

MARK SCHEME for the October/November 2013 series

8001 GENERAL PAPER

8001/22

Paper 2, maximum raw mark 50

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

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| Page 2 | Mark Scheme | Syllabus | Paper |
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1 (a) Credit the material below or any other valid points.

- Read rather than heard.
- Set out as a play, with names of speakers, stage directions ...
- Unstructured, it begins casually and ends abruptly rather than being introduced and concluded formally.
- With emphasis on the interplay of characters, what is said is often less important than how it is said.
- There is the odd inconsequential action or reference to matters having no bearing on energy issues.
- There are no statistics or technical detail
- since no experts are involved.
- There are some unconsidered suggestions, examples of biased opinion or arguments that would not hold water in public
- coming from a pair who are not professional broadcasters.

5 × 2 [10]

Any relevant content well above 100 words should be totally disregarded. Examiners should annotate script to indicate at that point.

(b) Credit the material below or any other valid points.

- Felix makes a positive response to Ernest's worries about the future of energy.
- He applies commonsense to Ernest's concerns over earthquakes and tsunamis.
- Arguably, he hasn't thought through nuclear waste disposal before Ernest's sarcastic suggestions.
- Likewise, where the nuclear reactor should be located seems to come off the cuff.
- He wins, though, the argument over accessibility.
- Felix is dominant in the closing stages, as he comes down hard on Ernest's wild proposals about hydroelectric power
- so that Ernest has to temporise before beating a hasty retreat.

Whilst deciding a mark, award

9 – 10 for a relevant,

perceptive

and balanced assessment

that reaches a conclusion

after having covered at least **four** exchanges;

7 – 8 when one of the criteria above has not been satisfied;

5 – 6 when two of the criteria above have not been satisfied;

3 – 4 when the answer is badly flawed but contains some worthwhile material;

1 – 2 when there is little merit in the answer;

0 when there is no merit in the answer.

[10]

Any relevant content well above 100 words should be totally disregarded. Examiners should annotate script to indicate at that point. Too short an answer means that content will be inadequate.

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- (c) Candidates are at liberty to choose what title they please but must take cognisance of the entire passage.

A valid interpretation might be as follows:

'Out of their depth!' Both Ernest and Felix are arguing over technical issues to which they have apparently not given much serious thought beforehand. Consequently, at every stage their assertions are open to challenge.

Award marks as follows:

3 sound choice; sound justification;

2 suspect choice; reasonable justification;

1 sound choice; weak justification;

0 suspect choice; weak justification.

[3]

Any relevant explanation well above 30 words should be totally disregarded. Examiners should annotate script to indicate at that point. Do not, however, take the length of the title into account in the word-count.

- (d) (i) Felix does not take factors (such as diet or heredity) **(1)** other than exercise into account. **(1)**
- (ii) Ernest is incapable of appreciating **(1)** why such regulations have been imposed/
(1) how other countries may view through traffic.
OR Ernest rightly pours scorn **(1)** on petty bureaucracy. **(1)**
- (iii) Ernest thinks that Felix cannot rid himself **(1)** of a bee in his bonnet. **(1)**
OR Ernest mocks **(1)** Felix's commitment to nuclear energy. **(1)**
- (iv) To stress how inaccessible **(1)** the site is. **(1)**
- (v) To distract Felix **(1)** from pressing his advantage. **(1)**
- (vi) To give Ernest time to think **(1)** of how better to deal with Felix's last objection. **(1)**

[12]

| | | | |
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2 (a) Credit any valid material. Candidates are at liberty to interpret any of the data (e.g. (4)) provided in other ways from those suggested below.

A

- empty classrooms
- next to surgery (3)
- with partitions (7)
- and near houses (15) could outweigh
- no more than three classrooms
- with no toilets (5)
- or, possibly, waiting area
- by congested roads (10)
- and the danger posed by an epidemic (18)

B

- eight rooms
- in the town centre
- above government offices (4) [positive or negative]]
- and with a w.c. (12)
- and above a comfortable public area (16) could outweigh
- no cheap car park nearby (1)
- (exacerbated by poor public transport and possible congestion on market days (8))
- poorly lit rooms (6)
- difficult stairs and lift (20)

C

- foyer and three auditoriums
- cleared of furniture (11)
- with utilities intact (17)
- including free and easy parking (19)
- easy to reach on market days (2) could outweigh
- transport problems (8)
- local crime (13)
- surrounding dereliction (19)

Whilst deciding a mark, award

9 – 10 for a relevant,

perceptive

and balanced assessment

that eventually endorses one site

after having covered at least five factors;

7 – 8 when one of the criteria above has not been satisfied;

5 – 6 when two of the criteria above have not been satisfied;

3 – 4 when the answer is badly flawed but contains some worthwhile material;

1 – 2 when there is little merit in the answer;

0 when there is no merit in the answer.

[10]

Any relevant content well above 100 words should be totally disregarded. Examiners should annotate script to indicate at that point. Too short an answer means that content will be inadequate.

| | | | |
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(b) Credit any valid material. Candidates are at liberty to interpret any of the data (e.g. (4)) provided in other ways from those suggested below.

A

- no more than three classrooms
- with no toilets (5)
- or, possibly, waiting area
- by congested roads (10)
- and the danger posed by an epidemic (18) could outweigh
- empty classrooms
- next to surgery (3)
- with partitions (7)
- and near houses (15)

B

- no cheap car park nearby (1)
- (exacerbated by poor public transport and possible congestion on market days (8))
- poorly lit rooms (6)
- difficult stairs and lift (20) could outweigh
- eight rooms
- in the town centre
- above government offices (4) [positive or negative]
- and with a w.c. (12)
- and above a comfortable public area (16)

C

- transport problems (8)
- local crime (13)
- surrounding dereliction (19) could outweigh
- foyer and three auditoriums
- cleared of furniture (11)
- with utilities intact (17)
- including free and easy parking (19)
- easy to reach on market days (2)

Whilst deciding a mark, award

9 – 10 for a relevant,

perceptive

and balanced assessment

that eventually rejects one site

after having covered at least five factors;

7– 8 when one of the criteria above has not been satisfied;

5 – 6 when two of the criteria above have not been satisfied;

3 – 4 when the answer is badly flawed but contains some worthwhile material;

1 – 2 when there is little merit in the answer;

0 when there is no merit in the answer.

[10]

Any relevant content well above 100 words should be totally disregarded. Examiners should annotate script to indicate at that point. Too short an answer means that content will be inadequate.

| | | | |
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(c) Credit any plausible additional information on one of the three sites. Candidates are not required to write in support of their choice. Possibilities include the following:

- whether the Old Park toilets (1) could still be used by patients at the Quadale Junior School (1)
- whether anyone at Radtar House (1) could operate the lift for patients (1)
- whether extra lighting (1) could be installed at Radtar House (1)
- whether extra police could be on duty (1) for the duration round The Scala (1)
- whether extra transport could be laid on (1) for the duration to the other side of town (1)
- how far away from Radtar House (1) is the cheapest car park (1). **[2]**

Any relevant content well above 20 words should be totally disregarded. Examiners should annotate script to indicate at that point. Too short an answer means that content will be inadequate.

(d) Credit five of the following or any other valid desiderata.

- Patients should have a waiting room and toilet facilities (1) to put them at their ease. (1)
- The premises should be commodious enough (1) for doctors, nurses, support staff and supplies to work in comfort. (1)
- They should have their own car park (1) since patients cannot always rely on public transport. (1)
- They should be reasonably close to where most people live (1) so that not too much travelling is involved. (1)
- They should not be in a rough area (1) that might deter many potential patients (1)
- or where driving could be hazardous (1) and endanger those who visit the surgery. (1)
- They should be well lit (1) to enable medical staff to work effectively. (1)
- They should not extend to more than one floor unless they have a patient-friendly lift (1) which the old and/or infirm will be obliged to use. (1)

5 × 2 [10]

Award two marks for each developed desideratum; award one mark for anything proceeding on the right lines.

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- (e) The most obviously irrelevant points are 9 (doctors' university) and 14 (no cinema left) but candidates are free to make a case for any others.

Award marks as follows:

3 sound choice; sound justification;

2 suspect choice; reasonable justification;

1 sound choice; weak justification;

0 suspect choice; weak justification.

[3]

Any relevant content well above 30 words should be totally disregarded. Examiners should annotate script to indicate at that point.

3 (a) (i) EITHER:

To point out that the international dateline does not follow a direct line/moves from side to side

OR:

To hint that the international dateline has had to take into account many impediments that have obstructed its smooth course

OR:

To hint that the international dateline is not so inflexible as might first appear. (1)

- (ii) These are the countries Samoa was really interested in coming into closer contact with. (1)

- (iii) In the case of Samoa, only a minor adjustment to the dateline would be needed. (1) [3]

(b) Credit five of the following or any other valid points.

- There seems to have been some debate within Samoa about the details of the scheme
- whereas there appeared to be none in Kiribati ('We just did it').
- Samoa has given at least eight months' notice
- whereas Kiribati gave none.
- Samoa is anxious to consult the world at large
- whereas Kiribati presented a fait accompli.
- Samoa's decision so far has upset no-one
- whereas Kiribati's move was decidedly unpopular
- **They chose different dates (Samoa – 29 December and Kiribati – New Year's Day)**

5 × 1 [5]

Any relevant content well above 50 words should be totally disregarded. Examiners should annotate script to indicate at that point. Too short an answer means that content will be inadequate.

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| Page 8 | Mark Scheme | Syllabus | Paper |
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(c) Credit the following or any other valid points.

- A country (Samoa) might wish to have closer commercial ties **(1)** with other countries in the same area (Australia and New Zealand) **(1)**.
- It may wish to distance itself **(1)** from former trading partners (Samoa - U.S.A.) **(1)**.
- There might be a desire to make a country easier to run **(1)** and to prevent outlying areas from becoming too isolated (Russia - Siberia; U.S.A. – Hawaii; Kiribati) **(1)**.
- Patriotic motives **(1)** might inspire a country to promote its image as a separate entity (Venezuela). **(1)**
- A different system of reckoning time **(1)**, such as the natural day (Venezuela; France), might seem more attractive **(1)**.
- **It may wish to forge political links (1) plus valid development (1)**
- **It may want to overcome communication difficulties (1) plus valid development (1).**

5 × 2 [10]

Any relevant content well above 100 words should be totally disregarded. Examiners should annotate script to indicate at that point. Too short an answer means that content will be inadequate.

- (d) (i) The Pacific Ocean is on the opposite side of the globe to Greenwich. **(1)**
OR In relation to Greenwich, the dateline is 12 hours ahead/behind and 180 degrees removed, and that cuts through the Pacific Ocean. **(1)**
There are relatively few land masses to deflect the dateline. **(1)**
- (ii) Whereas there would be considerable confusion over a change at other times, **(1)** comparatively little would be created before a fresh start was made with the New Year **(1)**.
OR comparatively little would be created by ending the working week on Thursday **(1)** and then going straight into the weekend. **(1)**
- (iii) Unlike Samoa, American Samoa has not lost a day (December 30) by moving from east to west of the dateline. **(1)**

[5]

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(e) (i)

- imaginary: existing only in the mind, fictitious, unreal, made-up, hypothetical, not physical, can't be seen
- deviations: turnings aside, deflections, swervings, detours
- specify: detail precisely, spell out, define
- assert: state firmly, maintain stoutly, proclaim, declare
- straddled: bestrode, stood on both sides of
- standard: criterion, something by which other things are judged or measured, yardstick.

6 × 1 [6]

(ii)

- His fears are entirely imaginary for they have absolutely no foundation.
- The lane twisted and turned with many deviations until it reached the highway.
- You must specify the charges against them rather than engage in vague accusations.
- She'll assert her rights as vigorously as possible to whoever is prepared to listen.
- The bridge straddled the river until it was bombed.
- Their essays are superlative by any standard you choose to judge them by.

6 × 1 [6]