples and explanations are weak.

Meets the Level 1 descriptor, but not close to the border with the next level: **4 marks.**

Question 2(b)

This is another short answer with restricted knowledge and understanding. It makes brief and limited points on each of road, air and rail transport:

- in relation to road, the answer refers to fuel and congestion issues, though with a dubious point about McDonald's alleged use of chip pan oil
- air transport is seen as expensive because of fuel costs, but it is said to reduce road congestion
- Britain is said to have one of the best rail systems in Europe, but it is not apparently used effectively for the transport of freight

The candidate has produced a generally unconvincing discussion, with many spelling errors and which lacks fluency.

Marginally more substantial than part (a), but still within Level 1: **6 marks.**

Overall: 4 + 6 = 10 marks

GENA2 Self Assessment Commentaries

Script 3

Question 3(a)

Candidates are asked to explain concerns about the operation of mobile phone systems.

This candidate picks up on some of the health issues in the extract provided, but struggles to identify any other significant issue:

- health issues are outlined, though largely based on the extract with little of the candidate's own knowledge added
- there is no reference to or comment on phone masts
- other concerns mentioned are expense, 'addiction' and, rather tenuously, crime
- the points about phones being an 'absolute necessity' are not really relevant, given the wording of the question

This is a quite fluently written and well-structured answer, but the content is disappointing, showing only modest knowledge and understanding of the topic.

This is into the Level 2 category, but at the lower end of the range: **8 marks**.

Question 3(b)

The question requires a discussion of the application of the precautionary principle to new technological developments, and anticipates examples other than just mobile phones.

This answer is again well-written, but there is little relevant content:

- there is a repetition of the points on mobile phones and health
- there are very vague comments on 'dangerous war equipment'
- the comments on selfishness, greed and crime are not relevant to the question
- similarly, the comments on obesity are unconvincing in terms of the question

This is another fairly fluent response, but with restricted and narrow knowledge and understanding of the key issues.

Despite its length and fluency, this answer fits the Level 1 descriptor: **5 marks**.

Overall: 8 + 5 = 13 marks

GENA2 Self Assessment Commentaries

Script 4

Question 3(a)

This response is brief and with distinctly limited content:

- it states that mobile phones and masts may be a health hazard to small children
- it comments that the concerns come from rumours and the media

Insofar as there is any relevant content, it is largely a paraphrase of the extract.

Communication and structure are weak.

Clearly a low to mid-range Level 1 answer: **3 marks**.

Question 3(b)

Another very weak answer, which does little to address the question:

- it comments that scientists have some public trust because of their knowledge
- it states that politicians have less knowledge of technology
- and that the media have even less knowledge

This very brief answer makes no attempt to explain the precautionary principle or to give any examples of its application.

Again, communication and structure are poor.

Another clear Level 1 response: **3 marks**.

Overall: 3+3 = 6 marks

GENA2 Self Assessment Commentaries

Script 5

Question 4(a)

The focus of this question is 'individual behaviour' that maintains good health, such as diet and exercise.

This confidently written response covers a wide range of appropriate issues:

- it identifies the importance of a balanced diet, mentions food groups and explains the benefits of a healthy diet
- it identifies the importance of exercise, explaining some of the functions of exercise for the body
- it identifies drugs, smoking and alcohol as potential health risks, explaining the reasons they are problematic
- a strong conclusion reiterates the importance of a healthy lifestyle in avoiding illness and maintaining good health

This is not a perfect answer, but it covers the main issues with clearly explained arguments, analysis and exemplification.

A high Level 3 mark is appropriate: **17 marks**.

Question 4(b)

Some 'causes of health inequalities' are identified in the extract – answers to this question need to focus on these issues.

In this answer the candidate addresses some of the social factors related to health inequality:

- there is an introduction noting the significance of health inequalities in western society
- there is a discussion of the importance of an effective and well-equipped NHS
- there is consideration of the importance of the role of government in dealing with inequality
- the significance of social class is noted
- there are proposals relating to the provision of good quality housing and payments to access good diet and exercise as means of addressing health inequalities
- there is a clear conclusion

This is another well-written answer which mentions key issues, though not quite as wide-ranging as the response to part (a).

It meets the descriptor for a Level 3 mark: **14 marks**.

Overall: 17 + 14 = 31 marks

GENA2 Self Assessment Commentaries

Script 6

Question 4(a)

This candidate outlines a wide range of relevant points with some appropriate exemplification:

- the importance of exercise is noted, with some explanation
- there is an account of healthy eating
- preventative measures such as good hygiene and vaccination against major diseases are outlined
- lifestyle issues, including safe sex and the avoidance of drugs, limited alcohol intake and non-smoking are outlined

The answer is characterised by breadth rather than depth, but is well organised and structured.

It is strong enough for a mark in the Level 3 range: **14 marks**.

Question 4(b)

In this answer, the candidate makes some attempt to consider health inequalities, but doesn't take advantage of the clues in the extract:

- there is a suggestion of free or reduced price access to gyms
- discounts on healthy foods are mentioned
- free school meals are suggested (they already exist!)
- improvements to council housing are proposed
- free prescriptions for those who can't afford the full price are suggested (they already exist!)
- vaguely defined government campaigns are proposed

Although some appropriate points are made, many are hardly original and the development of the arguments is quite limited.

This is at the lower end of the Level 2 mark range: **8 marks**.

Overall: 14 + 8 = 22 marks