



مراجعات النخبة

بنك الأسئلة

Science Review for April 2025

science



Primary



*Second Term
2025*

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مراجعات النخبة
من
تراست أكاديمي اونلاين
2025

أكاديمية تراست
اونلاين
ابتدائي-إعدادي-ثانوي

لغات - تجريبي - عربي - أزهرى

ناشيونال - انترناشيونال

(مناهج امريكي - كامبردج - مناهج خليجية)



- متاح حجز مجموعات الشرح الشهرية
- مع فريق اساتذة اعداد مراجعات النخبة
- أنظمة مجموعات شهرية تناسب الجميع
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Question 1

choose the correct 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

2 Solar panels use solar energy to generate.....energy which is used in lighting houses

- (a) Sound (b) electrical
(c) Potential (d) kinetic



3 The wind movement has.....energy which moves the blades of windmills

- (a) Kinetic (b) Solar
(c) Thermal (d) potential

4 Both modern wind turbines and modern water turbines are similar in their.....

- (a) Shape (b) ability to generate electrical energy
(c) blades number (d) ability to generate potential energy

5 Using convergent.....in cooking food is one of the benefits of using the solar energy

- (a) Paper (b) Plastic
(c) Mirrors (d) wooden

6 Greenhouses allow farmers to plant crops that only grow in.....

- (a) polar climate (b) warm climate.
(c) absence of sunlight (d) absence of water



7 When land and water areas on Earth absorb the solar energy, the..... on Earth increases

- (a) Temperature (b) Rocks
(c) Water (d) ice

8 Solar water heater changes..... energy intoenergy

- (a) electrical- thermal (b) solar-sound
(c) electrical sound (d) solar thermal

9 All the following are from the uses of electricity generated by solar panelsexcept

- (a) operating windmills (b) operating irrigation equipment
(c) lighting streets (d) operating calculators



10 All the following are renewable energy resources, except.....

- (a) Waterfalls (b) Coal
(c) the Sun (d) wind

11 Kinetic energy ofmovement is used to rotate the blades of wind turbines

- (a) the moon (b) Stars
(c) Water (d) wind

12 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

13 The electrical energy is transmitted from wind turbines to houses through....

- (a) Water (b) Wind
(c) Coal (d) wires



14 When energy of wind increases, the blades of wind turbines spin more quickly

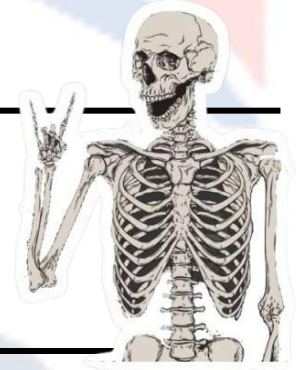
- (a) Kinetic (b) Potential
(c) Chemical (d) solar

15 Water flows through turbines in hydroelectric dams to generate..... energy

- (a) Electrical (b) Potential
(c) Solar (d) light

16 In water turbines, the..... energy of water is changed into electrical energy

- (a) Chemical (b) Kinetic
(c) Thermal (d) light



17 The reason of flowing of river water downhill is the..... force

- (a) Pushing (b) Friction
(c) Gravitational (d) electrical

18 Using of water to generate electricity depends on places

- (a) with strong winds (b) where dams are built on rivers.
(c) with weak winds (d) where boats sail in rivers

19 The water behind a dam storesenergy

- (a) Kinetic (b) Thermal
(c) Potential (d) electrical

20 The form of energy resulted from waterfalls is called energy

- (a) Thermal (b) Chemical
(c) Solar (d) hydroelectric



21 Which of the following is a renewable energy resource?

- (a) Running bicycle (b) Running car
(c) Running water (d) Running person.

22 River water evaporates by the help of heat produced from.....

- (a) Kettles (b) the Sun
(c) electric heaters (d) electric iron

23 In the water cycle, the water evaporates, then it condenses in form of and returns back through rain falling

- (a) Clouds (b) Sand
(c) Rocks (d) coal

Concept 4.1

24 Sand is formed due to breaking down of.....

- (a) Glass (b) Wood
(c) Rocks (d) plastic

25 The deep narrow valley with slopes at its sides and often with water stream flowing through it is known as a.....

- (a) Canyon (b) Mountain
(c) Hill (d) river



26 The formation of canyons takes.....

- (a) Potential (b) few hours
(c) few days (d) many years

27 The force of wind plays an important role in erosion, because it can transfer ...

- (a) sound energy (b) light energy
(c) small sized-particles of sand (d) very large pieces of rocks



أجمد كده
لا متعيطش!



28 Among the changes which are happened very fast, is

- (a) formation of deep canyons
- (c) disappearance of a sandcastle
- (b) breaking down of coastal rocks
- (d) breaking down of mountain rocks

29 The condition of atmosphere including temperature, wind and rains is known as.....

- (a) Weather
- (b) Weathering
- (c) Erosion
- (d) deposition

30 The dropping of sediments in a new place, is known as

- (a) Weathering
- (b) Deposition
- (c) Freezing
- (d) erosion

31 Limestone caves are formed due to the combination of

- (a) dissolved minerals
- (b) red-colored rusts
- (c) living organisms.
- (d) acid rains

32 Lichens produceon rocks that dissolve minerals found in these rocks

- (a) Oxygen
- (b) Acids
- (c) Water
- (d) rain

33 Rusting of an iron statue is an example of the action ofprocess

- (a) Deposition
- (b) Erosion
- (c) mechanical weathering
- (d) chemical weathering

34 Breaking of statues is an example of

- (a) Erosion
- (b) Weathering
- (c) Deposition
- (d) sedimentation



35 All the following are from causes of chemical weathering, except

- (a) Oxygen (b) Water
(c) acid rains (d) clouds

36 Water can causethat affect(s) the shape of the Earth

- (a) mechanical weathering only
(b) chemical weathering only
(c) both mechanical and chemical weathering
(d) neither mechanical nor chemical weathering

37 The breaking of rocks into smaller particles without changing their properties is called.....

- (a) mechanical weathering (b) chemical weathering
(c) Deposition (d) erosion

38 Which of the following does not cause mechanical weathering?

- (a) Roots of plants
(b) Acid rains
(c) Wind movement
(d) Water movement



39 The breakdown of rocks either mechanically or chemically is called

- (a) Rusting (b) Weathering
(c) Deposition (d) erosion

40 Moving of sediments from a place to another representsprocess

- (a) Weathering (b) Photosynthesis
(c) Erosion (d) deposition



41 Which of the following arrangements is correct about reshaping Earth's surface

.....

- (a) Erosion → Weathering → Deposition
- (b) Erosion → Deposition → Weathering
- (c) Deposition → Erosion → Weathering
- (d) Weathering → Erosion → Deposition

42 A gentle wind may carry sand for a distance, but the hurricanes can carry sand for a distance

- (a) long-shorter
- (b) long-longer
- (c) short-shorter
- (d) short-longer

43 Gentle wind can carry..... for a short distance

- (a) a large rock
- (b) sand grains
- (c) a large body of water
- (d) a big mass of mud



44 Pulling sand away from beaches by sea waves, is considered as an example of...

- (a) mechanical weathering
- (b) chemical weathering
- (c) Erosion
- (d) deposition

45 Pulling down broken weathered rocks at mountainsides occurs by the effect of...

- (a) gentle wind
- (b) freezing of water
- (c) Earth's gravity
- (d) chemical weathering

46 When a river that carries sediments meet a sea,..... is formed

- (a) a large mountain
- (b) a triangle-shaped delta
- (c) small sand dune
- (d) a large sand dune



Question 2

Put (✓) or (x) answers

Concept 3.3

1)	Wind is non-renewable resources of energy	()
2)	In greenhouse the radiant energy from sun convert to electric energy	()
3)	The output of solar panels system is electric energy	()
4)	The concave mirror is used in collecting and focusing sunlight	()
5)	Kinetic energy can be used in electric generation	()
6)	Solar energy is non-renewable resources of energy	()
7)	The input of the solar panels system is electric energy	()
8)	Sun light known as radiant energy or radiation.	()
9)	Wind turbines can be used in electric generation	()
10)	Electricity generated can be stored in batteries	()
11)	Dams are used to generate electricity	()
12)	Wind is a non-renewable resources of energy	()
13)	Water and the wind are a clean resources of energy	()
14)	Water may be renewable or non-renewable resource of energy	()
15)	The gravitational potential energy of rivers water change to heat energy	()
16)	Water is non-renewable resource of energy	()



17)	Water from the rivers above the dam stores kinetic energy	()
18)	The electricity can be send along wires to cities	()
19)	We can generate electricity by wind and water	()
20)	The electricity that generated by water is called hydroelectricity	()
21)	Wind and water are considered as nonrenewable energy resources	()
22)	Water is used to operate wind turbines to generate electricity	()
23)	Hundreds of years ago, people used windmills to crush grain to make flour	()
24)	Solar panels are used to generate sound energy in some types of street lamps	()
25)	When the kinetic energy of wind that is applied to the wind turbines increases, they produce more electricity	()
26)	Both solar panels and natural gas are renewable energy resources	()
27)	Waterfalls are considered as nonrenewable energy resources	()
28)	The flow of water can be controlled to generate electricity in dams	()
29)	Running water in rivers has kinetic energy	()
30)	The energy produced by wind turbines is known as hydroelectric energy	()
31)	The evaporated water from rivers can return back to rivers through the water cycle	()



		()
32]	Weathering is a process by which rocks or soil moving	()
33]	Canyon formed at a short period of time	()
34]	The process of deposition occurs when sediment down	()
35]	Wind causes beach erosion	()
36]	Water and wind are factors shape the surface of Earth	()
37]	Wabi Nakhr in the country of Oman	()
38]	Canyon is formed by wind	()
39]	Erosion and weathering change the shape of Earth's surface	()
40]	The process by which rocks are broken into smaller pieces is known as weathering	()
41]	Both of sandcastles and canyons can be formed in few hours	()
42]	There are some similarities between sandcastles and coastal rocks	()
43]	Canyons have sloping at sides like that of coastal rocks	()
44]	Water may cause mechanical and chemical weathering	()
45]	Chemical weathering could occur due to the acid that is produced from lichens or present in some rains.	()
46]	Limestone caves are formed due to friction between sand and rocks	()

Concept 4.1



47)	Crushing a piece of biscuit by hands can represent a type of chemical weathering	()
48)	The shape and structure of an iron statue are changed due to rusting process	()
49)	Limestone caves formed within few hours	()
50)	You can see the reshaping of Earth's surface during its occurrence	()
51)	If there is no erosion process, there is no deposition process in another place	()
52)	Delta may be formed by the effect of weathering process only	()
53)	Erosion and deposition are two linked processes	()
54)	Both of small sand dunes and coastal rocks need few days to be formed.	()

Question 3

Correct the underlined words

Concept 3.3

1)	Solar panels use <u>sound</u> energy to generate electricity	()
2)	Water turbines generate electricity by using the energy of <u>wind movement</u>	()
3)	<u>Manual</u> mixer depends on electricity to do its function	()
4)	The <u>high</u> cost of producing energy in windmills is one of its advantages	()





5)	In the absence of the light of <u>moon</u> , living organisms cannot survive	()
6)	Thermal energy and <u>sound</u> energy are produced from the Sun and reach the Earth	()
7)	Small solar panels are used to supply one light bulb with <u>sound</u> energy.	()
8)	<u>Potential</u> energy of the wind is converted into electrical energy by wind turbines	()
9)	The difference in temperatures between cold and hot air causes air to <u>stop</u>	()
10)	<u>Water</u> turbines rotate when their blades rotate as wind blows.	()
11)	When air blows into the wind turbine strongly, the blades spin <u>slower</u>	()
12)	The <u>thermal</u> energy generated by water turbines in dams is known as hydroelectricity	()
13)	During the flowing of rivers water downhill, the <u>chemical</u> potential energy of water is converted into kinetic energy	()
14)	Dams are built on rivers in order to generate <u>solar</u> energy	()
15)	The electrical energy is generated by <u>wind</u> turbines in dams	()
		Concept 4.1
16)	The deep valley that is carved by flowing water, is known as <u>coastal rock</u>	()





17)	Disappearance of a sandcastle in few minutes is an example of <u>slow</u> changes.	()
18)	Canyons are formed due to <u>fast</u> changes	()
19)	The movement of sediments from one place to another, is know as <u>deposition</u>	()
20)	<u>Weather</u> is the breaking down of rocks on Earth's surface into tiny pieces	()
21)	Plant <u>leaves</u> grow inside the cracks of rocks which become wider	()
22)	Weathering process followed by <u>deposition</u> process in reshaping Earth's surface.	()
23)	Sand grains can be carried for a short distance by <u>strong</u> wind	()
24)	When sediments are deposited at the end of a river, a <u>sand dune</u> is formed	()
25)	Hills of sand which are found in deserts and seashores are known as <u>canyons</u>	()
26)	<u>Erosion</u> process means that wind or water break down rocks	()
27)	Erosion process is usually followed by <u>weathering</u> process	()



Question 4

Write the scientific term each of the following

Concept 3.3

1)	The clean energy resource that can be used in electric generation	()
2)	A type of mirror that can be used to get heat which can be used in cooking	()
3)	The main energy resource that plants and animals need it to survive	()
4)	Energy stored uphill water rivers	()
5)	Energy that make turbines and generators in dams works	()
6)	Energy that produced due to the operations of turbines and generators in dams.	()
7)	A mill that is turned by water flow	()
8)	A mill that is operated by wind movement	()
9)	The type of energy that is produced from wind turbines to operate different home devices	()
10)	An equipment that is used to convert the kinetic energy of wind into electrical energy	()
11)	A type of mirrors that is used to collect and focus sunlight onto metal pots to heat them and cook the food inside	()



12)	They help farmers in cold regions to plant crops which grow only in warm climate	()
13)	An equipment consists of panels made of black pipes that is used to heat water at houses	()
14)	A type of electrical energy generated by water turbines in dams	()
15)	A type of dams that is used to generate electricity using the flow of water	()
16)	A turbine in which the kinetic energy of moving water is used to generate hydroelectric energy	()
17)	A process in which water changes into water vapor	()
18)	The process in which the water of rivers evaporates, then condenses forming clouds and return back to rivers through rainfalls	()
		()
19)	The process by which sediment down	()
20)	Moving fragments of rocks or soil around	()
21)	The disappearance of a sandcastle as a result of its hitting with the sea waves	()
22)	Breaking apart rocks	()
23)	They are deep valleys carved by flowing water.	()



24)	Rocks that are found near seashores and broken by the effect of wind and water over long periods of time	()
25)	A process in which rocks are broken down into smaller particles	()
26)	A process in which small broken rocks move from a place to another by the help of wind or water.	()
27)	A process in which the sediments are dropped in a new location by the action of wind, water and gravity	()
28)	A part of plant grows inside cracks of rocks causing their weathering	()
29)	The condition of atmosphere at a specific time and place	()
30)	It is a type of weathering through which acids of lichens dissolve minerals of rocks	()
31)	It is a type of caves that is formed when dissolved minerals of rocks combine again in new shapes	()
32)	It is a process through which water forming ice in cracks of rocks	()
33)	A gas in air combines with iron of some rocks and causes its weakness	()
34)	A fan-shaped (triangular) mass of sediments that is formed where a river enters a larger body of water like seas	()
35)	A hill of sand created by the wind.	()





36)	They are small solid materials such as sand, soil and small rocks that carried by water to another place	()
37)	The force that pulls down broken weathered rocks at mountainsides	()

Question 5

Complete the following sentences

Concept 3.3

1)	Some mills used (.....) and other used (.....)	
2)	From the renewable energy resources (.....)	
3)	The output of the solar panels system is (.....) energy	
4)	Energy received from the sun is called (.....)	
5)	Solar panels are used to (.....)	
6)	The water can be heated by passing through (.....) colour tubes	
7)	Sun is a (.....) energy resource.	
8)	(.....) is used to crush grain to make flour	
9)	All plants and animals need (.....) to survive	
10)	(Concave (.....) mirrors is used in collecting and focusing sunlight	
11)	In greenhouses radiant energy from the sun convert to (.....) energy	





- | | |
|-----|---|
| 12) | Wind is(.....) energy resources. |
| 13) | The input of the solar panels system is (.....) energy |
| 14) | Water can be used to (.....) |
| 15) | Rivers run (.....) |
| 16) | Electricity that formed by water is called (.....) |
| 17) | The water from the rivers above the dam stores (.....) |
| 18) | Water is (.....) energy resources |
| 19) | Wind can be used to (.....) |
| 20) | The gravitational potential energy of rivers water convert to (.....) energy |
| 21) | The (.....) in the dam generate electricity |
| 22) | Water from (.....) is used in electricity generation |
| 23) | Wind is a (.....) energy resource |
| 24) | We can use (.....) in electricity generation |
| 25) | From the renewable resources of energy (.....) |
| 26) | The (.....) generate electricity in the dam |
| 27) | The water flow has kinetic energy, which moves theof water turbines to transform this energy intoenergy |



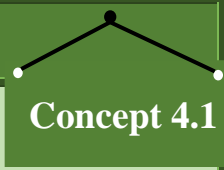


28)	Bothandare used to crush grain hundreds of years ago
29)	When we expose our bodies to the Sun, we feel.....
30)	We can use solar energy in cooking by usingwhich collect and focus onto metal pots to heat them
31)	Greenhouses convert the radiant energy of the sun rays intoenergy that allows farmers to plant crops which grow inclimates
32)	In some villages, solar panels are used to generate energy that is used to operate equipments
33)	Wind is formed due to the effect ofenergy coming from the in the form of rays
34)	Wind blows due to the difference in between the cold air and the hot air.
35)	When the.....energy of wind increases, the speed of rotation of turbine blades will
36)	When rivers flow downhill,..... energy of water is converted into energy that rotates water turbine
37)	The type of electrical energy which is produced by water turbines is called





38)	Renewable energy resources include...The sun,...and
39)	Clouds are formed due to the.....then of water of rivers and seas.
40)	In water turbines, the.....energy of water movement is converted into a type of electrical energy which is calledenergy
41)	Wadi Nakhr located in the country of (.....)
42)	(.....) and (.....) may sculpt landscapes
43)	(.....) are factors shape the surface of Earth
44)	Canyon is formed by (.....)
45)	The process by which rocks are broken into smaller pieces is known as (.....)
46)	The process by which rocks or soil moving is known as (.....)
47)	Sediment down is a process of (.....)
48)	Canyon is formed after (.....)
49)	Some changes to Earth's surface happen take (.....) time and some take (.....) time
50)	Sandcastle wrecked during (.....)



Concept 4.1





51]	Coastal rocks are formed by a (.....) period of time
52]	(.....) ...moving soil from one place to another
53]	(.....) causing beach erosion
54]	The type of weathering in which the rocks are broken down due to plant roots is known as weathering
55]	The type of weathering in which the structure of rocks changes due to chemical reactions is known as weathering
56]	Some tiny plant-like organisms produce that can dissolve minerals of rocks causing their breaking down
57]	Lichens produce acids on rocks that dissolves their ...
58]	Mechanical weathering takes place when occurs between sand carried by wind and rocks
59]	Flowing water which carries small gravel and sand may break down large... and cause ... weathering
60]	The cracks caused by freezing of water and melting of ice represent weathering
61]	Sand grains fall on the ground when the carrying it stops.
62]	Strong wind and hurricanes carry for a long distance
63]	Gentle winds can form small like that present at sea beaches





64]

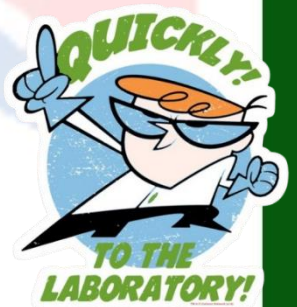
Putting some biscuits in a cup of water that contains antacid is like the weathering of rocks

Question 6

Give reason

Concept 3.3

- 1] Sun is very important to plants and animals.
-
- 2] The solar energy is clear energy resource
-
- 3] The concave mirror can be used in cooking
•
- 4] Turbines and generators in dams have important role
-
- 5] The renewable energy resources are very important
-
- 6] Dams have important role in electricity generation
-
- 7] Humans used windmills and watermills from hundreds of years ago
•
- 8] Sometimes the Sun is not visible in the sky but you can feel its warmth
•
- 9] Farmers use greenhouses to plant crops which grow only in warm climate
•
- 10] Some electrical devices have solar panels which are composed of many solar cells
•





11) Kinetic energy of wind affects the speed of wind turbine blades rotation.

•

12) Sometimes the wind turbines are useless

•

13) Hydroelectric dams are built on rivers

•

14) Water turbines are placed in waterfalls areas

•

15) Some dams contain water turbines

•

1) The waves causes the beach erosion

-

...

2) Weathering and erosion change the shape of Earth's surface

-

3) Weather factors change Earth's surface

-

4) Trees and other plants are growing on both sides of small canyons.

•

5) It might be useful to recognize signs of weathering, erosion and deposition

•

6) The sides of canyon at the beginning of its formation are gently sloped

•

7) Valleys have different shapes

•

•

8) Canyon may be formed as a result of river streaming

•

Concept 4.1



9) Plants of wetland areas help in formation of deltas

•

10) A sand dune may be formed in front a large rock in desert

•

Question 7

What happens ?

Concept 3.3

1) The radiant energy enters the greenhouse

-

2) The concave mirror used in cooking

-

3) Rivers run downhill

-

4) Turbines and generators are stopped in dam

-

5) Stop building of dams

-

6) Water passing through blacks tubes.

-

7) Wind doesn't blow in an area that contains many modern wind turbines

•

8) Sunlight falls on solar panels

•

9) Sunlight falls on a greenhouse

•

10) The solar cells in a calculator are exposed to sunlight

•

11) The kinetic energy of a wind that is applied on the wind turbine increases

•



12) There is difference in temperatures of air around Earth

-

13) Water turbines are placed in a dam

-

14) Potential energy of water increases behind a dam that has water turbines

-

15) Water of seas and rivers evaporates, then condenses in the atmospheric air

-

16) Rocks are broken into smaller pieces

-

Concept 4.1

17) Waves crash the beach

-

18) Sediment down

-

19) To a flat land, if a water stream flows over it

-

20) To a house that is built close to a river, if the path of the river is changed toward this house

-

21) To a small canyon if it rained a lot and water ran through it for a longer time

-

22) If a river erodes the sediments of a mountain over millions of years

-

23) If a river stream enters a sea

-

24) If the speed of the river water that is full of sediments decreases

-

25) If wind that is carrying sand particles hits a big rock.

-





26] To the sand in a desert when wind blows by a great force

•

Question 8

Vairous questions

Concept 3.3

1] Determine the important of greenhouse

-

2] Determine the output and input in greenhouse

-

-

3] Determine the output and input in solar panels system

-

-

4] Determine the input and output energies in turbines and generators inside the dams

-

-

5] Determine the input and output energies in windmills

-

-

6] Determine the output and input energies in watermills

-

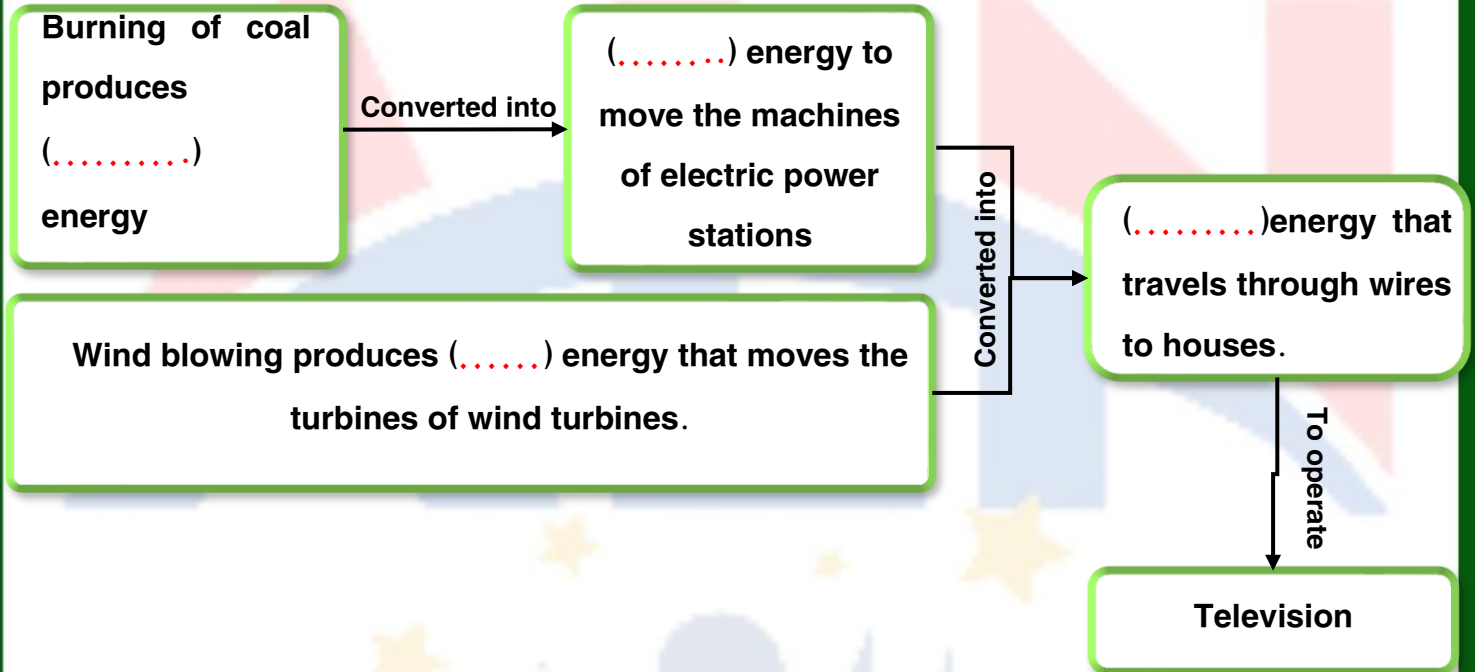
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7) Complete the following energy chain by using the energies below

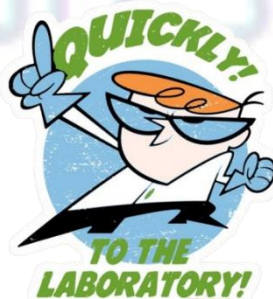
- (You may use each word more than once).

(Thermal - Electrical - Kinetic)



8) Choose from column (B) what suits it in column (A):

(A) Form of fuel	(B) We can get it from
1. Solar water heater	a. the energy that is used by wind turbines
2. Light energy and thermal energy	b. use the energy of the Sun to heat water in homes
3. Kinetic energy	c. are the two main forms of energy produced from the Sun
(1)	d. is the form of energy produced from solar panels
(2)	(3)



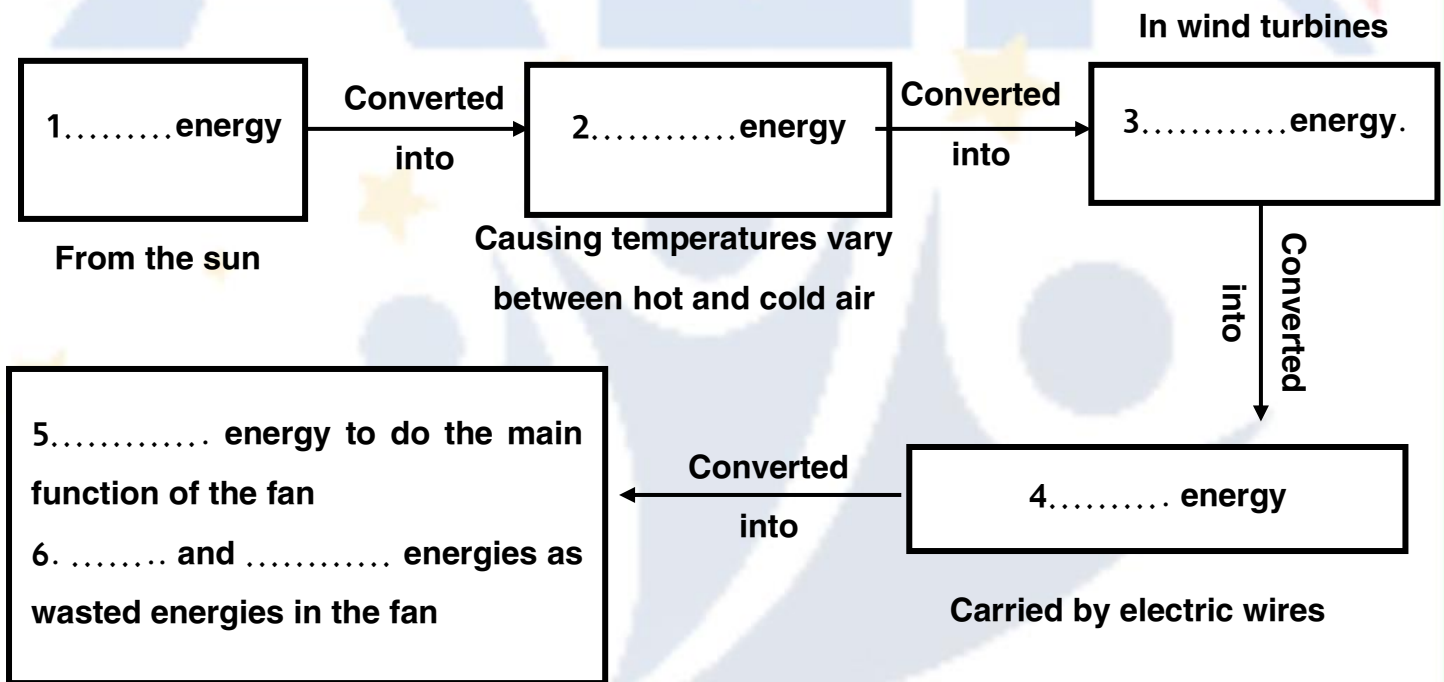
9) Complete the following sentences using the words below :

(increases - solar cells - wind - wires)

- 1- Solar panels are composed of many small.....
- 2- The efficiency of wind turbines increases, when the kinetic energy of wind.....
- 3- The electrical energy produced by wind turbine, is transmitted through big.....to different houses
- 4- difference in temperatures of air causes the blowing of... ..

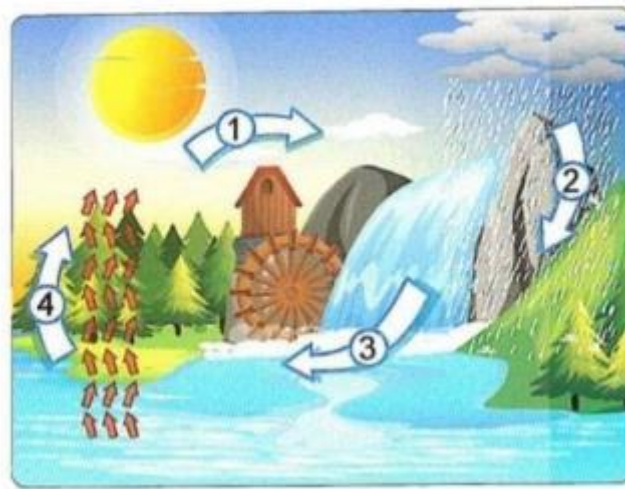
10) Complete the following energy chain of a fan using the words between brackets: (You may use the same word more than once).

(Thermal - Radiant - Electrical - Kinetic - Sound)





11) Look at the following figure that represents the water cycle, then complete the sentences below:



1. The arrow number (.....) represents the evaporation of river's water.
2. The arrow number (.....) represents the condensation of water vapor to form clouds
3. The arrow number (.....) represents the falling of rain that make water return back to the river
4. The arrow number (.....) represents the water movement in waterfall that makes the watermill rotate

12) Determine the two factors that effect the Earth's surface

-

13) Determine the difference between weathering and erosion.

-

.....



14] Complete the following sentences by using the words between brackets
(slow - erosion - fast-rocks - wind - water)

1. The shape of coastal rocks is affected by the forces of... (.....) .and wind
2. The origin of sand is the breaking down of some types of.....
3. Air moving from an area to another and has a role in breaking down of rocks into smaller particles is known as
4. The process of transporting small rocks from one place to another by the help of water or wind is known as.....
5. Disappearance of a sandcastle is an example of.....changes, while formation of a canyon is an example of.....changes

15] Complete the following sentences by using the words between brackets:
(gravity - sand dunes - delta - deposition – weathering)

- 1- Wind in the desert may form.....
- 2- When a river meets a sea.....will be formed
- 3- Erosion by.....pulling small rocks down at mountainsides
- 4- The reshaping of the Earth's surface starts by.....process followed by erosion process and thenprocess

16])Choose from column (A) the appropriate one from column (B):

(A)	(B)
1. Sand dune	a. a deep valley formed in rock as a result of the flow of water.
2. The canyon	b. is a hill of sand formed by the wind
3. Weathering	c. the transfer of rock or soil fragments.
4. Erosion	d. fragmentation and cracking of rocks
(1)	(2) (3) (4)





مراجعات النخبة

بنك الأسئلة

Science

Answer form

Trust Academy
Online



Primary

4th

Second Term
2025

Prepared by:
Teacher. Salma Gharib

Question 1

choose the correct 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

2 Solar panels use solar energy to generate.....energy which is used in lighting houses

- (a) Sound (b) electrical
(c) Potential (d) kinetic



3 The wind movement has.....energy which moves the blades of windmills

- (a) Kinetic (b) Solar
(c) Thermal (d) potential

4 Both modern wind turbines and modern water turbines are similar in their.....

- (a) Shape (b) ability to generate electrical energy.
(c) blades number (d) ability to generate potential energy

5 Using convergent.....in cooking food is one of the benefits of using the solar energy

- (a) Paper (b) Plastic
(c) Mirrors (d) wooden

6 Greenhouses allow farmers to plant crops that only grow in.....

- (a) polar climate (b) warm climate.
(c) absence of sunlight (d) absence of water



7 When land and water areas on Earth absorb the solar energy, the..... on Earth increases

- (a) Temperature (b) Rocks
(c) Water (d) ice

8 Solar water heater changes..... energy intoenergy

- (a) electrical- thermal (b) solar-sound
(c) electrical sound (d) solar thermal

9 All the following are from the uses of electricity generated by solar panelsexcept

- (a) operating windmills (b) operating irrigation equipment
(c) lighting streets (d) operating calculators



10 All the following are renewable energy resources, except.....

- (a) Waterfalls (b) Coal
(c) the Sun (d) wind

11 Kinetic energy ofmovement is used to rotate the blades of wind turbines

- (a) the moon (b) Stars
(c) Water (d) wind

12 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

13 The electrical energy is transmitted from wind turbines to houses through....

- (a) Water (b) Wind
(c) Coal (d) wires



14 When energy of wind increases, the blades of wind turbines spin more quickly

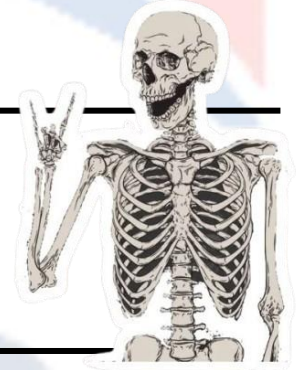
- (a) Kinetic (b) Potential
(c) Chemical (d) solar

15 Water flows through turbines in hydroelectric dams to generate..... energy

- (a) Electrical (b) Potential
(c) Solar (d) light

16 In water turbines, the..... energy of water is changed into electrical energy

- (a) Chemical (b) Kinetic
(c) Thermal (d) light



17 The reason of flowing of river water downhill is the..... force

- (a) Pushing (b) Friction
(c) Gravitational (d) electrical

18 Using of water to generate electricity depends on places

- (a) with strong winds (b) where dams are built on rivers.
(c) with weak winds (d) where boats sail in rivers

19 The water behind a dam storesenergy

- (a) Kinetic (b) Thermal
(c) Potential (d) electrical

20 The form of energy resulted from waterfalls is called energy

- (a) Thermal (b) Chemical
(c) Solar (d) hydroelectric



21 Which of the following is a renewable energy resource?

- (a) Running bicycle (b) Running car
(c) Running water (d) Running person.

22 River water evaporates by the help of heat produced from.....

- (a) Kettles (b) the Sun
(c) electric heaters (d) electric iron

23 In the water cycle, the water evaporates, then it condenses in form of and returns back through rain falling

- (a) Clouds (b) Sand
(c) Rocks (d) coal

Concept 4.1

24 Sand is formed due to breaking down of.....

- (a) Glass (b) Wood
(c) Rocks (d) plastic

25 The deep narrow valley with slopes at its sides and often with water stream flowing through it is known as a.....

- (a) Canyon (b) Mountain
(c) Hill (d) river



26 The formation of canyons takes.....

- (a) Potential (b) few hours
(c) few days (d) many years

27 The force of wind plays an important role in erosion, because it can transfer ...

- (a) sound energy (b) light energy
(c) small sized-particles of sand (d) very large pieces of rocks



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لا تعيظش!



28 Among the changes which are happened very fast, is

- (a) formation of deep canyons
- (c) disappearance of a sandcastle
- (b) breaking down of coastal rocks
- (d) breaking down of mountain rocks

29 The condition of atmosphere including temperature, wind and rains is known as.....

- (a) Weather
- (b) Weathering
- (c) Erosion
- (d) deposition

30 The dropping of sediments in a new place, is known as

- (a) Weathering
- (b) Deposition
- (c) Freezing
- (d) erosion

31 Limestone caves are formed due to the combination of

- (a) dissolved minerals
- (b) red-colored rusts
- (c) living organisms.
- (d) acid rains

32 Lichens produceon rocks that dissolve minerals found in these rocks

- (a) Oxygen
- (b) Acids
- (c) Water
- (d) rain

33 Rusting of an iron statue is an example of the action ofprocess

- (a) Deposition
- (b) Erosion
- (c) mechanical weathering
- (d) chemical weathering

34 Breaking of statues is an example of

- (a) Erosion
- (b) Weathering
- (c) Deposition
- (d) sedimentation



35 All the following are from causes of chemical weathering, except

- (a) Oxygen (b) Water
(c) acid rains (d) clouds

36 Water can causethat affect(s) the shape of the Earth

- (a) mechanical weathering only
(b) chemical weathering only
(c) both mechanical and chemical weathering
(d) neither mechanical nor chemical weathering

37 The breaking of rocks into smaller particles without changing their properties is called.....

- (a) mechanical weathering (b) chemical weathering
(c) Deposition (d) erosion

38 Which of the following does not cause mechanical weathering?

- (a) Roots of plants
(b) Acid rains
(c) Wind movement
(d) Water movement



39 The breakdown of rocks either mechanically or chemically is called

- (a) Rusting (b) Weathering
(c) Deposition (d) erosion

40 Moving of sediments from a place to another representsprocess

- (a) Weathering (b) Photosynthesis
(c) Erosion (d) deposition



41 Which of the following arrangements is correct about reshaping Earth's surface

.....

- (a) Erosion → Weathering → Deposition
- (b) Erosion → Deposition → Weathering
- (c) Deposition → Erosion → Weathering
- (d) Weathering → Erosion → Deposition

42 A gentle wind may carry sand for a distance, but the hurricanes can carry sand for a distance

- (a) long-shorter
- (b) long-longer
- (c) short-shorter
- (d) short-longer

43 Gentle wind can carry..... for a short distance

- (a) a large rock
- (b) sand grains
- (c) a large body of water
- (d) a big mass of mud



44 Pulling sand away from beaches by sea waves, is considered as an example of...

- (a) mechanical weathering
- (b) chemical weathering
- (c) Erosion
- (d) deposition

45 Pulling down broken weathered rocks at mountainsides occurs by the effect of...

- (a) gentle wind
- (b) freezing of water
- (c) Earth's gravity
- (d) chemical weathering

46 When a river that carries sediments meet a sea,..... is formed

- (a) a large mountain
- (b) a triangle-shaped delta
- (c) small sand dune
- (d) a large sand dune



Question 2

Put (✓) or (x) answers

Concept 3.3

1)	Wind is non-renewable resources of energy	x
2)	In greenhouse the radiant energy from sun convert to electric energy	x
3)	The output of solar panels system is electric energy	✓
4)	The concave mirror is used in collecting and focusing sunlight	✓
5)	Kinetic energy can be used in electric generation	✓
6)	Solar energy is non-renewable resources of energy	x
7)	The input of the solar panels system is electric energy	x
8)	Sun light known as radiant energy or radiation.	✓
9)	Wind turbines can be used in electric generation	✓
10)	Electricity generated can be stored in batteries	✓
11)	Dams are used to generate electricity	✓
12)	Wind is a non-renewable resources of energy	x
13)	Water and the wind are a clean resources of energy	✓
14)	Water may be renewable or non-renewable resource of energy	x
15)	The gravitational potential energy of rivers water change to heat energy	x
16)	Water is non-renewable resource of energy	x



17)	Water from the rivers above the dam stores kinetic energy	x
18)	The electricity can be send along wires to cities	✓
19)	We can generate electricity by wind and water	✓
20)	The electricity that generated by water is called hydroelectricity	✓
21)	Wind and water are considered as nonrenewable energy resources	x
22)	Water is used to operate wind turbines to generate electricity	x
23)	Hundreds of years ago, people used windmills to crush grain to make flour	✓
24)	Solar panels are used to generate sound energy in some types of street lamps	x
25)	When the kinetic energy of wind that is applied to the wind turbines increases, they produce more electricity	✓
26)	Both solar panels and natural gas are renewable energy resources	x
27)	Waterfalls are considered as nonrenewable energy resources	x
28)	The flow of water can be controlled to generate electricity in dams	✓
29)	Running water in rivers has kinetic energy	✓
30)	The energy produced by wind turbines is known as hydroelectric energy	x
31)	The evaporated water from rivers can return back to rivers through the water cycle	✓





		Concept 4.1
32)	Weathering is a process by which rocks or soil moving	x
33)	Canyon formed at a short period of time	x
34)	The process of deposition occurs when sediment down	✓
35)	Wind causes beach erosion	x
36)	Water and wind are factors shape the surface of Earth	✓
37)	Wabi Nakhr in the country of Oman	✓
38)	Canyon is formed by wind	x
39)	Erosion and weathering change the shape of Earth's surface	✓
40)	The process by which rocks are broken into smaller pieces is known as weathering	✓
41)	Both of sandcastles and canyons can be formed in few hours	x
42)	There are some similarities between sandcastles and coastal rocks	✓
43)	Canyons have sloping at sides like that of coastal rocks	✓
44)	Water may cause mechanical and chemical weathering	✓
45)	Chemical weathering could occur due to the acid that is produced from lichens or present in some rains.	✓
46)	Limestone caves are formed due to friction between sand and rocks	x





47)	Crushing a piece of biscuit by hands can represent a type of chemical weathering	x
48)	The shape and structure of an iron statue are changed due to rusting process	✓
49)	Limestone caves formed within few hours	x
50)	You can see the reshaping of Earth's surface during its occurrence	x
51)	If there is no erosion process, there is no deposition process in another place	✓
52)	Delta may be formed by the effect of weathering process only	x
53)	Erosion and deposition are two linked processes	✓
54)	Both of small sand dunes and coastal rocks need few days to be formed.	x

Question 3

Correct the underlined words

Concept 3.3

1)	Solar panels use <u>sound</u> energy to generate electricity	solar
2)	Water turbines generate electricity by using the energy of <u>wind movement</u>	water flow
3)	<u>Manual</u> mixer depends on electricity to do its function	Electric
4)	The <u>high</u> cost of producing energy in windmills is one of its advantages	low





5)	In the absence of the light of <u>moon</u> , living organisms cannot survive	the Sun
6)	Thermal energy and <u>sound</u> energy are produced from the Sun and reach the Earth	light
7)	Small solar panels are used to supply one light bulb with <u>sound</u> energy.	electrical
8)	<u>Potential</u> energy of the wind is converted into electrical energy by wind turbines	kinetic
9)	The difference in temperatures between cold and hot air causes air to <u>stop</u>	move
10)	<u>Water</u> turbines rotate when their blades rotate as wind blows.	Wind
11)	When air blows into the wind turbine strongly, the blades spin <u>slower</u>	faster
12)	The <u>thermal</u> energy generated by water turbines in dams is known as hydroelectricity	electrical
13)	During the flowing of rivers water downhill, the <u>chemical</u> potential energy of water is converted into kinetic energy	gravitational
14)	Dams are built on rivers in order to generate <u>solar</u> energy	electrical
15)	The electrical energy is generated by <u>wind</u> turbines in dams	water
16)	The deep valley that is carved by flowing water, is known as <u>coastal rock</u>	Canyon

Concept 4.1

Canyon





17)	Disappearance of a sandcastle in few minutes is an example of <u>slow</u> changes.	Fast
18)	Canyons are formed due to <u>fast</u> changes	Slow
19)	The movement of sediments from one place to another, is know as <u>deposition</u>	Erosion
20)	<u>Weather</u> is the breaking down of rocks on Earth's surface into tiny pieces	Weathering
21)	Plant <u>leaves</u> grow inside the cracks of rocks which become wider	Roots
22)	Weathering process followed by <u>deposition</u> process in reshaping Earth's surface.	Erosion
23)	Sand grains can be carried for a short distance by <u>strong</u> wind	gentle
24)	When sediments are deposited at the end of a river, a <u>sand dune</u> is formed	Delta
25)	Hills of sand which are found in deserts and seashores are known as <u>canyons</u>	Sand dunes
26)	<u>Erosion</u> process means that wind or water break down rocks	Weathering
27)	Erosion process is usually followed by <u>weathering</u> process	Deposition



Question 4

Write the scientific term each of the following

Concept 3.3

1)	The clean energy resource that can be used in electric generation	water
2)	A type of mirror that can be used to get heat which can be used in cooking	Concave mirrors
3)	The main energy resource that plants and animals need it to survive	sun
4)	Energy stored uphill water rivers	Gravitational potential energy
5)	Energy that make turbines and generators in dams works	Kinetic energy
6)	Energy that produced due to the operations of turbines and generators in dams.	Hydroelectric energy
7)	A mill that is turned by water flow	Watermill
8)	A mill that is operated by wind movement	Windmill
9)	The type of energy that is produced from wind turbines to operate different home devices	Electrical energy
10)	An equipment that is used to convert the kinetic energy of wind into electrical energy	Wind turbine
11)	A type of mirrors that is used to collect and focus sunlight onto metal pots to heat them and cook the food inside	Convergent (concave) mirrors





12)	They help farmers in cold regions to plant crops which grow only in warm climate	Greenhouses
13)	An equipment consists of panels made of black pipes that is used to heat water at houses	Solar water heater
14)	A type of electrical energy generated by water turbines in dams	Hydroelectric energy
15)	A type of dams that is used to generate electricity using the flow of water	Hydroelectric dam
16)	A turbine in which the kinetic energy of moving water is used to generate hydroelectric energy	Water turbine
17)	A process in which water changes into water vapor	Evaporation process
18)	The process in which the water of rivers evaporates, then condenses forming clouds and return back to rivers through rainfalls	Water cycle
19)	The process by which sediment down	Deposition
20)	Moving fragments of rocks or soil around	Erosion
21)	The disappearance of a sandcastle as a result of its hitting with the sea waves	Erosion of the sandcastle
22)	Breaking apart rocks	Weathering
23)	They are deep valleys carved by flowing water.	Canyons



24)	Rocks that are found near seashores and broken by the effect of wind and water over long periods of time	Coastal rocks
25)	A process in which rocks are broken down into smaller particles	Weathering
26)	A process in which small broken rocks move from a place to another by the help of wind or water.	Erosion
27)	A process in which the sediments are dropped in a new location by the action of wind, water and gravity	Deposition
28)	A part of plant grows inside cracks of rocks causing their weathering	Plant roots
29)	The condition of atmosphere at a specific time and place	Weather
30)	It is a type of weathering through which acids of lichens dissolve minerals of rocks	Chemical weathering
31)	It is a type of caves that is formed when dissolved minerals of rocks combine again in new shapes	Limestone caves
32)	It is a process through which water forming ice in cracks of rocks	Freezing process
33)	A gas in air combines with iron of some rocks and causes its weakness	Oxygen gas
34)	A fan-shaped (triangular) mass of sediments that is formed where a river enters a larger body of water like seas	A delta
35)	A hill of sand created by the wind.	A sand dune



36)	They are small solid materials such as sand, soil and small rocks that carried by water to another place	Sediments
37)	The force that pulls down broken weathered rocks at mountainsides	Gravity

Question 5

Complete the following sentences

Concept 3.3

1)	Some mills used (<u>wind</u>) and other used (<u>water</u>)
2)	From the renewable energy resources (<u>water turbines , wind turbines</u>)
3)	The output of the solar panels system is (<u>Electrical</u>) energy
4)	Energy received from the sun is called (<u>solar energy</u>)
5)	Solar panels are used to (<u>Generate electricity</u>)
6)	The water can be heated by passing through (<u>Black</u>) colour tubes
7)	Sun is a (<u>Renewable</u>) energy resource.
8)	(<u>wind mill or water mill</u>) is used to crush grain to make flour
9)	All plants and animals need (<u>sun</u>) to survive
10)	(Concave (<u>curved</u>) mirrors is used in collecting and focusing sunlight
11)	In greenhouses radiant energy from the sun convert to (<u>thermal</u>) energy
12)	Wind is(<u>Renewable</u>) energy resources.
13)	The input of the solar panels system is (<u>Radiant</u>) energy



- 14) Water can be used to (Generate electricity)
- 15) Rivers run (Water turbines)
- 16) Electricity that formed by water is called (Hydroelectric energy)
- 17) The water from the rivers above the dam stores (Gravitational potential)
- 18) Water is (Renewable) energy resources
- 19) Wind can be used to (Generate electricity)
- 20) The gravitational potential energy of rivers water convert to (kinetic) energy
- 21) The (Water turbines) in the dam generate electricity
- 22) Water from (Rivers) is used in electricity generation
- 23) Wind is a (Renewable) energy resource
- 24) We can use (water , wind) in electricity generation
- 25) From the renewable resources of energy (water – wind)
- 26) The (Generators – water turbines) generate electricity in the dam
- 27) The water flow has kinetic energy, which moves the blades of water turbines to transform this energy into electrical energy
- 28) Both wind mills and ... water mills are used to crush grain hundreds of years ago
- 29) When we expose our bodies to the Sun, we feel..... warm.....





- 30) We can use solar energy in cooking by using concave mirrors....which collect and focus sunlight ... onto metal pots to heat them
- 31) Greenhouses convert the radiant energy of the sun rays into thermalenergy that allows farmers to plant crops which grow in warm.....climates
- 32) In some villages, solar panels are used to generate electrical energy that is used to operate irrigation equipments
- 33) Wind is formed due to the effect of radiant ...energy coming from the sun.... in the form of rays
- 34) Wind blows due to the difference in temperatures..... between the cold air and the hot air.
- 35) When the..... kineticenergy of wind increases, the speed of rotation of turbine blades will increase.....
- 36) When rivers flow downhill,..... gravitational potential... energy of water is converted into ... kinetic energy that rotates water turbine
- 37) The type of electrical energy which is produced by water turbines is called ... hydroelectric energy.....
- 38) Renewable energy resources include...The sun,... windand ... water... ..
- 39) Clouds are formed due to the..... evaporation ...then ... Condensation of water of rivers and seas.





40) In water turbines, the..... kineticenergy of water movement is converted into a type of electrical energy which is called hydroelectric.....energy

41) Wadi Nakhr located in the country of (oman)

Concept 4.1

42) (water) and (wind) may sculpt landscapes

43) (water) and (wind) are factors shape the surface of Earth

44) Canyon is formed by (flowing water)

45) The process by which rocks are broken into smaller pieces is known as (Weathering)

46) The process by which rocks or soil moving is known as (Erosion)

47) Sediment down is a process of (Deposition)

48) Canyon is formed after (long period of time)

49) Some changes to Earth's surface happen take (long) time and some take (Short) time

50) Sandcastle wrecked during (short period of time)

51) Coastal rocks are formed by a (long) period of time

52) (Erosion) ...moving soil from one place to another

53) (Water waves) causing beach erosion





54)	The type of weathering in which the rocks are broken down due to plant roots is known as <u>Mechanical</u> weathering
55)	The type of weathering in which the structure of rocks changes due to chemical reactions is known as <u>Chemical</u> weathering
56)	Some tiny plant-like organisms produce <u>acids</u> ... that can dissolve minerals of rocks causing their breaking down
57)	Lichens produce acids on rocks that dissolves their ... <u>minerals</u>
58)	Mechanical weathering takes place when <u>friction</u> occurs between sand carried by wind and rocks
59)	Flowing water which carries small gravel and sand may break down large... <u>rocks</u> .. and cause ... <u>Mechanical</u> weathering
60)	The cracks caused by freezing of water and melting of ice represent <u>Mechanical</u> weathering
61)	Sand grains fall on the ground when the <u>Wind</u> carrying it stops.
62)	Strong wind and hurricanes carry <u>Sand grains</u> for a long distance
63)	Gentle winds can form small <u>Sand dunes</u> like that present at sea beaches
64)	Putting some biscuits in a cup of water that contains antacid is like the <u>Chemical</u> weathering of rocks



Question 6

Give reason

Concept 3.3

1) Sun is very important to plants and animals.

- Because it is the main energy resource that animals and plants need to survive

2) The solar energy is clear energy resource

- Because it is a renewable energy resources and it doesn't pollute the environment

3) The concave mirror can be used in cooking

- Because These curved mirrors collect and focus sunlight (sun rays) to heat metal pots and cook food inside it



4) Turbines and generators in dams have important role

- Because they convert kinetic energy of water into electrical energy

5) The renewable energy resources are very important

- Because we can use them in generating electricity And Because they don't pollute the environment (clean energy resource)

6) Dams have important role in electricity generation

- Because water of dams stores gravitational potential energy that changed into kinetic energy that operate water turbines and generators which generate electricity

7) Humans used windmills and watermills from hundreds of years ago

- Because they helped them to crush grain to make flour

8) Sometimes the Sun is not visible in the sky but you can feel its warmth

- Because the atmosphere, land and water of Earth absorb the thermal energy of the Sun which causes increasing in the Earth's temperature

9) Farmers use greenhouses to plant crops which grow only in warm climate

- Because greenhouses absorb radiant energy coming from the Sun and convert it into thermal energy that warms the inside of greenhouses



- 10] Some electrical devices have solar panels which are composed of many solar cells
- To absorb the solar energy coming from the Sun and convert it into electrical energy
- 11] Kinetic energy of wind affects the speed of wind turbine blades rotation.
- Because by increasing the kinetic energy of wind, the blades rotate faster and wind turbine generates more electricity Not all the energy that enters the energy chain completely reaches the device.
- 12] Sometimes the wind turbines are useless
- Because sometimes the wind doesn't blow, so their blades don't move, so wind turbines don't generate electricity
- 13] Hydroelectric dams are built on rivers
- To control the water flow and increase the potential energy of water to generate electricity
- 14] Water turbines are placed in waterfalls areas
- Because water turbines convert kinetic energy of flowing water into electrical energy.
- 15] Some dams contain water turbines
- Because kinetic energy of moving water in dams is used to rotate water turbines to generate hydroelectric energy

Concept 4.1

- 11] The waves causes the beach erosion
- Because sea waves move the sand away from the beaches Causing beach erosion
- 12] Weathering and erosion change the shape of Earth's surface
- Because Weathering break rocks down into smaller particles then erosion move these sediments to other place .



13) Weather factors change Earth's surface

- Because weather Factors which are rain , wind and temperature cause weathering, erosion and deposition which cause the change of earth surface

14) Trees and other plants are growing on both sides of small canyons.

- Due to flow of water stream which is needed by plants to grow.

15) It might be useful to recognize signs of weathering, erosion and deposition

- Because it may help in building houses in safe places

16) The sides of canyon at the beginning of its formation are gently sloped

- Due to the help of water in eroding the sides down

17) Valleys have different shapes

- Because the shape of a valley depends on several factors including:
- - The types of rocks exist in the landscape.
- - The speed, age and size of river that form the valley

18) Canyon may be formed as a result of river streaming

- Because the fast flow of water can erode a lot of sediment and carry them away, that lead to a formation of canyons.

19) Plants of wetland areas help in formation of deltas

- Because they help in increasing the rate of deposition process

20) A sand dune may be formed in front a large rock in desert

- Because the large rock can block the path of sand which is carried by wind

Question 7

What happens ?

Concept 3.3

1) The radiant energy enters the greenhouse

- Greenhouses allow the entry of solar energy (especially radiant energy), then this radiant energy is converted into thermal energy that warms the inside of the greenhouses



2) The concave mirror used in cooking

- It collects and focus sunlight (sun rays) to heat metal pots and cook food inside it

3) Rivers run downhill

- The gravitational potential energy stored in water converted into kinetic energy that changed into electrical energy

4) Turbines and generators are stopped in dam

- They cannot convert kinetic energy of water into electrical energy so (They cannot generate electricity)

5) Stop building of dams

- We won't be able to generate more hydroelectric energy (electricity)

6) Water passing through blacks tubes.

- It will heat the water then the heated water will be stored in a water tank to be used later

7) Wind doesn't blow in an area that contains many modern wind turbines

- The blades of wind turbines don't move and also don't generate electricity

8) Sunlight falls on solar panels

- The solar energy of the Sun is converted into electrical energy

9) Sunlight falls on a greenhouse

- The greenhouse absorbs the radiant energy from the Sun and convert it into thermal energy

10) The solar cells in a calculator are exposed to sunlight

- The solar cells absorb solar energy coming from the Sun and convert it into electrical energy that is used to charge the battery of calculator

11) The kinetic energy of a wind that is applied on the wind turbine increases

- The blades of wind turbine rotate faster and generate more electricity

12) There is difference in temperatures of air around Earth

- It causes the movement of air and wind blowing.



13) Water turbines are placed in a dam

- Potential energy of water behind dams is converted into kinetic energy which causes water turbines rotate and generate electricity

14) Potential energy of water increases behind a dam that has water turbines

- It converts into more kinetic energy which causes water turbines rotate faster and generate more electricity

15) Water of seas and rivers evaporates, then condenses in the atmospheric air

- Clouds are formed and rain may fall.

16) Rocks are broken into smaller pieces

- Weathering occurs and then They will transfer to another place by erosion process

Concept 4.1

17) Waves crash the beach

- It will cause erosion process by moving sand away from the beach

18) Sediment down

- It leads to deposit of sediments process which means deposition occurs.

19) To a flat land, if a water stream flows over it

- A small canyon may be formed.

20) To a house that is built close to a river, if the path of the river is changed toward this house

- It causes weathering and erosion of the house.

21) To a small canyon if it rained a lot and water ran through it for a longer time

- The small canyon could get deeper

22) If a river erodes the sediments of a mountain over millions of years

- A canyon may be formed

23) If a river stream enters a sea

- A delta may be formed.

24) If the speed of the river water that is full of sediments decreases

- River drops the sediments which it is carrying forming deltas



25) If wind that is carrying sand particles hits a big rock.

- Sand dunes may be formed

26) To the sand in a desert when wind blows by a great force

- The sand travels for a long distance

Question 8

Vairous questions

Concept 3.3

1) Determine the important of greenhouse

- Greenhouses are used to help farmers to plant the crops that only grow in warm climate

2) Determine the output and input in greenhouse

- Input --> solar energy (radiant energy)
- Output --> Thermal energy

3) Determine the output and input in solar panels system

- Input --> solar energy (radiant energy)
- Output --> Thermal energy

4) Determine the input and output energies in turbines and generators inside the dams

- Input --> kinetic energy
- Output --> electrical energy

5) Determine the input and output energies in windmills

- Input --> kinetic energy
- Output --> Mechanical energy (that used to grind grains)

6) Determine the output and input energies in watermills

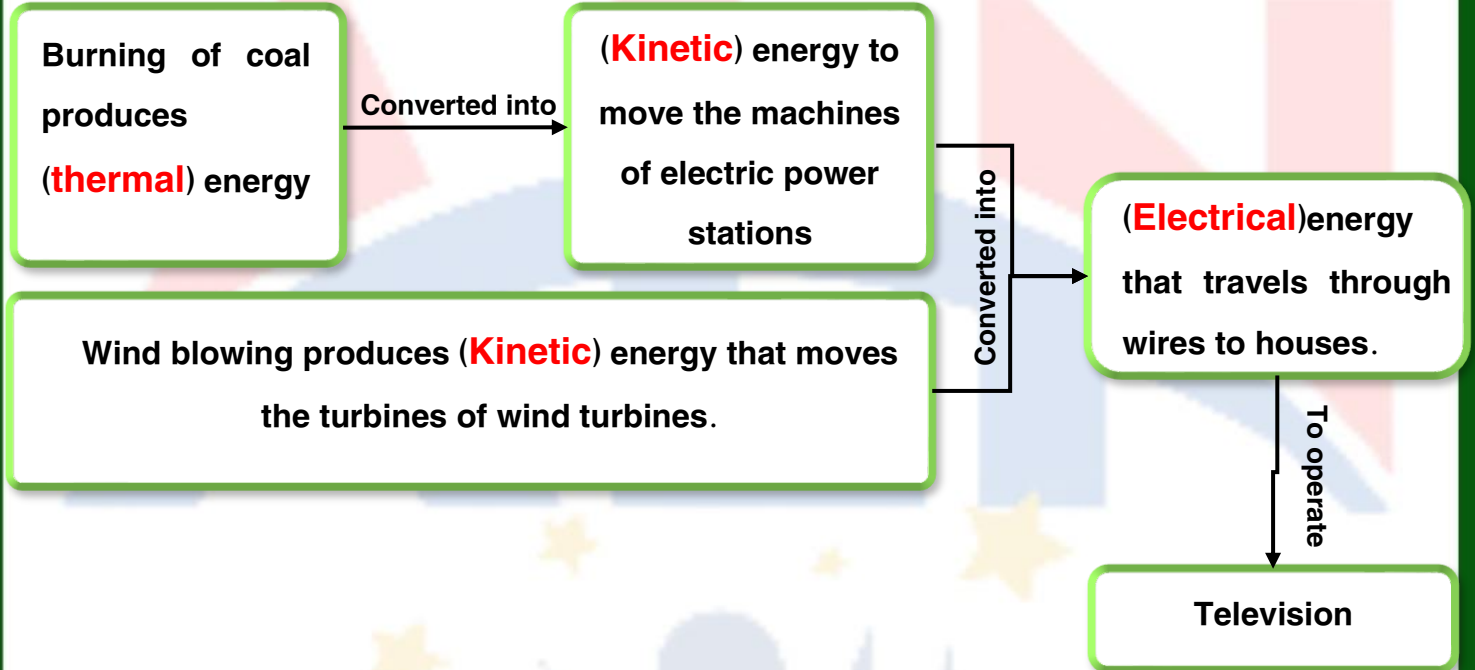
- Input --> kinetic energy (that comes of water)
- Output--> Mechanical energy (that used to grind grains)



7] Complete the following energy chain by using the energies below

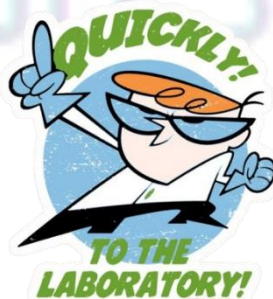
- (You may use each word more than once).

(Thermal - Electrical - Kinetic)



8] Choose from column (B) what suits it in column (A):

(A) Form of fuel	(B) We can get it from
4. Solar water heater	e. the energy that is used by wind turbines
5. Light energy and thermal energy	f. use the energy of the Sun to heat water in homes
6. Kinetic energy	g. are the two main forms of energy produced from the Sun
(4) <u>.....(b)....</u>	h. is the form of energy produced from solar panels
(5) <u>...(c).....</u>	(6) <u>.....(a).....</u>



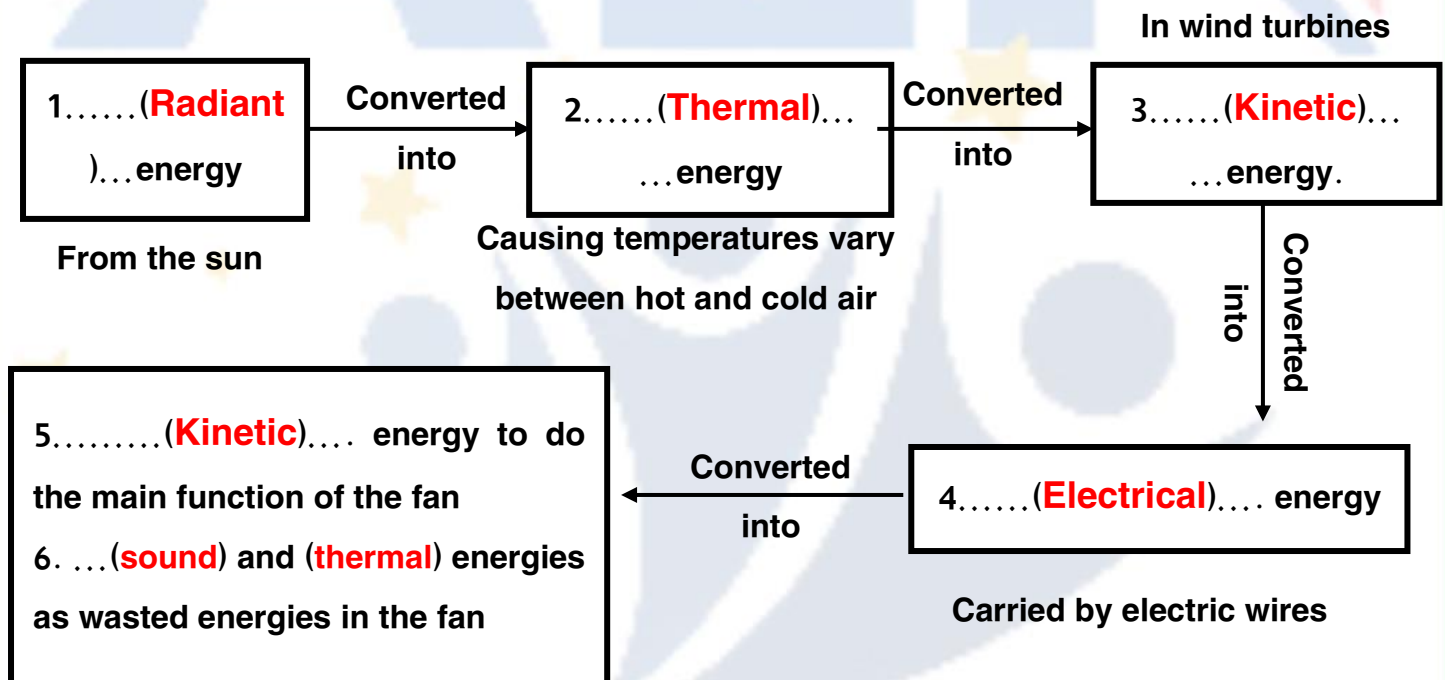
9) Complete the following sentences using the words below :

(increases - solar cells - wind - wires)

- 1- Solar panels are composed of many small.....(**solar cells**).....
- 2- The efficiency of wind turbines increases, when the kinetic energy of wind.....(**Increases**) ...
- 3- The electrical energy produced by wind turbine, is transmitted through big.....(**Wires**)to different houses
- 4- difference in temperatures of air causes the blowing of... (**Wind**).....

10) Complete the following energy chain of a fan using the words between brackets: (You may use the same word more than once).

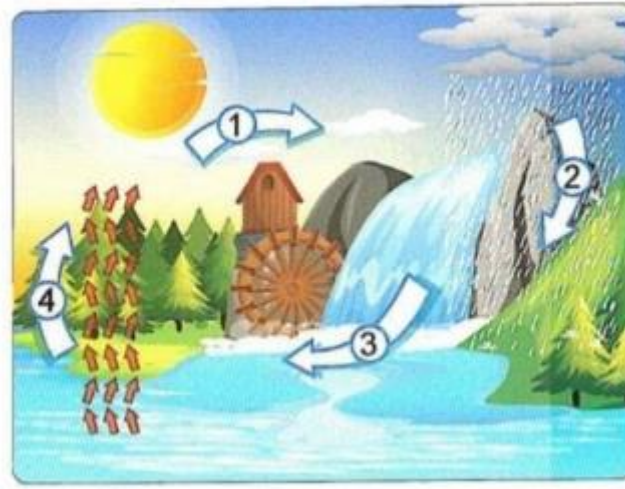
(Thermal - Radiant - Electrical - Kinetic - Sound)



Teacher: Can everyone turn on their cameras please?
Me at the exact moment:



11) Look at the following figure that represents the water cycle, then complete the sentences below:



1. The arrow number (4) represents the evaporation of river's water.
2. The arrow number (1) represents the condensation of water vapor to form clouds
3. The arrow number (2) represents the falling of rain that make water return back to the river
4. The arrow number (3) represents the water movement in waterfall that makes the watermill rotate

12) Determine the two factors that effect the Earth's surface

- Water - wind

13) Determine the difference between weathering and erosion.

- Weathering: is the breaking down of rocks into smaller particles
- Erosion: is the process in which the small particles of rocks are moved to other place



14) Complete the following sentences by using the words between brackets

(slow - erosion - fast-rocks - wind - water)

1. The shape of coastal rocks is affected by the forces of... (water) .and wind



2. The origin of sand is the breaking down of some types of.....(rocks) ..
3. Air moving from an area to another and has a role in breaking down of rocks into smaller particles is known as(wind).....
4. The process of transporting small rocks from one place to another by the help of water or wind is known as..... erosion).....
5. Disappearance of a sandcastle is an example of... (fast)...changes, while formation of a canyon is an example of..... (slow).....changes

15] Complete the following sentences by using the words between brackets:

(gravity - sand dunes - delta - deposition – weathering)

- 1- Wind in the desert may form..... sand dunes
- 2- When a river meets a sea..... deltawill be formed
- 3- Erosion by..... gravitypulling small rocks down at mountainsides
- 4- The reshaping of the Earth's surface starts by..... weatheringprocess followed by erosion process and then depositionprocess

16])Choose from column (A) the appropriate one from column (B):

(A)	(B)
1. Sand dune	e. a deep valley formed in rock as a result of the flow of water.
2. The canyon	f. is a hill of sand formed by the wind
3. Weathering	g. the transfer of rock or soil fragments.
4. Erosion	h. fragmentation and cracking of rocks
(5) <u>.....(b)</u>	(6) <u>....(a)</u>
	(7) <u>...(d)</u>
	(8) <u>....(c)</u>



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