

Mark Scheme (Results)

Summer 2015

Pearson Edexcel International GCE
in General Studies (6GS01)

Unit 1: Challenges for Society

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Section A

Question Number	Answer	Mark
Q1	D	1

Question Number	Answer	Mark
Q2	B	1

Question Number	Answer	Mark
Q3	D	1

Question Number	Answer	Mark
Q4	B	1

Question Number	Answer	Mark
Q5	D	1

Question Number	Correct Answer	Mark
Q6	D	1

Question Number	Answer	Mark
Q7	B	1

Question Number	Answer	Mark
Q8	A	1

Question Number	Answer	Mark
Q9	B	1

Question Number	Answer	Mark
Q10	C	1

Question Number	Answer	Mark
Q11	D	1

Question Number	Answer	Mark
Q12	A	1

Question Number	Answer	Mark
Q13	A	1

Question Number	Answer	Mark
Q14	C	1

Question Number	Answer	Mark
Q15	C	1

Question Number	Answer	Mark
Q16	C	1

Question Number	Answer	Mark
Q17	D	1

Question Number	Answer	Mark
Q18	C	1

Question Number	Answer	Mark
Q19	A	1

Question Number	Answer	Mark
Q20	B	1

Section B

Question Number	Acceptable Answers	Mark
21	<p>Up to 3 marks from</p> <p>A older/Ptolemaic/traditional Christian model <u>Sun orbits Earth</u>;</p> <p>B older/Ptolemaic/traditional Christian model other planets orbit Earth/geocentric/Earth at centre; (accept Earth at centre of universe but NOT humanity at centre)</p> <p>C newer/Copernican model <u>Earth orbits Sun</u>;</p> <p>D newer/Copernican model other planets orbit Sun/Heliocentric/Sun at centre; (accept everything/solar system orbits the Sun for this mark but NOT for mark C)</p> <p>To gain marks answers must state differences and clearly link them to the appropriate model. If models are not identified then no marks</p>	3

Question Number	Acceptable Answers	Mark
22 (a)	<p>Up to 2 marks from</p> <p>A <u>fossil</u> (record);</p> <p>B (understanding of) <u>genetics</u>;</p> <p>Credit any quotes which include the underlined words. As a minimum accept just "Fossils and genetics".</p>	2

Question Number	Acceptable Answers	Mark
22 (b)	<p>Up to 2 marks from</p> <p>A because <u>mutations</u> or <u>adaptations</u> (accept animals adapt);</p> <p>B are <u>selected</u> or natural <u>selection</u>;</p> <p>C in response to/because of <u>changes in environment</u>(accept environment changes);</p> <p>D (leading to) <u>survival of fittest</u> (do NOT accept any paraphrasing for this mark eg the best survive);</p> <p>Credit any quotes which include the underlined words.</p>	2

Question Number	Acceptable Answers	Mark
23 (a)	<p>Up to 2 marks from</p> <p>A some complicated or complex mechanisms/structures (in organisms);</p> <p>B (imply a) designer/creator/existence of God or deity;</p> <p>Ignore references to creationism. Mark B mark is dependent on mark A ie mention of designer/God etc without mention of complexity gets no marks.</p>	2

Question Number	Acceptable Answers	Mark
23 (b)	<p>Award one mark for any phrase or quote including any of the underlined words</p> <p>(based on) <u>experiment</u> or <u>experience</u> or <u>observation</u>;</p> <p>(Do NOT accept evidence or research)</p>	1

Question Number	Acceptable Answers	Mark
23 (c)	<p>Award one mark for any phrase or quote including any of the underlined words or phrases</p> <p>(having an) <u>end</u> or <u>purpose</u> or <u>aim</u> or <u>intention</u>;</p> <p>(Accept outcome but NOT consequence)</p>	1

Question Number	Acceptable Answers	Mark
24	<p>Up to 4 marks from</p> <p>A (initial) <u>observations</u>; (NOT evidence or research)</p> <p>B (used to formulate/lead to) <u>hypothesis</u>;</p> <p>C (used to) <u>predict</u>;</p> <p>D predictions/hypothesis <u>tested</u> by (further) observations OR <u>falsifiable</u>;</p> <p>E revise hypothesis if testing unsuccessful/new evidence appears OR (leading to)theory if successful/proven correct;</p> <p>F based on induction/cannot be <u>completely/absolutely</u> proven; (NOT just cannot be proved)</p> <p>Note that the order of points is not relevant.</p>	4

Question Number	
25	
Marking Guidance	
After marking the answer for AO2, assess it for communication, AO4.	
A02: Marshall evidence and draw conclusions: select, interpret, evaluate and integrate information, data, concepts and opinions.	
Up to 5 marks from	5
A Copernicus/Darwin/heliocentrism/evolution clashed with religion;	
B because heliocentrism or evolution applied in areas related to religion or belief;	
C ie place of humankind in universe (Copernicus) or ie origin of humankind as creation of deity (Darwin);	
D Newton/mechanics or optics/Thompson/Rutherford/atomic structure did not clash; (do not credit any reference to nuclear weapons)	
E because they are not in areas related to religion eg religion does not say anything/have teachings about atomic structure or optics or mechanics; (Do NOT award this mark unless there is some detail about why they do not clash.)	
Each mark A-E can only be awarded once.	

Mark	Descriptor
	<p>AO4: Communicate clearly and accurately in a concise, logical and relevant way.</p> <p>The AO4 marks are NOT dependent upon the AO2 marks.</p>
0	The answer is badly expressed, not relevant or fails to treat the question seriously, there are many serious lapses in grammar and spelling or there is too little of the candidate's own writing to assess reliably.
1	The answer is only understandable in parts, writing may be in an inappropriate form, arguments are not clearly expressed, rarely relevant and in places grammar and spelling inhibit communication.
2	The answer is broadly understandable, writing is in the correct form. Arguments are on the whole coherent, mainly relevant and grammar and spelling do not inhibit communication.
3	The answer is clear and lucid, (writing in correct form is taken as a matter of course) arguments are coherent and well laid out, and relevant, there are very few grammatical or spelling errors.

Question Number	
26	
Marking Guidance	
After marking the answer for AO3, assess it for communication, AO4.	
A03: <i>Demonstrate understanding of different types of knowledge, appreciating their strengths and limitations.</i>	
Up to to 4 marks from	4
<p>A Reference to possible bias OR author/author's expertise/status/authority is unknown OR examples are selected/limited in range;</p> <p>B Identifies a relevant fact eg Origin of Species 1859 (accept objective or statistical for fact);</p> <p>C Identifies a relevant opinion eg radical new understanding (accept subjective for opinion but do NOT credit statements about belief);</p> <p>D refers to (relative) strength of fact or opinion OR discusses relative strength or weakness of argument by analogy/comparison;</p> <p>E identifies argument by analogy / comparison ie Copernicus is accepted so Darwin will be eventually;</p> <p>Each mark A-F can only be awarded once.</p> <p>Do NOT credit any points relating to arguments from authority (except as set out in mark A) or causal arguments or arguments by induction.</p>	

Mark	Descriptor
	<p>AO4: <i>Communicate clearly and accurately in a concise, logical and relevant way.</i></p> <p><i>The AO4 marks are NOT dependent upon the AO2 marks.</i></p>
0	The answer is badly expressed, not relevant or fails to treat the question seriously, there are many serious lapses in grammar and spelling or there is too little of the candidate's own writing to assess reliably.
1	The answer is only understandable in parts, writing may be in an inappropriate form, arguments are not clearly expressed, rarely relevant and in places grammar and spelling inhibit communication.
2	The answer is broadly understandable, writing is in the correct form. Arguments are on the whole coherent, mainly relevant and grammar and spelling do not inhibit communication.
3	The answer is clear and lucid, (writing in correct form is taken as a matter of course) arguments are coherent and well laid out, and relevant, there are very few grammatical or spelling errors.

Section C

Question Number	
27	
Marking Guidance	
After marking the answer for AO1 and AO2, assess it for communication, AO4.	
Mark	Descriptor
	<p>AO1: <i>Demonstrate relevant knowledge and understanding applied to a range of issues, using skills from different disciplines.</i></p>
0-8	<p>Award 1 mark for each valid point, up to a maximum of 8 marks, such as:</p> <p>A10 secular means separation of religion and state; A20 religion is or becomes a private matter; A30 individuals still have religious beliefs even in secular state; A40 UK is not secular or UK is broadly Christian; A50 because Monarch is also head of Cof E; A60 France is secular; A70 most US citizens are religious/Christian; A80 we have a religious heritage eg in laws / religious holidays / other customs (up to 3 examples);</p> <p>The above points are illustrative only and not exhaustive. Any other valid points must be credited, even if they don't appear in the list above.</p>
Mark	Descriptor
	<p>AO2: <i>Marshall evidence and draw conclusions: select, interpret, evaluate and integrate information, data, concepts and opinions.</i></p>
0-8	<p>Award 1 mark for each valid point, up to a maximum of 8 marks.</p> <p>The question requires candidates to critically examine conflicting views/alternative viewpoints. Candidates who give consideration solely to one side of the question are limited to a maximum of 6 marks.</p> <p>Points should be used to demonstrate how evidence is marshalled by:</p> <ul style="list-style-type: none"> • Selecting: identifying and applying relevant evidence • Interpreting: showing how evidence helps to answer the question • Evaluating: assessing the strength of the evidence in support of the question • Integrating: using evidence to develop a coherent argument/conclusion

	<p>Note – evidence can be information, data, concepts or opinions</p> <p>The following areas are likely to be addressed by a majority of candidates, but candidate responses are not restricted to these areas. Other valid points must be credited, even if they don't appear in the list below.</p> <p>B10 secular means more freedom eg all treated equally or no religion favoured / not oppressed by majority religion / no dominant state religion / restrictions apply to all (up to 3 examples); or RE is taught; B15 existence of faith schools B20 secular means less freedom eg why should individual freedom be restricted / examples of restrictions (up to 3 examples); B30 historical/current examples of religious intolerance/wars/oppression eg crusades/ ISIL/ persecution of Jews or other named examples (up to 3 examples); B40 whether secular or not religion may be tolerated or persecuted;</p> <p>B201 Conclusion which is simple (implicit or explicit) 1 mark B202 Conclusion linked to limited evidence/arguments 2 marks B203 Conclusion balanced and comprehensive 3 marks</p> <p>Any other valid points must be credited.</p>
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Mark	Descriptor
	<p>AO4: <i>Communicate clearly and accurately in a concise, logical and relevant way.</i></p> <p><i>The AO4 marks are not dependent upon the AO1 and AO2 marks.</i></p>
0	The answer is badly expressed or fails to treat the question seriously, there are many serious lapses in grammar and spelling or there is too little of the candidate's own writing to assess reliably.
1	The answer is only understandable in parts and maybe irrelevant, writing may be in an inappropriate form, arguments are not clearly expressed, and in places grammar and spelling inhibit communication.
2	The answer is generally understandable, writing is often in the correct form. Arguments are sometimes coherent and relevant, and grammar and spelling do not seriously inhibit communication.
3	The answer is broadly understandable, writing is in the correct form. Arguments are on the whole coherent and relevant, and grammar and spelling do not inhibit communication.
4	The answer is clear and lucid, (writing in correct form is taken as a matter of course) arguments are coherent, well laid out and relevant, there are very few grammatical or spelling errors.

Question Number	
28	
Marking Guidance	
After marking the answer for AO1 and AO2, assess it for communication, AO4.	
Mark	Descriptor
	AO1: <i>Demonstrate relevant knowledge and understanding applied to a range of issues, using skills from different disciplines.</i>
0-8	<p>Award 1 mark for each valid point, up to a maximum of 8 marks, such as:</p> <p>A10 names Fukushima, Chernobyl, 3-mile island, Sellafield/Windscale (max 2 marks);</p> <p>A20 methane, CO₂, sulphur, nitrous oxides named as pollutants (max 2 marks);</p> <p>A30 other fuels/power sources named eg fossil/coal/oil/wind/wave/hydro/solar (max 2 marks);</p> <p>A40 renewables are non-polluting;</p> <p>A50 details of accidents eg infrequent /have long-lasting effects / produce widespread or international effects/ detailed health effect eg cancer, radiation sickness, mutation/ vulnerable to terrorist attack (max 3 marks);</p> <p>A60 waste disposal problems eg long-lived or long half-life/ dumping into sea or atmosphere(max 2 marks);</p> <p>A70 high decommissioning costs / environmental implications of decommissioning (max 2 marks);</p> <p>A80 in operation for a long time;</p> <p>A90 energy demand is rising;</p> <p>Any other valid points must be credited.</p>

Mark	Descriptor
0-8	<p>A02: Marshall evidence and draw conclusions: select, interpret, evaluate and integrate information, data, concepts and opinions.</p> <p>Award 1 mark for each valid point, up to a maximum of 8 marks.</p> <p>The question requires candidates to critically examine conflicting views/alternative viewpoints. Candidates who give consideration solely to one side of the question are limited to a maximum of 6 marks.</p> <p>Points should be used to demonstrate how evidence is marshalled by:</p> <ul style="list-style-type: none"> • Selecting: identifying and applying relevant evidence • Interpreting: showing how evidence helps to answer the question • Evaluating: assessing the strength of the evidence in support of the question • Integrating: using evidence to develop a coherent argument/conclusion <p>Note – evidence can be information, data, concepts or opinions</p> <p>The following areas are likely to be addressed by a majority of candidates, but candidate responses are not restricted to these areas. Other valid points must be credited, even if they don't appear in the list below.</p> <p> B10 nuclear produces large amount of power; B20 future potential is large/supplies of uranium large; B25 research/development may improve safety/disposal problems; B30 shutting down leads to supply shortage; B40 replaced by other sources/fossil or other fuels running out; B50 leading to more pollution or more global warming from fossil fuels; B60 less pollution or less global warming from renewable; B70 nuclear option is more expensive than other sources; B80 pollution levels are rising; B90 nuclear has other uses eg bomb or defence/medicine/industrial /scientific research (max 3 marks) </p> <p> B201 Conclusion which is simple (implicit or explicit) 1 mark B202 Conclusion linked to limited evidence/arguments 2 marks B203 Conclusion balanced and comprehensive 3 marks </p> <p>Any other valid points must be credited.</p>

Mark	Descriptor
0	<p>AO4: Communicate clearly and accurately in a concise, logical and relevant way.</p> <p>The AO4 marks are not dependent upon the AO1 and AO2 marks.</p>
1	The answer is badly expressed or fails to treat the question seriously, there are many serious lapses in grammar and spelling or there is too little of the candidate's own writing to assess reliably.
2	The answer is only understandable in parts and maybe irrelevant, writing may be in an inappropriate form, arguments are not clearly expressed, and in places grammar and spelling inhibit communication.
3	The answer is generally understandable, writing is often in the correct form. Arguments are sometimes coherent and relevant, and grammar and spelling do not seriously inhibit communication.
4	The answer is broadly understandable, writing is in the correct form. Arguments are on the whole coherent and relevant, and grammar and spelling do not inhibit communication.
4	The answer is clear and lucid, (writing in correct form is taken as a matter of course) arguments are coherent, well laid out and relevant, there are very few grammatical or spelling errors.

