

Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic: Energy (High Demand)

Name of the Student: _____

Max. Marks : 16 Marks

Time : 16 Minutes

Mark Schemes

Q1.

- (a) 90% of 2.1011
2.16.1011

2

- (b) (i) Can be located anywhere
Continuous output
Sustain coal industry
any 2 for 1 mark each

- (ii) Low running cost
No atmospheric pollution
Gives calm coastal waters
any 2 for 1 mark each

- (iii) High installation costs – built in sea
Coast environmental damage – wildlife disturbance
Time dependence – need dropping tide
any 2 for 1 mark each
(1 for a valid disadvantage, 1 for reason)

6

[8]

Q2.

coal has chemical energy
when burnt heat/energy produced longest
used to boil water/make steam sequence
used to turn turbine(s)
which now have ke
turbine(s) turn generator(s)
(where (ke) transferred electrical energy)
(or electrical energy produced)
any 5 for 1 mark each

[5]

Q3.

the higher the voltage the smaller the current
small current gives small energy loss

in the form of heat
(or efficiency greater, or energy/heat losses low – gets 1)
for 1 mark each

[3]