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1 (a) (i) $\begin{aligned} & \text { 60/61 years, } \\ & 39 / 38 \text { years }\end{aligned}$
$\underline{2}$ at 1 mark
(ii) $\quad \mathrm{X}$ birth rate well above death rate, $\mathbf{Y}$ as above but then reduction in growth, increased death rate/declining birth rate, $Z$ birth rate above death rate, then decline/BR similar to DR.

3 at 1 mark
(b) (i) tradition,
religious pressures,
zeal for son - inheritance,
ignorance of large sectors of the population on need to reduce B.R/
low literacy rate/awareness,
difficulties of instituting family planning policies, size of country/dispersed nature of population, expense of introducing family planning policies, lack of/unpopularity of abortion/sterilisation, pressure in rural areas - need children to work on farms, large number of children to look after parents in old age, high infant mortality - hence large families.

4 at 1 mark
(ii) prevent overpopulation,
avoid increase in dependency ratio,
lowering of living standards,
poverty,
shortages - water/land,
reduce risk of
greatly increased demand on resources, high levels of unemployment,
famine/food shortages,
malnutrition,
decline of infrastructure - e.g. roads, inadequate housing/squatters,
exhaustion of soil,
inadequate educational facilities,
lack of health facilities,
possible civil unrest
4 at 1 mark
(iii) better medical facilities, more food,
improved diets less malnutrition, housing improvements, improvements to water/sanitation, more spending on older people, education/awareness of need to look after the body/exercise etc.

4 at 1 mark
(c) (i) 5-9 years
(ii) depend economically on the 15-64 years/working population.

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(iii) broad based pyramid - progressive, large percentage below 15 years, small population over 65 , $0-4$ narrower than 5-9, credit reference to the shape of the pyramid, no credit for references to birth rate/death rate.

## 3 at 1 mark

(iv) narrowing/reduction in youngest age groups -
lowering of birth rate,
increase in over 65s -
increase in life expectancy/reduction of death rate,
increase in 15-64 year olds -
reduction in young age groups.
3 at 1 mark
2 (a) (i) CBD or rural-urban fringe.
(ii) land too expensive in CBD,
planning control in rural-urban fringe/urban area not grown
out this far yet.
(iii) superstore-1,
district shopping centre -2 ,
row of shops - 5 ,
small shops - 8/9.
(iv) size,
sphere of influence/threshold differences,
order of services - convenience/durable goods.
$\underline{2}$ at 1 mark
(v) out-of-town/not surrounded by residential areas,
larger,
has area around store - parking,
near major road junction,
higher order shop/needs large threshold/sphere of influence,
room for expansion.
3 at 1 mark
(vi) large area,
spacious layout/large car parking area,
away from congestion,
possibly room to expand,
possibly cheaper land,
near road junction - outer ring road and road from CBD,
proximity to large residential area.
3 at 1 mark
(vii) $\mathbf{Z}$ - more main roads,
grid-iron/rectangular pattern.
(viii) older,
less planning in area $\mathbf{Z}$.

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(b) For each choice:

| description |
| :--- |
| reason |
| $\underline{2+1+1 \text { mark }}$ |
| $\underline{2 \text { marks }}$ |

(c) (i) shortage of land in the CBD
limited space,
great demand for location in the CBD -
shops/offices,
centre of city - convergence of routes,
large number of workers,
rush hours.
housing shortages
large population,
urbanisation/large numbers of migrants,
building programmes cannot keep pace with demand.
traffic congestion
increase in urban population, preference for private transport, commuting,
rush hours.
For the chosen problem
2 at 1 mark
(ii) shortage of land in the CBD
encourage activities to locate away from city centre,
skyscrapers,
reclamation,
urban renewal.
housing shortages
build more houses,
develop new towns/satellite towns,
encourage movement away from city.
traffic congestion
encourage traffic away from city centres/by-pass roads, promote public transport,
new public transport developments - mass rapid transport systems,
stagger working hours,
urban motorways/freeways,
encourage out of town parking,
charges for entry to city centre,
roundabouts NOT traffic lights.
Credit reference to actual examples to illustrate MAX. 1 mark
4 at 1 mark
3 (a) (i) material carried by river - sand, stones, mud etc.
(ii) three of: suspension, solution, saltation, traction load.

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(iii) loss of energy, insufficient water/small volume, especially during dry season, shallowing of channel/braiding, inner/convex bank of meander, river enters still water of lake/sea, decrease in velocity, lessening of gradient below waterfall, river carries more load than it can transport.
(b) (i) straighten its course.
(ii) $\quad \mathrm{Q}$
cliff at $\mathbf{A}$, slip-off slope at $\mathbf{B}$, opposite at $\mathbf{R}$,
symmetrical channel at $\mathbf{P}$.
4 at 1 mark
(iii) outer/concave bank - more volume, greater velocity, more erosion - undercutting, bank collapse - steep slope.
inner/convex bank - less volume, less velocity,
deposition - slip-off slope.
2 at 1 mark
(c) (i) west/NW/WNW.
(ii) 2 km .
(iii) three of:
waterfall - resistant rock/cap rock, level topped,
high,
river splits over waterfall, river shallow above waterfall, deposition above the waterfall/islands with vegetation, turbulence, gorge/very steep sides/cliff, gorge meanders,
deposited rock fragments - side of gorge, gullies.

3 at 1 mark
(iv) interruption of river transport - waterfall, problem of bridging the gorge,
road bridge carrying main road from settlement of Victoria Falls, tourism - hotels,
employment, contributed to growth of settlement, hydro-electric power.
(d) (i) resistant cap rock, underlying softer rock eroded, eddying/plunge pool, undercutting, by splashback.

$$
3 \text { at } 1 \text { mark }
$$

(ii) unsupported,
collapse,
retreat leaving gorge
2 at 1 mark
4 (a) (i) temperatures:
high temperatures all year/every month $20^{\circ} \mathrm{C}-30^{\circ} \mathrm{C}$, low annual range $6^{\circ} \mathrm{C}$, highest temperature - May $29^{\circ} \mathrm{C}$.
$\underline{2}$ at 1 mark

## rainfall:

high annual rainfall, highest Dec. 270-280mm, lowest rainfall Feb, May and Sept. about 180 mm , no dry season.

2 at 1 mark
(ii) A emergents/upper layer,

B canopy layer,
C lianas,
D buttress roots/undergrowth/shrubs.
4 at 1 mark
(iii) lack of sunlight.
(iv) three of:
tall trees compete for sunlight,
little undergrowth - lack of sunlight,
heavy rainfall/high temperatures - prolific growth,
evergreen - no seasonal rhythm,
drip tips/waxy leaves/allow water to flow off quickly, shallow roots - high rainfall - water in top layer of soil.

3 at 1 mark
(b) (i) $14 \%$
(ii) timber,
farming/cattle ranching, roads.
(iii) no - marks for two reasons
trees gone,
empty fields,
pasture overgrown,
decline in cattle rearing,
farming unprofitable.

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(iv) increased run-off, rivers - more volume - flooding nutrient cycle broken/interrupted, no roots to absorb nutrients from soil, no replacement of nutrients with leaf fall and decay, loss of nutrients to soil, leaching by heavy rainfall, higher rate of surface run-off with loss of nutrients, loss of species, animals die - loss of habitats, may become extinct, burning - contributes to global warming.

## 4 at 1 mark

(c) n.b. other natural environments acceptable as well as tropical rain forest,
with economic developments natural areas becoming less, preserve the ecosystem,
prevent loss of species - plant and animal,
tourist potential,
control problems -
flooding,
soil erosion,
global warming etc.
4 at 1 mark
5 (a) (i) A $9 / 8 \%$,
B 60\%.
$\underline{2}$ at 1 mark
(ii) X more in tertiary,
more in secondary/manufacturing,
less in primary.
3 at 1 mark
(iii) $\mathbf{X}$ developed countries - $\mathbf{Y}$ developing,
$\mathbf{Y}$ greater dependence upon agriculture,
agriculture in $\mathbf{X}$ more mechanised,
$\mathbf{X}$ developed manufacturing C19-C20, Y developing manufacturing,
$\mathbf{X}$ more developed economies - greater demand for services,
$\mathbf{X}$ greater amount of skill/educated/trained labour force,
$\mathbf{X}$ more capital for investments.
3 at 1 mark
(b) (i) vehicle constructed by adding components on an assembly line, inputs - what goes into assembly

- components and raw materials, labour etc.
$\underline{2}$ at 1 mark

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(ii) A cheaper production/skilled labour.

B reduce transport costs.
C assembly line/mass production, storage of raw materials, finished vehicles, parking for workers, room for possible expansion.

2 at 1 mark
D mass production,
some skilled labour - component production,
semi-skilled/unskilled - assembly work,
office work, transport.
$\underline{2}$ at 1 mark
(c) (i) named example - crop/system.
(ii) for each of three of transport, capital, labour, markets

Reserve $1+1+1$ marks
additional marks $\underline{2 \text { marks }}$
(iii) processes - e.g. sowing, transplanting seedlings etc.

3 at 1 mark
n.b. for a general account allow 3 MAX for processes ONLY

6 (a) (i) 20\%
(ii) coal.
(iii) less pollution, both are renewable sources of energy.
(iv) A wind not constant, noise.

B sun's energy varies, difficult to store.

1 mark
allow cost/visual pollution in either $\mathbf{A}$ or $\mathbf{B}$
(v) high cost,
oil/natural gas provide more energy,
competition with renewable forms of energy,
declining reserves,
non renewable,
pollution - allow development up to $\underline{2 \text { marks }}$
3 at 1 mark
(b) plentiful supply, transportable supertankers/pipelines.

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(c) advantages
less pollution than coal, large reserves of uranium, low running cost.

Reserve 2 marks

## problems

concerns over safety/possible accidents, Chernobyl, radio-activity - health problems, difficulty of storing/disposing of nuclear waste, nuclear power stations take a long time to build, expensive to dismantle, competition with renewables.
additional mark for either
Reserve 2 marks
addional 1 mark
(d) (i) named region/country - reference only (no marks for name)
income,
employment directly,
other related employment - building, transport etc., diversifies economy, preservation of cultural heritage, improved standard of living, better cultural understanding, preserves natural environment, tourist facilities can be used by local people, prestige for country.

5 at 1 mark
(ii) A area ( allow national parks in general)

B publicity,
education/awareness,
planning control,
develop nature tours,
encourage activities which are compatible with nature -
bird watching, jungle trekking, rafting etc.
establish national parks/forest parks etc.

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1 (a) (i) steep rise in population up to 1999, constant/steady growth, almost trebled 1950-99, varied estimates over the next 50 years, high estimate will almost double again, low estimate will level out at about 7 billions from 2020.

3 at 1 mark
(ii) $\mathbf{X}$ birth rate well above death rate, continues to grow rapidly.
$\mathbf{Y}$ as above but then reduction in growth, increased death rate/declining birth rate.

2 at 1 mark
(iii) $\mathbf{Z}$ birth rate above death rate, then decline - lowering of birth rate, reasons for low birth rate.

2 at 1 mark
(b) (i) A reduction in birth rate -
birth control/contraceptives, abortion sterilisation, education about family planning/awareness/advertisements, reward examples e.g.
China's one-child policy, salary bonus - 10\%, priority in education/health facilities/employment/housing, fines - 2nd child/annual tax, MAX 1 mark details - one child policy, death rate higher than birth rate in some countries, emancipation of women etc.
fall in birth rate - ageing population.
credit references made to rise in birth rate also.
B fall in death rate better medical facilities, more food, improved diets less malnutrition, housing improvements, more spending on older people, education/awareness of need to look after the body/exercise etc. increase in death rate in some countries aids etc.,

For each of $\mathbf{A}$ and $\mathbf{B}$
Additional mark for either

Reserve $3+3$ marks
1 mark

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(ii) overpopulation, increase in dependency ratio, pressure on services - electricity/gas/sanitation etc., lowering of living standards, poverty, greater demand on resources, high levels of unemployment, famine/food shortages, malnutrition, decline of infrastructure - e.g. roads, inadequate housing/squatters, shortages - water/land, exhaustion of soil, lowering of educational facilities, lack of health facilities, possible civil unrest etc.

5 at 1 mark
[5]
(c) broad/wide based pyramid - progressive, large percentage below 15 years, small population over 65 , 0-4 narrower than 5-9, reference to shape, high dependency ratio.

## Reserve 2 marks

high birth rate, low life expectancy/high death rate, lowering of birth rate.

Reserve 2 marks

MAX reference to reasons for high $B R$ and high DR $\quad \underline{\underline{1 \text { mark }}}$| additional marks |
| :--- |$l$

2 (a) (i) A large area,
spacious layout/large car parking area,
away from congestion,
possibly room to expand,
possibly cheaper land,
near road junction - outer ring road and road from CBD, proximity to large residential area.

4 at 1 mark
$B$ junction of roads,
in large residential area, away from CBD.

3 at 1 mark
(ii) more local stores - convenience goods,
small sphere of influence/low threshold, fewer district shopping centres - competition, need larger threshold, most of local shops - in older residential areas.

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(iii) Area $\mathbf{Z}$ older, grid-iron/rectangular layout, less planning.
$\underline{2}$ at 1 mark
[2]
(b) description/location

Reserve 1 mark
reasons
additional mark
Reserve 2 marks
For each choice
1 mark
$4+4$ marks
(c) to prevent urban sprawl, protect agricultural land, provide open space around town/city - recreation, prevent joining up of neighbouring towns/cities, formation of conurbations, credit reference made to measures such as green belts, towns/cities in developing countries - prevent development of squatter settlements.
no credit for examples.
5 at 1 mark
3 (a) (i) description of -
suspension,
solution,
saltation, traction load.
2 names only without description
1 mark
4 at 1 mark
[4]
(ii) loss of energy, insufficient water/small volume, especially during dry season, shallowing of channel/braiding, inner/convex bank of meander, river enters still water of lake/sea, decrease in velocity, lessening of gradient -
below waterfall.
river carries more load than it can transport,

$$
4 \text { at } 1 \text { mark }
$$

(b) (i) waterfall - resistant rock/cap rock,
level topped,
high,
river splits over waterfall, river shallow above waterfall, deposition above the waterfall/islands with vegetation, turbulence,
rapids,
gorge/very steep sides/cliff,
gorge meanders,
deposited rock fragments - side of gorge,
gullies.
6 at 1 mark

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(ii) interruption of river transport - waterfall, problem of bridging the gorge,
road bridge carrying main road from settlement of Victoria Falls, tourism - hotels, employment, contributed to growth of settlement, hydro-electric power.

5 at 1 mark
(c) resistant cap rock, underlying softer rock eroded, eddying/plunge pool, undercutting, erosopnal processes MAX 1 mark by splashback, unsupported, collapse,
retreat leaving gorge.
6 at 1 mark
[6]
4 (a) (i) high temperatures all year/every month $20^{\circ} \mathrm{C}-30^{\circ} \mathrm{C}$, low annual range $6^{\circ} \mathrm{C}$, highest temperature - April $29^{\circ} \mathrm{C}$, high annual rainfall, highest Dec. 270-280 mm,
lowest rainfall Feb, May and Sept. about 180 mm, no dry season.

$$
4 \text { at } 1 \text { mark }
$$

(ii) emergents $40-45 \mathrm{~m}$, canopy layer $30 \mathrm{~m}+$, crowns interlock, lianas, epiphytes attached to branches/trunks, tall trees, straight trunks, first storey 15-20m, bark smooth, little leaf litter/undergrowth, trees close together, buttress roots, ferns, herbs and low growing plants, fungi, trees have broad leaves,
drip tips, waxy/leathery leaves, shallow roots, evergreen forest.

5 at 1 mark
(iii) tall trees compete for sunlight, little undergrowth - lack of sunlight, heavy rainfall/high temperatures - prolific growth, evergreen - no seasonal rhythm, drip tips/waxy leaves/allow water to flow off quickly, shallow roots - high rainfall - water in top layer of soil.

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(b) (i) A loss of forest,

14\% Amazonia last 10 years, usable timber trees gone, empty fields, pasture overgrown, decline in cattle rearing, farming unprofitable.

3 at 1 mark
[3]
B less interception, more percolation, increases flow into rivers by throughflow, increased run-off, rivers - more volume - flooding, nutrient cycle broken/interrupted, no roots to absorb nutrients from soil, no replacement of nutrients with leaf fall and decay, loss of nutrients to soil, leaching by heavy rainfall, higher rate of surface run-off with loss of nutrients, loss of species, animals die - loss of habitats, may become extinct, burning - contributes to global warming.

$$
4 \text { at } 1 \text { mark }
$$

(ii) n.b. other natural environments acceptable as well as tropical rain forest.
with economic developments becoming less, preserve the ecosystem,
prevent loss of species - plant and animal,
tourist potential,
control problems -
flooding,
soil erosion,
desertification,
global warming etc.

$$
5 \text { at } 1 \text { mark }
$$

5 (a) | $\mathbf{Y}$ greater dependence upon agriculture, |
| :--- |
| $\mathbf{X}$ developed countries, $\mathbf{Y}$ developing countries, |
| agriculture in $\mathbf{X}$ more mechanised, |
|  |
| $\mathbf{X}$ developed manufacturing $\mathbf{C 1 9 - C 2 0 , ~} \mathbf{Y}$ developing manufacturing, |
|  |
| $\mathbf{X}$ more developed economies - greater demand for services, |
|  |
| $\mathbf{X}$ greater amount of skill/educated/trained labour force, |
| $\mathbf{X}$ more capital for investments. |

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(b) labour - large labour force required, assembly line, skilled/semi-skilled, components - large number, central location - assembling from many subsidiary factories, raw materials - availability of sheet steel etc,
siting factors - large area large factory, storage, parking, level land, capital - large-scale production, factory, purchase/storage large quantities of components/raw materials, large labour force - salaries,
transport -
bringing components,
vehicles - markets,
assembling of large number of workers,
markets -
home/regional,
export details.
named location 1 mark
for each of 4+ factors 9 at 1 mark
(c) credit crop names/locations if given, RES and MAX 1 mark for each of natural inputs, human inputs, outputs/markets,
processes, capital. Reserve 2+2+2 marks
crops/outputs MAX 3 marks
6 (a) (i) cost,
concerns over safety/radio-activity,
difficulty of storing/disposing of nuclear waste, nuclear power stations take a long time to build, expensive to dismantle, limited life of power stations, competition with renewables.
(ii) decline in reserves,
competition with oil/natural gas,
competition with alternative sources of energy, high cost,
pollution - if developed up to $\underline{2 \text { marks. }}$
5 at 1 mark
(iii) renewable,
little pollution, lower running costs, improved technology, security of supply - countries do not rely on others, some units small scale serve local areas - cut down on transport costs, short construction times, countries may cut down on costly oil imports.

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(b) (i) named natural area

1 mark
natural attractions
3 at 1 mark
other reasons e.g. accessibility
MAX 2 marks
[4]
(ii) help control: loss of natural landscape, natural attractions of area, up to 2 marks prevent over-development of infrastructure - roads, airports, hotels etc.,
up to 2 marks cut loss of natural habitats, check pollution
up to 2 marks
general benefits e.g. employment
MAX 2 marks
4 at 1 mark
(iii) publicity, education/awareness, planning control, develop nature tours, encourage activities which are compatible with nature bird watching, jungle trekking, rafting etc. establish national parks/forest parks etc.

4 at 1 mark

1
(a) (i) (estate) office.
$=1$
(ii) 187376 or $186376 . \quad$ (Reversed or wrong square $=0)=1$
(b) (i) north-east.

$$
=1
$$

(ii) $2650-2800$.

$$
=1
$$

(c) forest,
low forest/woodland, scrub, palms.
(d) banana and coconut.
(e) forest, narrow/deep valleys, highland/hilly/mountains, steep slopes, no flat land/all slopes/lack of flat, no/lack of roads/few, scrub/low forest/woodland. 4 at $1=4$
(f) hospital/health, school/education, church/religion, post (office), police (station)/law, cemetery, public works department, 2 services = 1 mark water.

$$
3 \text { at } 1
$$

$$
=3
$$

(g) $\mathrm{mud} / \mathrm{sand} / \mathrm{beach}$, peninsula/point/headland, bay/cove, island/stack, cliffs, river mouth, wave cut platform, blow hole,
(extract from place names).
4 at 1
2 (a) P - mercury/alcohol,
Q - muslin/gauze,
R - wick/string/cord,
2 correct for 1 mark
S - water/reservoir/jar/bottle.

$$
2 \text { at } 1
$$

$$
=2
$$

(b) $\quad 4^{\circ} \mathrm{C}$,
dry bulb temp. minus wet bulb (temp) $/ 25\left({ }^{\circ} \mathrm{C}\right.$ ) minus $21\left({ }^{\circ} \mathrm{C}\right)$.
$=1$
$=2$
(c) $70 \%$ =1

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(d) amount of water (vapour) in air expressed (as a \%) of what the air could hold (at a given temperature).
$=1$
3 (a) $\quad A=4$
$B=1$
2 at $1=2$
(b) (i) low birth rate low death rate, even shaped pyramid,
few young many old.
(ii) high birth rate high death rate, wide base narrow top, many young few old, progressive.
= 1
(c) Stage $1 /$ Stage 4 , death rate higher than birth rate, more die than are born.

Stage and reason
$=1$
(d) $\quad 2$,
biggest difference between birth and death rate.

4 (a) 2 correctly positioned lines.
(b) $\quad 70(\%)$.
Both answers $=1$
(c) $\quad \mathrm{B}$
$=1$
more primary/high,
less secondary/few/smaller, less tertiary/few.

2 at $1=2=3$
5 (a) enlarged in size/more buildings/added riding stables.
= 1
(b) commuters.
(c) school, shop,
post office, bus stop.
(d) riding stables, restaurant,
car park.
(2 services for 1 mark)

$$
2 \times 1=2
$$

6 (a) (i) section/part of earth's crust/surface layer part of earth floating on mantle.
(ii) Nazca,

South American,
Antarctic.

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(iii) pulling apart/diverging
/separating/spreading. $=1$
(b) (i) epicentre. $=1$
(ii) city,
greatest intensity/nearest epicentre/above origin.

2 at $1=2$
(iii) bursting of dam/loss of water supply/damage,
flooding,
tidal waves,
break in communications/motorway,
damage to boats/port, landslides, damage to bridge. 2 at $1=2$

7 (a) by-pass/motorway, (outer) ring road. 2 at $1=2$
(b) bus lanes.
(c) (light/electric) railway/trains, park and ride, limited access/no private cars, pedestrianised streets, (inner) ring road, multi-storey, car parks.

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1 (a) Name of student/group; date; time; weather; site number/location of recording

3 at 1 mark
(b) e.g. SW Path and NE Path becomes narrower overall; (1.9-0.3m) (1.90.2 ) - no comparison required

2 at 1 mark
Single point marking Res mark for across site/distance from IC.

Max 4 if no data
[6]
(ii) Unrepresentative site location; student inaccuracy in measuring/recognising bare ground; location of the centre of the path; no relief detail known

2 at 1 mark
(d) (i) The number of visitors will change during the day; to gain a representative sample
(ii) Tally counts
(iii) 400 m ; total result highest at 400 m ; over 400 m numbers rapidly decline
(e) (i) Trampling by feet; reduction in growth; removal of vegetation/plants/roots; roots no longer hold the soil together; susceptible to soil erosion by wind and water

5 at 1 mark
1 at 1 mark
3 at 1 mark
res 1 mark for distance
credit data
(ii) Information Centre - 400 m SW centre of path; use alternative routes to let plants recover; fence off area; put down wooden boards/tarmac
(f) At each 200 m site; design recording sheet; design environmental survey with scoring system; plenty of litter = high score/little little - low score

3 at 1 mark
res 1 mark for suggestion

4 at 1 mark res 1 mark for location of survey
[3]

Total 30 marks

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2 (a) (i) The order of settlement;
(ii) No of services/traffic volume increases/decreases; Population increases; area increases
(b) (i) Data which the candidate did not collect/not primary first-hand collected data but collected by someone else e.g. map/census/weather station data
(ii) e.g. Settlement A has basic services of Church, Postal Agency, School; Settlement B and C have different services in addition to the basic services
(c) (i) Correct plotting of data on scattergraph:
$A=4,38 \quad B=7,76 \quad C=14,210$
(ii) As transparency best fit Line
(d) (i) Appropriate route way; appropriate extent of settlement
(ii) Not to miss traffic; reference to linear or nucleated settlement patterns
(iii) Different day; different time; different weather; representative sample/true picture/accurate/different traffic volume
(e) Correct construction and completion of bar graph
Axis number/divisions; labelling of both axes;
Title appropriate; correct bars (i.e. 2, 10,56 );

Hypothesis true/correct; Comment in support using both traffic and services data concerning Settlements A, B and C focusing on the size of settlements and the number of services not type

2 at 1 mark
1 mark definition
1 mark example
[2]
[2]
1 mark [1 mark]

3 at 1 mark res 1 mark des/exp

3 at 1 mark for correct plotting
2 marks if accurate 1 mark if within 2 mm

2 marks for each settlement type
Max 1 if no diagram
1 mark for simple credit development

2 at 1 mark res 1 mark for when and 1 mark for why

5 at 1 mark
4 at 1 mark res 1 mark for decision res 1 mark for traffic and services comment Max 3 mark if no ref to data

Grade thresholds taken for Syllabus 0460 (Geography) in the June 2003 examination

|  | maximum mark available | minimum mark required for grade: |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | A | C | E | F |
| Component 1 | 75 |  | 39 | 30 | 20 |
| Component 2 | 75 | 50 | 28 | 17 |  |
| Component 3 | 60 | 46 | 35 | 27 | 22 |
| Component 5 | 60 | 43 | 33 | 19 | 15 |

The threshold (minimum mark) for $B$ is set halfway between those for Grades $A$ and $C$.
The threshold (minimum mark) for $D$ is set halfway between those for Grades $C$ and $E$.
The threshold (minimum mark) for $G$ is set as many marks below the $F$ threshold as the $E$ threshold is above it.

Grade A* does not exist at the level of an individual component.

