

# MarkingScheme

## Natural Resources Exam

### Question 1 (2017)

17.

Coal, natural gas, oil

3

### Question 2 (2015)

12.

Peat power station

3

### Question 3 (2015)

6.

16%

3

### Question 4 (2015)

The pictures above show different stages in providing a local water supply.  
 The pictures are not in the correct order.

(i) Describe the stages involved in providing a local water supply.

**Description Four statements at 2m each**

(ii) Explain how a water supply can become polluted.

**Statement 2m + Development 2m**

(12)

(i) 2, 2, 2, 2

(ii) 2+2 = 12m

**Exemplars** (i) *Water from our rivers and lakes are gathered. (2)*

*Water is piped to reservoir/ treatment works. (2)*

*At the treatment plant, the water is purified/cleaned/disinfected. (2)*

*Purified water is piped to homes and offices.(2)*

(ii) *Waste (2) from factories. (2)*

*Sewage (2) from farms. (2)*

Question 5 (2015)

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**B. Oil and Gas Exploration**

- (i) Name **ONE** area off the Irish coast where oil/natural gas has been found.  
**Location named 2m**
- (ii) Explain **ONE** positive effect and **ONE** negative effect of such a discovery for an area.  
**Positive effect stated 2m + development 1m**  
**Negative effect stated 2m + development 1m**
- (iii) State **ONE** reason why it is important to reduce the amount of fossil fuels being used.  
**Reason stated 2m**

(10)

(i) 2      (ii) 2+1 and 2+1      (iii) 2      = 10m

- Exemplars**    (i) *Kinsale / Corrib / Celtic sea / off Waterford / Mayo / Cork coast (2)*  
                  (ii) *Positive - It would supply jobs (2) when laying pipes.(1)*  
                              *Negative - Oil could leak out (2) and kill animals. (1)*  
                  (iii) *Cut down on the amount of dangerous gases going into atmosphere.(2)*

Question 6 (2017)

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8.	The burning of fossil fuels.	3
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## Question 7 (2014)

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- (i) Describe how different machines (technology) have increased the amount of peat that is extracted and removed from bogs.

Six elements of information @ 1m each.

$$1+1+1+1+1+1 = 6$$

Trains (1m) carry huge loads across the bog (1m). Tractors (1m) are faster than horse and cart (1m).

Note: Ditcher = drains; Grader = levels; Miller = scrapes/shreds; Ridger = ridges; Max 3 marks for machines/tools.

- (ii) Name and describe **ONE** use of cut-away bogs after the peat has been removed.

Use named @ 2m and described @ 2m.

$$2+2 = 4$$

They can be made into wetlands (2m) for wildlife (2m).

They can be used for farming (2m) if reclaimed (2m).

## Question 8 (2013)

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1

Renewable Energy

3

## Question 9 (2012)

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- (i) *Kinsale* (2m). [*Celtic Sea* (1)].  
(ii) *It saves importing* (2) and *provides power for the country* (2).  
(iii) *It is used for heating* (2) and *in cars* (2).

## Question 10 (2012)

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- (i) *Too many fish are caught* (1) and *they can't breed* (1);  
(ii) *Echo sounders help find the fish* (2); *Motorised winches help haul large catches*(2); *Super Trawlers can stay at sea for longer* (2); *Large nets can catch more fish* (2); *Chart plotters help boats to get to fishing grounds* (2).  
(iii) *Quotas or closed seasons or smaller nets or penalties or bans for* (2).

Question 11 (2011)

(i) Six elements of information @ 1m each

$$1 + 1 + 1 + 1 + 1 + 1 = 6$$

**Sample:** *Trains (1) carry huge loads across the bog (1). Peat is milled (1) and made into briquettes (1). Huge machines harvest the turf (1) faster than by hand (1).*

**Note:** Ditcher = drains; Grader = levels; Miller = scrapes/shreds; Harrow = turns; Ridger = ridges!; Harvester = harvests!; Tractor; Train.

(ii) Name and explain **ONE** possible use of bogs after the peat has been removed.

[10]

(ii) Use named = 2m, dev, + 2

$$2 + 2 = 4$$

**Sample:** *They can be preserved as wetlands (2) for wildlife (2). You could put up wind mills [2] as they are very flat [2]. You could plant trees [2 + 0].*

Question 12 (2010)

12. | Renewable

| 3

Question 13 (2009)

- (i) *A resource that can't be used again (2) such as oil (1).*  
(ii) *In cars (1) and central heating (1). Accept vegetable oil uses.*  
(iii) *It would bring jobs (1) laying pipes (1).  
It would bring money to the place (1+ 0).  
It would be dangerous (1) and could explode (1).  
It could ruin the environment (1) and spill (1).*

Question 14 (2008)

17

A and B

3

Question 15 (2006)

**Notes:** Sample: (i) *One lasts forever(2) and the other doesn't.(1).*  
Renewable = *fish(1)*; non-renewable = *coal(1)*.

(ii) *Blanket(1) and Raised(1).*  
Accept *mountain/lowland* for 1+1 also.

Question 16 (2006)

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**Notes:** (i) Sample: *draining(1) harvesting(1) transporting(1) selling(1)*  
Accept 'Draining' @ 1m if first or 'Selling' @ 1m if last.  
Accept any two or three in correct sequence @ 1+1 or 1+1+1.  
*draining(1) harvesting(1) selling(0) transporting(0)*  
*harvesting(1) selling (1)*

(ii) Train(3) to take turf to factory(2)  
Tractor(3) to pull disc-cutter(2)

(Machines might include train, carriages, tractor, disc-cutters, harrow, hoover, ridger, JCB, dozer, ditcher, grader etc.)

Question 17 (2006)

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**Notes:** Sample: (i) *Bigger boats can hold more fish(2)*  
*Radar shows where the fish are(2)*  
*Cranes help unload huge catches(2)*  
*Larger nets catch bigger amounts(2).*

(ii) *Irish Sea(2) OR Herring(2)*  
*Fish could die out(3) and people would lose their jobs(3).*

Question 18 (2005)

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12	Wind	3	
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Question 19 (2005)

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14	Overfishing	3	
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Question 20 (2005)

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*6A	Bringing water to dry land	3	credit one option only
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Question 21 (2005)

Examine the pictures above, which refer to fossil fuels used in the world today.

i. Explain briefly how fossil fuels are formed.

[3]

Three items of information @ 1 + 1 + 1      3mk.s

Sample: *Plants* (1) and *insects* (1) *rotted* (1) to form fossil fuels.

ii. List **THREE** ways in which fossil fuels are used today.

[3]

Three ways listed @ 1 + 1 + 1      3mk.s

Sample : *heat, fuel, cooking* = 1+1+1 BUT if graphics are simply LISTED credit ONE only. Allow the extra + 1 and + 1 if qualified e.g. *power in factory* +1.

iii. Explain why it is necessary to reduce the amount of fossil fuels which are burned.

[4]

Two reasons @ 2 + 2 Or  
One reason stated = 2mk.s , Development = 2mk.s  
2 + 2      10

Sample: They will *run out* (2); they *cause acid rain* (2); OR  
The *air pollution* (2) is causing *global warming* (2).

Notes: