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الرابع
الابتدائي
٢٠٢٤

بنك أسئلة

التميز

أ/ محمود سعيد

ELMotamyez Questions Bank

science

March Revision

BY

MRS . Amira Ahmed



CARTOON SCIENCE

نسخة
مجانية

ملحق الإجابات
بالداخل



El.Motamyez.School

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March Questions Bank



CONCEPT
3.2

Question 01

choose the corret answer

- 1 All forms of fossil fuel are formed
 (a) above earth's surface (b) under earth's surface (c) above water surface (d) in air around us
 Behira 2023
- 2 All the following are forms of fossil fuel, except
 (a) water (b) coal (c) natural gas (d) oil
 Minia 2023
- 3 Among the following resources, we must conserve
 (a) Solar energy - coal (b) Solar energy - wind (c) Solar energy and oil (d) Oil and coal
 Alex 2023
- 4 All the following are renewable resources of energy, except
 (a) natural gas (b) water (c) the sun (d) wind
 Cairo 2023
- 5 From examples of renewable resources of energy is
 (a) oil (b) wind (c) coal (d) natural gas
 Qalyoubia 2023
- 6 The sun and wind are considered as resources of energy.
 (a) renewable (b) nonrenewable (c) destroyed (d) Harmful
 El-Behira: Kafr El-Dawar 2023
- 7 The resource that we consume in a rate faster than its formation in nature
 (a) Wind (b) Water (c) Solar energy (d) Fossil fuel
 School book
- 8 is a renewable source of energy.
 (a) Coal (b) Natural gases (c) Water (d) Fossil fuel
 School book



Question 02

put (true) or (false)

- 1 The movement of a generator in electric power station produces potential energy. ()
Giza 2023
- 2 Wind is a nonrenewable energy resource. ()
Suez: South Zone 2023
- 3 The use of fossil fuels to produce energy costs more money than using renewable resources ()
Giza 2023
- 4 Smog doesn't cause any damage in the human respiratory system ()
Alex 2023
- 5 Fossil fuels that human made from corn can be replaced as it is used ()
Cairo 2023
- 6 Generator in the electric power station changes potential energy into electrical energy ()
Giza 2023
- 7 Wind, oil and natural gas are natural resources used to generate clean energy ()
(Cairo: Heliopolis 2023)
- 8 Using solar energy is a way to conserve fossil fuels. ()
Dakahlia: 2023
- 9 Using fossil fuels keeps the environment from pollution. ()
Cairo Zeitoun 2023

Question 03

Complete the following sentences

- 1 Factories may cause pollution of and due to the chemicals they use
Cairo 2023
- 2 Global warming causes the raise of of earth and change its
Giza 2023
- 3 Coal and can be used in electric power stations to generate electricity
(Ministry models 2022)





- ④ Turbines in electric power stations are turned by steam and they produce energy to run the of the electric power stations
(Ministry models 2022)
- ⑤ The electric generator changesenergy into energy
(Ministry models 2022)

Question 04

write scientific term for each of the following

- ① It is the system that its tissue is damaged due to breathing big amount of cars smog ()
- ② The device in the electric power station, that converts kinetic energy into electrical energy. ()
- ③ It is type of rain that is formed when carbon dioxide gas combines with water in the air ()
- ④ The increase of Earth's temperature, as a result of burning fossil fuels ()
- ⑤ The energy resources that include wind energy and water energy ()
- ⑥ The device in the electric power station that produces kinetic energy to operate generator ()

Question 05

Give Reason for each of the following

- ① We must turn off lights that we are do not need
.....
- ② Gasoline is burned inside a car engine
.....
- ③ Wind considered as renewable resources of energy
.....
- ④ Coal considered as non-renewable resources of energy
.....



- 5 Smog of cars is very dangerous to human health.
.....
- 6 Fossil fuels cannot be replaced as quickly as they are used
.....
- 7 Generator are important in electric power stations
.....
- 8 The fuel is very important for different means of transportation.
.....
- 9 Using wood as a fuel has negative effects on the environment
.....
- 10 Farmers must decrease the use of pesticides
.....

Question 06

What happens if ?

- 1 The amount of fossil fuels if people don't conserve their use
.....
- 2 Acid rain falls on building.
.....
- 3 To the Earth's temperature if we use renewable resources of energy instead of fossil fuels
.....

Question 07

cross the odd word

- 1 Gasoline - Coal - Natural gas - Wind. Giza: 2023)
- 2 Wood-natural gas-gasoline-glass. (Dakahlia: 2023)





Question 01

choose the corret answer

CONCEPT
3.3

- 1 All of the following are examples of renewable energy resources, except

(a) fossil fuel (b) waterfalls (c) wind (d) sunlight

(Cairo 2023)
- 2 The solar energy is converted into energy in greenhouses.

(a) electrical (b) sound (c) thermal (d) Potential

(Cairo 2023)
- 3 The Sun provide us with,

(a) Sound – Heat (b) Light - Electricity (c) Sound - Light (d) Heat – Light

(Giza: 2023)
- 4 Which of the following energy forms isn't produced from the Sun?

(a) Thermal energy (b) Light energy (c) Kinetic energy (d) Radiation energy

School book
- 5 When the blades of wind turbines rotate, this causes their turbines to rotate that leads to generating energy.

(a) electrical (b) solar (c) chemical (d) Potential

(Alex. 2023)
- 6 Water flows through turbines in hydroelectric dams to generate energy

(a) electrical (b) potential (c) solar (d) light

(Giza: Agoza Zone2023)
- 7 In water turbines, the energy of water is changed into electrical energy

(a) chemical (b) kinetic (c) thermal (d) light

(Qalyoubia 2023)
- 8 Energy produced from flowing water of waterfalls, dams and turbines is called

(a) mechanical energy (b) hydroelectric energy (c) chemical energy (d) kinetic energy

School book
- 9 Which of the following is a preferred natural resource to generate clean energy?

(a) Ocean and river water (b) Trees and dry herbs (c) Water, coal, oil (d) Wind, oil, and natural gas.



10 Water turbines can generate more electricity by increasing the energy of water that is stored behind dams.

- a light b sound c thermal d potential

(Giza: Dokki Zone2023)

Question 02

put (true) or (false)

- 1 Machines makes our life easier. ()
(Qalyobia 2023)
- 2 We use solar energy to preserve food. ()
(Ministry models 2022)
- 3 Windmills always do their job all the time, because the wind never stop blowing ()
(Behira 2023)
- 4 The Sun is the main source of energy on Earth. ()
(Cairo 2023)
- 5 The Sun provides the Earth with light and heat. ()
(Behira 2023)
- 6 Wind is a renewable energy resource. ()
(Qalyobia 2023)
- 7 Using solar energy is a way to conserve fossil fuels. ()
(Cairo:2023)
- 8 Both modern wind turbines and old windmills are used to generate electricity ()
(Ministry models 2022)
- 9 In wind turbines, the kinetic energy is converted into chemical energy. ()
(Cairo 2023)
- 10 Electricity generated by wind turbines is transmitted through wind. ()
(Ministry models 2022)
- 11 Waterfalls are considered as nonrenewable energy resources ()
(Dakahlia 2023)
- 12 Electrical energy can be generated from both waterfalls and wind movement. ()
(Cairo 2023)



- 13 The flow of water can be controlled to generate electricity in dams. ()
(Cairo 2023)
- 14 Electricity can be generated from water. ()
(Cairo . Rod El Farag2023)
- 15 Water is one of the sources of electricity production in Egypt ()
Ministry models 2022
- 16 Dams are built on river to control the wind flow. ()
(Cairo:2023)
- 17 Rivers store kinetic energy. ()
(Ministry models 2022)
- 18 Dams are built on rivers in order to generate solar energy ()
(Minia 2023)
- 19 The watermills convert electrical energy into kinetic energy. ()
(Cairo . Rod El Farag2023)

Question 03

Complete the following sentences

- 1 When we expose our bodies to the Sun, we feel
(Cairo: El Waily Zone2023)
- 2 We can use solar energy in cooking by using curved mirror which collect and focusonto metal pots to heat them.
(Ministry models 2022)
- 3 Both wind and water movement produceenergy that is used to rotate turbines to generateenergy.
(Cairo 2023)
- 4 Wind blows due to the difference inbetween the cold air and the hot air.
(Cairo:2023)
- 5 By increasing the rotation of wind turbine blades, the wind turbine generates moreenergy.
(Alex. 2023)
- 6 When theenergy of wind increases, the speed of rotation of turbine blades will
(Giza: Dokki Zone2023)
- 7 Renewable energy resources include,.....and
(Behira 2023)



- 8 In water turbines, theenergy of water movement is converted into a type of electrical energy which is calledenergy. (Cairo 2023)
- 9 To avoid air pollution, we must useresources of energy such as water. (Ministry models 2022)
- 10 The Sun provides Earth with light and

(El-Behira: Kafr El-Dawar 2023)

Question 04

write scientific term for each of the following

- 1 A mill that is turned by water flow. ()
(Minia 2023)
- 2 A mill that is operated by wind movement. ()
(Menofia 2023)
- 3 The type of energy that is produced from wind turbines to operate different home devices. ()
(Ismailia 2023)
- 4 They help farmers in cold regions to plant crops which grow only in warm climate. ()
(Qalyoubia 2023)
- 5 The energy resources that include wind energy and water energy. ()
(Ministry models 2022)
- 6 A panel designed to absorb the energy of the sun to generate electricity. ()
(Qalyoubia 2023)
- 7 A turbine that uses the power of flowing air to generate electricity. ()
(Giza 2023)
- 8 A turbine in which the kinetic energy of moving water is used to generate hydroelectric energy. ()
(Cairo 2023)
- 9 A build on the river that controls the flow of water and increases the potential energy of water ()
(Ministry models 2022)
- 10 A type of electrical energy generated by water turbines in dams. ()
(Ministry models 2022)



Question 05

Give Reason for each of the following

- 1 We feel warm at night although the sun is not visible in the sky
.....
- 2 Hydroelectric dams are built on rivers
.....
- 3 Humans used windmills and watermills from hundreds of years ago
.....
- 4 Kinetic energy of wind affects the speed of wind turbine blades rotation
.....
- 5 Water turbines are placed in waterfalls areas
.....
- 6 Sometimes wind turbines are useless
.....

Question 06

What happens if ?

- 1 Sunlight falls on a greenhouse
.....
- 2 Water of sea evaporates then condenses in air
.....
- 3 Wind doesn't blow in an area that contains many modern wind turbines
.....
- 4 The kinetic energy of a wind that is applied on the wind turbine increases
.....
- 5 The presence of solar panels in some electrical devices
.....



- 6 The solar cell in a calculator exposed to sunlight
.....
- 7 There is difference in temperature of air around Earth
.....

Question 08

Answer the following questions

- **Choose from column (B) what suits it in column (A)**

1

(A)		(B)	
1	Solar panels	a	use in cooking food by converting solar energy into heat energy.
2	Curved mirrors	b	It was used to grind grain.
3	Old windmills	c	use to generate electricity from solar energy
		d	Convert kinetic energy into electrical energy.

2

(A)		(B)	
1	Turbines	a	Water is heated using the energy of the sun.
2	Greenhouse	b	Convert kinetic energy into electrical energy
3	Solar heater	c	It helps to grow crops that only grow in warm climates
		d	Non-renewable energy source

3

- **From the opposite figures:**

- 1 What is the name of this device?
- 2 The change of energy from energy to energy.



انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق

الصف
الرابع
الابتدائي
٢٠٢٤

بنك اسئلة

التميز

أ/ محمود سعيد



Model Answers

science

March Revision

BY

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يمكنكم الحصول على المذكرات والاختبارات من خلال مسح رمز ال QR Code او من خلال صفحة "التميز - أ/ محمود سعيد".
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March Questions Bank



CONCEPT
3.2

Question 01

choose the corret answer

- 1 All forms of fossil fuel are formed
 (a) above earth's surface (b) under earth's surface (c) above water surface (d) in air around us
 Behira 2023
- 2 All the following are forms of fossil fuel, except
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 Minia 2023
- 3 Among the following resources, we must conserve
 (a) Solar energy - coal (b) Solar energy - wind (c) Solar energy and oil (d) Oil and coal
 Alex 2023
- 4 All the following are renewable resources of energy, except
 (a) natural gas (b) water (c) the sun (d) wind
 Cairo 2023
- 5 From examples of renewable resources of energy is
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 School book
- 8 is a renewable source of energy.
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 School book



Question 02

put (true) or (false)

- 1 The movement of a generator in electric power station produces potential energy. ✗
Giza 2023
- 2 Wind is a nonrenewable energy resource. ✗
Suez: South Zone2023)
- 3 The use of fossil fuels to produce energy costs more money than using renewable resources ✗
Giza 2023
- 4 Smog doesn't cause any damage in the human respiratory system ✗
Alex 2023
- 5 Fossil fuels that human made from corn can be replaced as it is used ✗
Cairo 2023
- 6 Generator in the electric power station changes potential energy into electrical energy ✗
Giza 2023
- 7 Wind, oil and natural gas are natural resources used to generate clean energy ✗
(Cairo: Heliopolis2023)
- 8 Using solar energy is a way to conserve fossil fuels. ✓
Dakahlia: 2023)
- 9 Using fossil fuels keeps the environment from pollution. ✗
Cairo Zeitoun 2023

Question 03

Complete the following sentences

- 1 Factories may cause pollution of air, soil and water due to the chemicals they use Cairo 2023
- 2 Global warming causes the raise of temperature of earth and change its climate Giza 2023
- 3 Coal and oil can be used in electric power stations to generate electricity (Ministry models 2022





4 Turbines in electric power stations are turned by steam and they produce **kinetic** energy to run the **generator** of the electric power stations

(Ministry models 2022)

5 The electric generator changes **kinetic** energy into **electric** energy

(Ministry models 2022)

Question 04

write scientific term for each of the following

1 It is the system that its tissue is damaged due to breathing big amount of cars smog

respiratory system

2 The device in the electric power station, that converts kinetic energy into electrical energy.

generator

3 It is type of rain that is formed when carbon dioxide gas combines with water in the air

Acid rain

4 The increase of Earth's temperature, as a result of burning fossil fuels

Global warming

5 The energy resources that include wind energy and water energy

Renewable energy resources

6 The device in the electric power station that produces kinetic energy to operate generator

turbine

Question 05

Give Reason for each of the following

1 We must turn off lights that we are do not need

To conserve electricity

2 Gasoline is burned inside a car engine

when gasoline burned it produce thermal energy

thermal energy change into kinetic energy which cause car move

3 Wind considered as renewable resources of energy

Because it replaced shortly after using

4 Coal considered as non-renewable resources of energy

Because it used at a rate faster than they renewed



- 5 Smog of cars is very dangerous to human health.
Because it causes irritation of human's eyes and lungs
- 6 Fossil fuels cannot be replaced as quickly as they are used
Because it takes millions of years to form
- 7 Generator are important in electric power stations
Because it changes kinetic energy into electrical energy
- 8 The fuel is very important for different means of transportation.
Because fuel is burned inside the engines to produce thermal energy
Thermal energy change into kinetic energy which cause car move
- 9 Using wood as a fuel has negative effects on the environment
Because cutting tree cause deforestation
- 10 Farmers must decrease the use of pesticides
Because it causes pollution of water and soil

Question 06

What happens if ?

- 1 The amount of fossil fuels if people don't conserve their use
Fossil fuels will run out on the earth
- 2 Acid rain falls on building.
It dissolves the rocks building
- 3 To the Earth's temperature if we use renewable resources of energy instead of fossil fuels
The earth's temperature will not increase

Question 07

cross the odd word

- 1 Gasoline - Coal - Natural gas - Wind. Giza: 2023) Wind
- 2 Wood-natural gas-gasoline-glass. (Dakahlia: 2023) glass





Question 01

choose the corret answer

CONCEPT
3.3

- 1 All of the following are examples of renewable energy resources, except
 (a) fossil fuel (b) waterfalls (c) wind (d) sunlight
 (Cairo 2023)
- 2 The solar energy is converted into energy in greenhouses.
 (a) electrical (b) sound (c) thermal (d) Potential
 (Cairo 2023)
- 3 The Sun provide us with,
 (a) Sound – Heat (b) Light - Electricity (c) Sound - Light (d) Heat – Light
 (Giza: 2023)
- 4 Which of the following energy forms isn't produced from the Sun?
 (a) Thermal energy (b) Light energy (c) Kinetic energy (d) Radiation energy
 School book
- 5 When the blades of wind turbines rotate, this causes their turbines to rotate that leads to generating energy.
 (a) electrical (b) solar (c) chemical (d) Potential
 (Alex. 2023)
- 6 Water flows through turbines in hydroelectric dams to generate energy
 (a) electrical (b) potential (c) solar (d) light
 (Giza: Agoza Zone2023)
- 7 In water turbines, the energy of water is changed into electrical energy
 (a) chemical (b) kinetic (c) thermal (d) light
 (Qalyoubia 2023)
- 8 Energy produced from flowing water of waterfalls, dams and turbines is called
 (a) mechanical energy (b) hydroelectric energy (c) chemical energy (d) kinetic energy
 School book
- 9 Which of the following is a preferred natural resource to generate clean energy?
 (a) Ocean and river water (b) Trees and dry herbs (c) Water, coal, oil (d) Wind, oil, and natural gas.



10 Water turbines can generate more electricity by increasing the energy of water that is stored behind dams.

- (a) light (b) sound (c) thermal (d) **potential**

(Giza: Dokki Zone2023)

Question 02

put (true) or (false)

1 Machines makes our life easier.

(Qalyobia 2023)

2 We use solar energy to preserve food.

(Ministry models 2022)

3 Windmills always do their job all the time, because the wind never stop blowing

(Behira 2023)

4 The Sun is the main source of energy on Earth.

(Cairo 2023)

5 The Sun provides the Earth with light and heat.

(Behira 2023)

6 Wind is a renewable energy resource.

(Qalyobia 2023)

7 Using solar energy is a way to conserve fossil fuels.

(Cairo:2023)

8 Both modern wind turbines and old windmills are used to generate electricity

(Ministry models 2022)

9 In wind turbines, the kinetic energy is converted into chemical energy.

(Cairo 2023)

10 Electricity generated by wind turbines is transmitted through wind.

(Ministry models 2022)

11 Waterfalls are considered as nonrenewable energy resources

(Dakahlia 2023)

12 Electrical energy can be generated from both waterfalls and wind movement.

(Cairo 2023)



- 13 The flow of water can be controlled to generate electricity in dams. ✓
(Cairo 2023)
- 14 Electricity can be generated from water. ✓
(Cairo . Rod El Farag2023)
- 15 Water is one of the sources of electricity production in Egypt ✓
Ministry models 2022
- 16 Dams are built on river to control the wind flow. ✗
(Cairo:2023)
- 17 Rivers store kinetic energy. ✗
(Ministry models 2022)
- 18 Dams are built on rivers in order to generate solar energy ✗
(Minia 2023)
- 19 The watermills convert electrical energy into kinetic energy. ✗
(Cairo . Rod El Farag2023)

Question 03

Complete the following sentences

- 1 When we expose our bodies to the Sun, we feel warm (Cairo: El Waily Zone2023)
- 2 We can use solar energy in cooking by using curved mirror which collect and focus sun light onto metal pots to heat them. (Ministry models 2022)
- 3 Both wind and water movement produce kinetic energy that is used to rotate turbines to generate electrical energy. (Cairo 2023)
- 4 Wind blows due to the difference in temperature between the cold air and the hot air. (Cairo:2023)
- 5 By increasing the rotation of wind turbine blades, the wind turbine generates more electrical energy. (Alex. 2023)
- 6 When the kinetic energy of wind increases, the speed of rotation of turbine blades will increase (Giza: Dokki Zone2023)
- 7 Renewable energy resources include sun, wind and water (Behira 2023)





- 8 In water turbines, the **kinetic** energy of water movement is converted into a type of electrical energy which is called **hydroelectric** energy. (Cairo 2023)
- 9 To avoid air pollution, we must use **renewable** resources of energy such as water. (Ministry models 2022)
- 10 The Sun provides Earth with light and **heat** (El-Behira: Kafr El-Dawar 2023)

Question 04

write scientific term for each of the following

- 1 A mill that is turned by water flow. **watermill**
(Minia 2023)
- 2 A mill that is operated by wind movement. **windmill**
(Menofia 2023)
- 3 The type of energy that is produced from wind turbines to operate different home devices. **Electrical energy**
(Ismailia 2023)
- 4 They help farmers in cold regions to plant crops which grow only in warm climate. **greenhouses**
(Qalyoubia 2023)
- 5 The energy resources that include wind energy and water energy. **renewable energy resources**
(Ministry models 2022)
- 6 A panel designed to absorb the energy of the sun to generate electricity. **Solar panel**
(Qalyoubia 2023)
- 7 A turbine that uses the power of flowing air to generate electricity. **Wind turbine**
(Giza 2023)
- 8 A turbine in which the kinetic energy of moving water is used to generate hydroelectric energy. **Water turbine**
(Cairo 2023)
- 9 A build on the river that controls the flow of water and increases the potential energy of water **Dam**
(Ministry models 2022)
- 10 A type of electrical energy generated by water turbines in dams. **Hydroelectric energy**
(Ministry models 2022)



Question 05

Give Reason for each of the following

- 1 We feel warm at night although the sun is not visible in the sky
Because atmosphere, land and water absorb thermal energy from sun
- 2 Hydroelectric dams are built on rivers
To control water flow and increase the potential energy of water to generate electricity
- 3 Humans used windmills and watermills from hundreds of years ago
To grind grains to make flour
- 4 Kinetic energy of wind affects the speed of wind turbine blades rotation
when kinetic energy of wind increase
→ the blades rotate faster
→ wind turbine generates more electricity
- 5 Water turbines are placed in waterfalls areas
Because it changes kinetic energy of water into electrical energy
- 6 Sometimes wind turbines are useless
when wind doesn't blow
→ wind turbine blades don't move
→ don't generate electricity

Question 06

What happens if ?

- 1 Sunlight falls on a greenhouse
Radiant energy from sun changed into thermal energy
- 2 Water of sea evaporates then condenses in air
Formation of clouds and rain may fall
- 3 Wind doesn't blow in an area that contains many modern wind turbines
The blades of wind turbines don't move and it can't generate electricity
- 4 The kinetic energy of a wind that is applied on the wind turbine increases
the blades rotate faster → wind turbine generate more electricity



- 5 The presence of solar panels in some electrical devices
Solar energy changed into electrical energy
- 6 The solar cell in a calculator exposed to sunlight
Solar energy changed into electrical energy that charge calculator battery
- 7 There is difference in temperature of air around Earth
Wind blow

Question 08

Answer the following questions

- **Choose from column (B) what suits it in column (A)**

1

(A)		(B)	
1	Solar panels	a	use in cooking food by converting solar energy into heat energy.
2	Curved mirrors	b	It was used to grind grain.
3	Old windmills	c	use to generate electricity from solar energy
		d	Convert kinetic energy into electrical energy.

1-c

2-a

3-b

2

(A)		(B)	
1	Turbines	a	Water is heated using the energy of the sun.
2	Greenhouse	b	Convert kinetic energy into electrical energy
3	Solar heater	c	It helps to grow crops that only grow in warm climates
		d	Non-renewable energy source

1-b

2-c

3-a

3

- **From the opposite figures:**

- 1 What is the name of this device? **Solar panel**
- 2 The change of energy from **solar** energy to **electrical** energy



انتهت الأسئلة مع أطيّب الامنيات بالنجاح والتوفيق

