

# HIGHER GEOGRAPHY CHECKLIST

## ATMOSPHERE

1. Why is there a net gain of solar energy at the tropics and a net loss towards the poles.
2. Describe and explain the earth's heat budget.
3. Describe and explain global circulation cells and wind patterns.
4. Describe and explain the pattern of ocean currents.
5. Describe and explain the reasons for recent global temperature changes.
6. Describe and explain the climate of west Africa. Mention ITCZ, the origin and characteristics of mT and cT air.

## LITHOSPHERE AND RURAL LAND RESOURCES

7. Describe and explain the following glacial features
  - a) Corrie, arête, pyramid peak
  - b) U shaped valley, truncated spur
  - c) ribbon lake
  - d) hanging valley
  - e) crag and tail
  - f) terminal moraine
  - g) boulder clay, outwash
  - h) drumlin, esker.Identify these features on an OS map.
8. Describe man's use of glaciated areas.
9. Describe and explain the following limestone features
  - a) pavement, clints, grykes
  - b) cave, stalagmite, stalactite
  - c) scar
  - d) dale
  - e) gorge
10. Describe man's use of limestone areas.
11. For each of the following coasts be able to describe it, explain its formation, comments on its usefulness and given an example
  - a) Headland and bay
  - b) wave cut platform
  - c) sand spit and lagoon
  - d) ria
  - e) raised beach
12. Describe and explain the following types of weathering
  - a) frost shattering (freeze/thaw)
  - b) exfoliation
  - c) pressure release
13. Know the main facts about mass wasting (movement).
14. For the Lake District know the factors which limit human activity and economic development.
15. Describe the factors affecting visitors numbers to National Parks.
16. Explain how land ownership causes problems in National Parks.
17. Argue the case for and against Scottish National Parks.

18. Explain EU schemes and their effects on farmers.
19. Give details on conflicts in National parks. For each conflict explain the advantages of the area and arguments for and against and solutions.

### **HYDROSPHERE**

20. Draw and explain the water cycle.
21. Explain the balance within the water cycle.
22. Describe a river basin as a system.
23. Analyse a storm hydrograph.
24. Explain the factors which affect a storm hydrograph.
25. Explain the formation of
  - a) waterfalls
  - b) meanders
  - c) ox-bow lake.
26. Describe the difference between upper, middle and lower sections of a river.
27. Describe methods of erosion, transportation and deposition.
28. Describe rejuvenation.

### **BIOSPHERE**

29. Describe the main factors which affect soil formation.
30. Define zonal, azonal, intrazonal and catena.
31. Describe and explain the formation, location, profile and potential of
  - a) gley
  - b) brown forest soil
  - c) podzol.
32. Describe and explain plant succession. Mention all stages and especially climax vegetation.
33. Describe in detail plant succession in sand dunes.

### **POPULATION**

34. Describe the difficulties in carrying out a census in a Less Economically Developed Country.
35. Define the following
  - a) Crude Birth Rate
  - b) Crude Death Rate
  - c) Infant Mortality Rate
  - d) Life Expectancy
36. Describe and explain, in detail, the demographic transition graph.
37. Recognise, describe and explain population pyramids for ELDC and EMDC. Describe and explain the problems associated with each type of pyramid.

38. Explain migration push and pull factors between countries and within countries. Describe and explain two examples of international migration – one forced and one voluntary.
39. Explain the advantages and disadvantages that migration brings to both receiving and losing countries.

### **DEVELOPMENT & HEALTH**

40. Explain several development indicators.
41. Explain differences between developing countries.
42. Explain differences within a country.
43. List factors which lead to malnutrition.
44. List factors which cause sanitation and water supply problems.
45. For malaria
  - a) explain factors which cause the disease to spread
  - b) describe methods used to control the disease
  - c) comment on the success of control methods
  - d) suggest the benefits to a country in dealing with malaria.
46. Describe and explain the main causes of death in an EMDC and how these can be tackled.
47. Describe the main elements of Primary Health Care. Give reasons why Primary Health Care may be appropriate in Less Economically Developed Countries.

### **RURAL**

48. For i) Shifting Agriculture, ii) Intensive Peasant Farming, iii) Commercial Farming you should
  - a) Describe the type of farming
  - b) Describe farming methods
  - c) Describe the settlement pattern
  - d) Explain population density
  - e) Describe recent changes

### **INDUSTRY**

49. Know the 4 different types of industry, with examples.
50. Describe industry as a 'system'.
51. Identify and explain 10 industrial location factors.
52. Describe and explain the growth and decline and regeneration of industry in Central Scotland. Describe the social, economic and environmental effects of industrial decline.
53. Describe and explain old and new industrial landscapes.
54. Explain how foreign companies are attracted to Central Scotland.

## **URBAN & URBAN CHANGE AND ITS MANAGEMENT**

55.
  - a) Identify and describe the functions of settlements
  - b) Describe and explain the shape and growth of settlements.
56. Describe and explain 3 urban models.
57. Describe each zone of a city and explain its location.
58. For Glasgow
  - a) Explain its location and growth
  - b) Describe the problems of housing and industry in the city
  - c) Describe how these problems are being tackled.
59. Explain traffic problems and solutions in Glasgow.
60. Describe and explain problems of the CBD and inner city Glasgow.
61. Explain why people moved outwards from Glasgow and the conflicts this caused at the edge of the city.
62. Describe efforts made to reverse this trend.
63. Describe and explain the location and growth of Sao Paulo.
64. Describe the problem's of Sao Paulo.