

## Answers to multiple-choice questions

The correct answer to each question is shown in **bold font**.

### Section 4: Patterns in resource consumption

- 1 The measure of humanity's demands on the natural environment devised in 1990 by Wackernagel and Rees is the:
  - A socio-economic footprint
  - B Human Development Index
  - C environment index
  - D **ecological footprint**
  
- 2 The capacity of an ecosystem to generate an ongoing supply of resources and to absorb its wastes is known as:
  - A **biocapacity**
  - B ecological capacity
  - C environmental capacity
  - D carbon capacity
  
- 3 One hectare of biologically productive space with world average productivity is:
  - A a world hectare
  - B a continental hectare
  - C **a global hectare**
  - D an imperial hectare
  
- 4 Which group of countries has the highest carbon footprint?
  - A least developed countries
  - B newly industrialised countries
  - C **developed countries**
  - D developing countries



- 5** What is said to occur when humanity's demand on nature exceeds the biosphere's regenerative capacity?
- A excess demand
  - B overshoot**
  - C over-supply
  - D environmental excess
- 6** The considerable increase in food production due to high-yielding variety seed programmes is known as the:
- A Farming Revolution
  - B Technological Revolution
  - C Seed Revolution
  - D Green Revolution**
- 7** The idea of optimum population has been mainly understood from the point of view of:
- A economics**
  - B politics
  - C sociology
  - D history
- 8** Resource pessimists are often referred to as:
- A neo-fascists
  - B neo-liberals
  - C neo-conservatives
  - D neo-Malthusians**



- 9 The relative contribution of different energy sources to a country's energy consumption/production is known as its:
- A energy compound
  - B energy package
  - C **energy mix**
  - D energy product
- 10 At one time all of Britain's trains were powered by:
- A **coal**
  - B oil
  - C gas
  - D hydro-electricity
- 11 Which energy source contributes most to global energy consumption?
- A coal
  - B **oil**
  - C gas
  - D hydro-electricity
- 12 The relative importance of hydro-electricity is greatest in:
- A Asia
  - B Europe
  - C North America
  - D **South and Central America**
- 13 The Middle East accounts for approximately what proportion of global proved oil reserves?
- A 20%
  - B 40%
  - C **60%**
  - D 80%



- 14** Energy consumption is rising at the fastest rate in:
- A developed countries
  - B newly industrialised countries**
  - C developing countries
  - D least developed countries
- 15** The organisation whose prime concern is predicting the peak of global oil production is:
- A OPEC
  - B NAFTA
  - C ASPO**
  - D WTO
- 16** Which is the world's second largest oil-producing country, after Saudi Arabia?
- A USA
  - B Iran
  - C China
  - D Russia**
- 17** Gas flaring in which energy location is the world's single largest source of greenhouse gas emissions?
- A Niger delta**
  - B Gulf of Mexico
  - C Persian Gulf
  - D Venezuela
- 18** Which country leads the world in the use of nuclear electricity?
- A Russia
  - B France
  - C USA**
  - D Germany



- 19** In 2007 the world leader in wind energy capacity was:
- A USA
  - B China
  - C the UK
  - D Germany**
- 20** The largest producers of ethanol in the world are:
- A the USA and Brazil**
  - B Australia and South Africa
  - C Germany and France
  - D China and India
- 21** The world leader in geothermal electricity is:
- A New Zealand
  - B the USA**
  - C Iceland
  - D Chile
- 22** Approximately how many people in developing countries rely on fuelwood, charcoal and animal dung for cooking?
- A 1 billion
  - B 1.5 billion
  - C 2 billion
  - D 2.5 billion**
- 23** Which country overtook Japan as the world's second largest user of oil in 2004?
- A Russia
  - B China**
  - C India
  - D Brazil



- 24** Coal mined in China accounts for what percentage of the world total?
- A 22.5%
  - B 32.5%
  - C 42.5%**
  - D 52.5%
- 25** It has been estimated that China will take over from the USA as the world's largest consumer of oil in:
- A 2025**
  - B 2035
  - C 2045
  - D 2055
- 26** The only utility-scale tidal power system in the world is in:
- A France**
  - B Spain
  - C Canada
  - D the USA
- 27** The Three Gorges Dam is located along which river?
- A Pearl
  - B Yangtze**
  - C Yellow
  - D Songhua
- 28** The total cost of the Three Gorges Dam has been estimated at:
- A \$10 billion
  - B \$30 billion
  - C \$50 billion
  - D \$70 billion**



- 29** Of the five traditional sources of energy, which contributes the least to China's energy consumption?
- A** nuclear energy
  - B natural gas
  - C hydro-electricity
  - D oil
- 30** Which of the following countries is not a member of OPEC?
- A Saudi Arabia
  - B Nigeria
  - C Venezuela
  - D** Norway
- 31** Supply routes between energy producers and consumers are known as:
- A energy routes
  - B** energy pathways
  - C energy corridors
  - D lines of energy
- 32** Canada's large deposits of oil sands are in:
- A** Alberta
  - B British Columbia
  - C Ontario
  - D Quebec
- 33** The Falkland Islands are in the:
- A Pacific Ocean
  - B** South Atlantic Ocean
  - C Indian Ocean
  - D North Atlantic Ocean



- 34** The rate at which temperature rises as depth below the surface increases is the:
- A temperature gradient
  - B sub-surface gradient
  - C geothermal gradient**
  - D geological gradient
- 35** How many people will the Three Gorges Dam protect from flooding?
- A 1 million
  - B 5 million
  - C 10 million**
  - D 15 million