

MARK SCHEME for the October/November 2008 question paper

2217 GEOGRAPHY

2217/02

Paper 2 (Investigation and Skills), maximum raw mark 90

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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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Page 2	Mark Scheme	Syllabus	Paper
	GCE O LEVEL – October/November 2008	2217	02

Section A

- 1 (a) 1356 [1]
- (b) (i) Fish ponds [2]
 Bridge
- (ii) 1.6 – 1.8 [1]
- (iii) NW [1]
- (iv) Valley [3]
 Narrows and widens again / variable width
 Steep (side) slopes
 Slopes up to 500m
 River
 Tributaries
 Hills
 Low forest / woodland
 Scrub
 Sea
 Cultivation / Plantation
 Flat floodplain / valley bottom (must locate)
- (c) Sand / Mud [5]
 Headland
 Bay
 Bar
 Lagoon
 Island (not St Lucia itself)
Low Forest / Woodland / Scrub (Max 1 for vegetation)
 Steep slope (on M Pinard) / rises to 661 m / 500 m
Mouth of river
 Roads / buildings / bunker (Max 1 for human features)
- (d) Hotel 127/8 555/6/7 [2]
 Yacht club 129559
 Ruin 125/6 550/1
 Beach with grid reference at any location along beach
- (e) Coastal [3]
 Close to settlements / within town areas
 Scattered / dispersed
 Small(er) areas in north / most in SW/S
 Near river
 Lowlands
 Valley
 Mostly flat / gentle slope

Page 3	Mark Scheme	Syllabus	Paper
	GCE O LEVEL – October/November 2008	2217	02

- (f) No mark for GR but 0 if GR does not relate to a cultivated area.
Depends on square chosen but could include

Near river for water supply
Near river as can't build there due to flood risk
Lowland so accessible
Flat so easy to use machines / irrigate / won't erode
Close to settlement for labour
Close to settlement for food supply (for areas not labelled C)

[2]

[Max 20]

- 2 (a) Many / most in Asia / 9 in Asia / East Hemisphere
South / SE of Asia
Only one in Africa
3 in North America
2 in South America
Most / 8 in tropics / 7 between Tropic of Cancer and Equator / 7 outside tropics
On / near coast
None in Europe / Australasia / other appropriate areas
Most in LEDC
Most / 12 in Northern Hemisphere / north of Equator

Max 2 for numbers in specific continents

[4]

- (b) Tokyo / Mumbai / Mexico / Sao Paulo / New York

3 or 4 correct = 1 mark
All 5 correct = 2 marks

[2]

- (c) Dhaka / Lagos / Jakarta / Karachi / Delhi.

Correct identification and marking 3 of above

[3]

[Max 9]

- 3 (a) (i) On graph

[2]

- (ii) Japan
Costa Rica
Both needed for 1 mark

[1]

- (iii) Higher
India / Côte d'Ivoire / Congo
Egypt
Four

[4]

Page 4	Mark Scheme	Syllabus	Paper
	GCE O LEVEL – October/November 2008	2217	02

(b) (i) USA, Japan, Costa Rica, [1]

- (ii) USA is MEDC
 USA has more industries
 USA uses more energy
 USA has more domestic / industrial water use
 USA uses water for irrigation in dry areas
 USA has more cars per person
 USA more mechanised / technological society
 USA people travel more
 USA colder winters in some parts therefore more heating
 USA more use of air conditioning in summer
 USA wastes more energy
 USA has more resources so uses more per person

Or converse ideas for Costa Rica.
 Allow other relevant suggestions.

[3]

[Max 11]

- 4 (a) A has mountains / valley / hill / gorge
 A has interlocking spurs / meanders
 B has plain / flat land
 B has bare rock / cliff
 A has rounded slopes / steep slopes
 B has no vegetation in foreground
 A has forest / trees / bush / scrub
 B has trees and grass / savanna
 (Alternative to last 2 points
 A has more vegetation / B more open)

Must be at least one point from each photo

[4]

- (b) A – chemical/ biological
 B – biological/ chemical /physical

Accept named chemical processes
 Accept freeze thaw or exfoliation for physical weathering

[2]

- (c) Differences in rainfall
 Differences in temperature range
 (Alternative to last 2 points – differences in climate)
 Differences in geology
 Human use of land
 Tectonic / volcanic activity
 Vertical erosion compared to lateral erosion / river erosion

2 x 1 with 1 for development.

[3]

[Max 9]

Page 5	Mark Scheme	Syllabus	Paper
	GCE O LEVEL – October/November 2008	2217	02

- 5 (a) China [1]
- (b) (i) Italy [1]
- (ii) China [1]
- (c) China uses more coal / Japan uses less coal [3]
 China uses more HEP / Japan uses less HEP
 Japan uses more oil / China uses less oil
 Japan uses more gas / China uses less gas
 Japan uses more nuclear / China uses less nuclear
 Both have same % wind power
 Both have same % other sources
 China dominated by coal / both have coal as most used
 Japan has coal, gas and nuclear as similar %
- Max 1 for figures
- (d) HEP
 Wind
- Accept two first named if more than two given
 Accept solar, geothermal, biogas or wave if mention that this could be covered by 'other'. [2]
- (e) Wood or biomass [1]
- (f) High sunshine levels provides much potential solar energy [2]
 High rainfall in TRF or monsoon provides much potential HEP Energy
 can be generated locally
 Can be small scale / don't have to be expensive large schemes
 Water / wind / sun is free / no expensive imports
 No pollution / clean energy source

[Max 11]

Page 6	Mark Scheme	Syllabus	Paper
	GCE O LEVEL – October/November 2008	2217	02

Section B

- 6 (a) Cheap, frequently, work, open (1/2 correct =1; 3/4 correct = 2)
2 @ 1 mark [2]
- (b) (i) 'How did you travel here?/What mode of transport did you use?
Layout in boxes of different transport e.g. car, bus, walk
1 = Question (Not essential for expression to be in the *form* of a question),
1 = Choices (3 relevant exc. other),
1 for Layout (Boxes/grids or instruction that works e.g. circle)
3 @ 1 mark [3]
- (ii) Regular sampling/equally spaced sampling/e.g. every fifth person;
ref. to "Order" must be qualified.
1 @ 1 mark [1]
- (iii) Advantages e.g. not biased/fair test (1); easy/simple/faster (1)
1 @ 2 marks [2]
- (c) Complete proportional bar graph at 20%, 31% (51%), 17% (68%) and 32% with correct key.
Mark 1 per line then 1 for correct key.
4 @1 mark [4]
- (d) (i) 2.2/2.3 km
1 @ 1 mark [1]
- (ii) Bicycle – most within 0.5km/all within 1.5km/close to market hall
Bus – in lines away from market hall/grouped/clustered/certain directions/up to 2.2km
Car – from all directions/up to 2.2/2.3km away/most 0.5/2km
Walking – Close to market hall/most within 0.5km/up to 1km
References to 2.5km too vague. Distance or pattern OK.
4 @1 mark [4]
- (iii) Any sensible comment related to pattern of transport
e.g. people not prepared to walk/bike far/not far as uses up energy/walking is free/no parking fines; bus in lines due to routes/bus routes to where non-drivers live; cars more flexible means of transport
Maximum of 1 per means of transport.
2 @ 1 mark [2]

Page 7	Mark Scheme	Syllabus	Paper
	GCE O LEVEL – October/November 2008	2217	02

(e) (i) Sketch line to include all outer most points (can join up) and inwards at western side to at least 4km ring.
1 @ 1 mark [1]

(ii) Explain fully needs more than list; allow (1 + 1) for development.
e.g. Higher land/mountain restricts access/no one lives there;
Lake/sea may be there.
River may be there – hard to get over/access issues.
Poor roads – take too long.
Another/cheaper sports centre is competition;
Poorer area so cannot afford to travel/pay for sports.
4 @ 1 mark [4]

Maximum 2 for simple list

(f) Hypothesis – both are correct/partially correct 1
Aim – Sports Centre has greater range or Sports Centre has larger sphere of influence; 1.
Statements that support conclusion 2 maximum
Data that support conclusion 2 maximum
If use comparative data, both figures must be correct for 1 data mark.
6 @ 1 mark [6]

Maximum 4 if no data

7 (a) (i) See through/transparent; located on post not the ground; secure not easily knocked over; measurements on jar; not cylindrical; wider top; no funnel. Accept reverse.
1 @ 1 mark [1]

(ii) 2,1,4,3
(1/2 correct = 1; 3/4 correct = 2) [2]

(iii) Bar graph/histogram (1); dates and rainfall (1); x/y could be either in latter e.g. horizontal bar graph.
2 @ 1 mark [2]

(b) Arrow head: shows the direction from which the wind is blowing
Paddle: Larger surface area to push the arrow/catch the wind
Compass points: orientation of the wind vane/all 4 points/indicates the direction
Fixed on roof: not obstructed by building/secure/not sheltered/exposed/in open air.
4 @1 mark [4]

(c) Ideas should include detail of relief rainfall
Water evaporated from sea/moist winds; winds from west travel over sea; air forced to rise/air rises; air cools; air condenses;
relief/orographic rainfall
4 @1 mark

Maximum 2 if no relief reference

Page 8	Mark Scheme	Syllabus	Paper
	GCE O LEVEL – October/November 2008	2217	02

- (d) (i) Correct length of bars at 2 for E and 1 for N
2 @ 1 mark [4]
- (ii) Most common/most frequent direction of wind.
1 @ 1 mark [2]
- (iii) Lack of winds from NW/NE; equal days from E/SE; more days from W/SW; more from S than N; more from W than E; most from SW
OK. Must judge or compare.
3 @ 1 mark [1]
- (e) (i) Correct plotting of 1,3,4,5 on the SW line
(1/2 correct = 1 3/4 correct = 2) [2]
- (ii) Top box – anomaly/unusual/odd reading/student error/"only" once.
Side box – The highest rainfall/westerly wind brings rain/ in varying amounts of rain
Bottom box – No rain from these directions
3 @ 1 mark [3]
- None if just list days.
- (iii) Yes
1 @ 1 mark [1]
- (f) Longer time of investigation; twice each day; different season/month; measure wind speed; different instruments; traditional (accept "proper") rain gauge; compare to local weather station/other school/sites; more sites
- Credit mention of more reliable/more representative as development marks if they explain how their suggestions do this.
5 @ 1 mark [5]