# GEOGRAPHY (0460)

# PAPER 5

**Question 1**

(a) (i) A quadrat drawn to indicate frame with label;     2@ 1 mark   (2)
Strings/lines/divisions to divide area with label;     must have
label for 1 mark

(ii) quadrat placed along transect at intervals;
count/record number of squares of different material     2 @ 1 mark   (2)

(iii) advantages eg random/unbiased selection; larger area     single marks
covered;     max 2 for adv
disadvantages eg practical considerations; miss the area;     or disadv
biased by sun/other factors     (3)
*needs more than 'not fair' or 'unbiased'

(b) (i)
+ Bars completed on INSERT     2 marks if 3
(ii) Each Site worth 2 marks     correct boxes   (2)
'Box' correct if correct size and shading     1 mark if 1 or 2   +
* Could be marked from either end and in any order     correct boxes   (2)

(c) e.g. pebble % increases Site 1 – 3; fluctuating pebble % Site     3 marks for
4 – 6; Site 1 = 35% and Site 6 = 8%; % of sand increases     reason with ref.
Site 2 – 4 – 6; with general reference to the hypothesis     to figures and
hypothesis   (3)

(d) (i)
eg the steeper the gradient the higher the proportion of     4 @ 1 mark
pebbles; data of slope angle + beach material %; the flatter     Reserve 1
the slope the higher the proportion of dry sand; data of slope     mark for   (4)
angle + beach material %;     description

(ii) eg the greater the slope angle the larger the beach material
Must be one general statement linking angle and material     1 @ 1 mark   (1)
and no reference to Sites

(e) (i) Describe eg diameter/long axis/ variation/shape /roundness     single marking
Explain eg abrasion; hitting of other pebbles/attrition; rock     credit dev.
type of pebbles; wind erosion;     Max 3 marks
* not 'erosion' without development     on des. or exp.   (5)

(ii) layout of sheet with columns/rows for recording;     single marks
section for necessary information;
titles for columns/rows of weight/shape/size;     for max 6 must
frequency/number of pebbles     have separate
labels for any two of date/location of one site/time/name of     section for   (6)
recorder     necessary
information

Total : 30 marks

Question 2

(a)   Correct average score plotted at 4.4, 3.6, 3.4 and 2.0        2 marks all
      (to cross at correct Site)                                    correct
                                                                    1 mark 3 correct   (2)

(b)   (i)    Level 3 (4-5 marks) Specific comment on changes mentioning all 5
             parameters with consistent reference to the distance from the town    Level marking
             centre.
             Level 2 (2-3 marks) More general comment with reference to 2 - 4      (If no data then
             parameters and patterns of change.                                    cannot reach
             * list style = max 2 marks                                             Level 3)
             Level 1 (0-1 mark) Vague comment about the overall pattern or                             (5)
             mention of just one parameter.

      (ii)   any example of a noise source e.g. railway, factory, fire station,
             school, high number of people                          1 @ 1 mark         (1)

      (iii)  advantage e.g. easy to see overall pattern/easier to compare/general
             overview
             disadvantage e.g. cannot identify range of data/hides differences or
             extremes                                               2 @ 1 mark         (2)

      (iv)   Concluding statements e.g. data supports hypothesis ideas;
             exceptions;                                            2 @ 1 mark         (2)

      (v)    Any valid suggestions e.g. peeling paintwork, condition of
             road/pavement, graffiti etc.                           2 @ 1 mark         (2)
             *not 'population density' or just 'pollution'

(c)   Two or three reasonable geographical suggestions e.g. land use changes;    Single marking
      becomes less busy etc.                                                       credit
                                                                                  development      (3)

(d)   (i)    A correctly drawn and labelled bar graph. Allocate marks for         •  2 marks
             •  Correct bar length (290,143,179,122) +/- 5                        (2 or 3 correct for
                                                                                  1 mark)
             •  Correct layout of both axes                                       •  2 marks
             •  Correct labelling of both axes                                    •  1 mark         (6)
             •  Title of graph                                                    •  1 mark

      (ii)   Almost the same total volume/B>D total; B>D in the morning; D>B
             mid-day / evening                                      2 @ 1 mark         (2)
             *If list figures then no mark

      (iii)  e.g amount of traffic decreases with distance from the town centre;
             hypothesis not totally correct as increase at C;       1 @ 1 mark         (1)

(e)   e.g. Centres of towns are most accessible; people work there; CBD; use of   4 @ 1 mark
      shops/buildings all day; etc.                                               credit
                                                                                  development      (4)


                                                                    Total 30 :  marks