

الصف
الخامس
الابتدائي
٢٠٢٤

بنك اسئلة

التميز

أ/ محمود سعيد

ELMotamyez Questions Bank

Science

March Revision

By

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 Yalla Science

نسخة
مجانية

ملحق الإجابات
بالداخل



El.Motamyez.School

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



Question 01

Choose the correct answer

- 1 The area of land where all the water flows in one direction to a common location as ocean is called

(a) tributary (b) estuary (c) wetland (d) watershed

(Qalyoubia 2023)
- 2 Waste water engineers work in Egypt in.....

(a) Ras Mohammed protector (b) Lake Bardwell (c) Bahr Al Baqar plant (d) electrical power plant

(school book)
- 3 Prevent developing of Ras Mohamed Protectorate is considered as an example of

(a) preservation (b) pollution (c) sustainability (d) consumption

(Cairo 2023)
- 4 All the following materials can be used to filter wastewater in simple water filter, except

(a) cotton (b) wood (c) charcoal (d) sand

(Cairo 2023)
- 5 process is used to get filtered water from polluted water.

(a) Recycling (b) Sustainability (c) Preservation (d) Conservation

(El-Gharbia 2023)
- 6 Water cycle is considered as an example of

(a) recycling water (b) preservation of water (c) overusing water (d) conservation of water

(Cairo 2023)
- 7 Water filters are used to remove materials from polluted water.

(a) harmful (b) solar system (c) day and night (d) electricity

(Cairo 2023)
- 8 of resources, requires managing its usage methods.

(a) Depletion (b) Sustainability (c) Renewability (d) Scarcity



- 9 Pollution is one of the problems to achieve (affect) of resources.
 a preservation b sustainability c restoration d renewability
 (school book)
- 10 is an evidence of limiting the possibility of using and accessing resources.
 a Lake Qaroun b Natural protectorates c Well water d Biome systems
 (school book)
- 11 A protectorate is an example of
 a sustainability of natural resources b depletion of natural resources
 c the quality of natural resources d preservation of natural resources
 (school book)
- 12 Wadi Al-Hitan protectorate is one procedure of.....
 a sustainability of natural resources b depletion of natural resources
 c the quality of natural resources. d preservation of natural resources.
 (school book)
- 13 Most of water on Earth is
 a a mixture of fresh and salt water that is found in estuaries.
 b fresh water that is found underground.
 c salt water that is found in oceans and seas
 d fresh water that is found in lakes.
 (Cairo 2023)
- 14 All the following reasons cause water pollution in a river, except
 a litter of a nearby trash dump.
 b waste of a nearby factory.
 c chemical fertilizers of a nearby farm.
 d building a dam across the river.
 (school book)



Question 02

put (true) or (false)

- ① Upstream is the place where a river starts. ()
- ② Adding some of mud to a clear water can pollute it. ()
- ③ Water is considered a non-renewable natural resource. ()
- ④ Dams can be used to filter polluted water roused again. ()
- ⑤ Watershed it is an area where water from one source only flows towards. ()
- ⑥ Wastewater engineers decide where to build water treatment plants. ()
- ⑦ Wastewater engineers are scientists who work on recycling wastewater in water treatment plants. ()
- ⑧ When fresh water is polluted, it becomes drinkable. ()
- ⑨ Recycling of polluted water means removing useful materials from water ()
- ⑩ The water of tributaries flows directly into seas and oceans. ()
- ⑪ Cotton can be used as a filter to remove some waste materials from water. ()
- ⑫ Placing cows in many small grass areas is considered as sustainable situation. ()
- ⑬ Some human activities are responsible for water pollution. ()
- ⑭ Building factories is from human strategies to control and conserve fresh water. ()
- ⑮ Cotton can be used as a filter to remove waste from water ()

Question 03

Complete the following sentences

- ① When the rate of rainfall decreases, the level of water in rivers will causing
- ② Clothes can be made from products or products.
- ③ Cotton, and can be used in making a simple water filter.





- 4 Wastewater engineers can test the quality of by checking for the amount of in water.
- 5 Water treatment plants recycle the by removing harmful materials from it to reuse it again.
- 6 We must take a quick shower to conserve
- 7 Building a cross a tributary can change the amount of water in it.
- 8 Water treatment plants recycle the by removing harmful materials from it to reuse the water again.
- 9 To conserve water, we can the time of washing our hands.
- 10 If we use fossil fuels wisely without negatively affecting their amount in the future, this is called

Question 04

write scientific term for each of the following

- 1 It is an area of land where all the water flows in one direction to a common location such as an ocean, a sea or other large water body. ()
- 2 The action of control reaching of humans to the natural resources or using them. ()
- 3 It means using resources in a way that does not negatively affect the future supply of these resources. ()
- 4 It is the water that has already been used in homes and different industries. ()
- 5 Scientists who work in water treatment plants. ()
- 6 They are stations which recycle wastewater by removing harmful materials from wastewater to reuse it. ()
- 7 They are small water bodies such as small creeks or streams that flows into bigger rivers ()
- 8 A phenomenon that happens due to the increase of the level of water in rivers and streams. ()
- 9 A phenomenon that happens due to the decrease of the level of water in rivers and streams ()
- 10 A type of pollution that occurs as a result of throwing waste in rivers and seas. ()



Question 06

give reason

- 1 Farms near tributaries may cause water pollution
.....
- 2 We should turn off water during washing dishes.
.....
- 3 Countries prevent using or developing natural resource in some protected areas of land.
.....
- 4 Cutting down too many trees of forests leads to soil erosion.
.....
- 5 Scientists recycle fresh waste water to get filtered water again.
.....

Question 07

what happens

- 1 You mix clear water with small amount of mud.
.....
- 2 Fish are eaten more than they are replaced in the ocean.
.....
- 3 The rate of rain fall increases on a river.
.....
- 4 Polluted water is passed through a water filter.
.....
- 5 A trash dump is established near a tributary that is connected with river
.....





Question 01

Choose the correct answer

- 1 A boy on slide moves down toward due to the effect off
 - a friction
 - b gravity
 - c temperature of air
 - d boy's Hight
- 2 Gravity keeps the moon revolve in orbit around.....
 - a The Sun
 - b the earth
 - c Itself
 - d another moon
- 3 The force of keeps the planets on their paths around the sun
 - a friction
 - b gravity
 - c air resistance
 - d electricity
- 4 The acting force on the moon to make it revolves around the earth is.....
 - a Earth's gravity
 - b sun's gravity
 - c moon's gravity
 - d Mars's gravity
- 5 Magnetism is a kind of..... force.
 - a attraction only
 - b repulsion only
 - c visible
 - d invisible
- 6 Earth attracts objects towards.....
 - a its center
 - b the sky
 - c the moon
 - d the sun
- 7 As the mass of the object increases, its increases.
 - a movement
 - b force
 - c gravity
 - d illumination
- 8 The gravitational force of an object as its mass increase.
 - a equal zero
 - b increase
 - c decrease
 - d doesn't change
- 9 Two magnets move away from each other when there is force between them.
 - a Gravitational
 - b repulsion
 - c contact
 - d pulling
- 10 A force that is created between two attached surfaces leading to slow movement is called..... force.
 - a pushing
 - b dragging
 - c friction
 - d pulling
- 11 The force that causes skydivers to moves down is called
 - a friction
 - b gravity
 - c air resistance
 - d electricity
- 12 Gravity depends on the of a body
 - a Speed
 - b mass
 - c length
 - d age



- 13 A table stands on the ground needs.....to move.
 a Sunlight b mass c force d air
- 14 locates at the center of our solar system.
 a The moon b The Sun c the Earth d Moon and Sun
- 15 Any object has depending on its mass.
 a Gravity b Speed c Electric d magnetism
- 16 Gravity pulls objects toward the of Earth.
 a The center b the sky c the moon d the Sun
- 17 Friction forcethe movement of objects.
 a Slows down b increases c speeds up d doesn't affect
- 18is considered as a type of friction force.
 a Magnetism b gravity c electric d air resistance
- 19 Earth's gravity pulls down things toward Earth.....
 a in inclined angle b perpendicularly c horizontally forward d vertically upwards
- 20 Object moves under the effect of..... forces.
 a pull - push b pull - drag c revolving and push d pull and attraction
- 21 is a factor that acts against gravity force.
 a Magnetism b mass of object c air resistance d shape of an object
- 22 The force of.....keeps the planets on their paths around the Sun.
 a air resistance b friction c gravity d electricity
- 23 The acting force on the moon to make it revolves around the Earth is.....
 a Earth's gravity b Sun's gravity c moon's gravity d Mars's gravity
- 24 If the distance between the moon and Earth is doubled, the force of gravity.....between them.
 a increases b vanishes c decreases d doesn't change
- 25 From the materials which are attracted to the magnet.....
 a Iron and nickel b aluminum and copper c silver and gold d aluminum and silver



- 26 A force that is created between two attached surfaces leading to slow movement is called force.
- (a) Pushing (b) dragging (c) friction (d) pulling
- 27 A person can exert a weak force to move.....
- (a) a big truck (b) a real car (c) a very big rock (d) a toy car
- 28 The pulling force of a magnet attracts materials made of
- (a) Wood (b) plastic (c) iron (d) rocks
- 29 Magnetism is a force that attracts objects made of the following materials, except.....
- (a) Iron (b) nickel (c) wood (d) cobalt
- 30 Magnet attracting paper clips is evidence that magnet.....
- (a) needs force (b) has a force (c) loses force (d) gains force

Question 02

put (true) or (false)

- 1 The gravity of moon affects the ocean tides. ()
- 2 Earth pulls object toward its moon. ()
- 3 Gravity is a push force that causes the moving objects to move downward ()
- 4 Gravity pulls objects toward the center of Earth. ()
- 5 Magnetism is a force of pushing or pulling between two magnets ()
- 6 The magnet can exert a pulling force only ()
- 7 Magnetism represents pushing or pulling force. ()
- 8 The moon stays in fixed orbit around Earth due to the gravity between them. ()
- 9 Gravity of Earth pushes objects towards its center. ()
- 10 All objects are pulled toward the ground due to the effect of gravity. ()
- 11 Magnetism is a type of friction force ()
- 12 Gravity pulls objects toward the center of Earth. ()



- 13 Earth pulls living organisms only toward its center. ()
- 14 Air resistance slows down the speed of parachutes. ()
- 15 Air resistance is a factor that speeds up the falling objects toward the earth. ()
- 16 The planets revolve around the Sun by the effect of gravitational pushing force. ()
- 17 Parachute helps in increasing the velocity of object falling to the ground. ()
- 18 The Earth's gravity keeps all planets in their orbits. ()
- 19 The force of magnet is always attraction force only. ()
- 20 As the mass of the object increases, its gravity increases ()
- 21 Magnet has the force of attracting metals such as silver and gold. ()
- 22 The orbit of each planet has an ellipse shape. ()
- 23 The scientist Nicolaus Copernicus stated that Earth revolves around the Sun. ()
- 24 Earth rotates around its axis at a speed nearly equals 107000 km/hour ()
- 25 The planets revolve around the Sun in a circular orbit. ()

Question 03

Complete the following sentences

- 1 The moon moves around due to gravity.
- 2 The gravity of the moon affects the phenomena of ocean
- 3 When a boy moves down a slide, this is due to the force of
- 4 Force may push or the object to make it move.
- 5 Magnetism is a force that attracts objects.
- 6 If the mass of the moon increases than its real mass, its gravitational attraction will
- 7 is a pull or push that is applied to an object.



- 8 Gravity pulls objects toward the of Earth.
- 9 The gravity of Earth is than that of the moon because Earth has a greater mass than the moon.
- 10 Magnet can attract some objects by a force called
- 11 The force between two magnets is called
- 12 revolves around the sun in fixed orbit.
- 13 The direction of Earth's gravity is always toward of Earth.
- 14 The force of gravity is always force, and it changes the of movement.
- 15 force opposes the motion of the body and slows down its speed.
- 16 Air resistance is a type of force.
- 17 The force that keeps all planets around the Sun is called
- 18 Earth revolves around the Sun in a fixed path that has shape
- 19 Any object has depending on its mass.
- 20 is a force generated between two touching surfaces.

Question 04

write scientific term for each of the following

- 1 A force that pulls object down toward the Earth's center ()
- 2 A phenomenon takes place in oceans and seas due to gravity of moon. ()
- 3 The effect that pulls or pushes an object to make it moves. ()
- 4 An invisible force that attracts iron paper clips to the magnet. ()
- 5 The force that is found between two magnets or between the magnet and an object. ()
- 6 The force that opposes the motion of a body across a solid, a liquid or gas. ()



- 7 A force between two objects in contact with each other's, and it affects in the opposite direction of movement force. ()
- 8 A type of friction force that opposes the movement of an object as it passes through air. ()
- 9 The law which states that the force of gravity is constant and acts on all objects in the same way. ()
- 10 A scientist proved that the Sun is the center of our solar system. ()

Question 05

Cross out the odd word

- 1 Friction — The Sun — Gravity — Air resistance.
- 2 Nickel — Cobalt — wood — iron.

Question 06

give reason

- 1 The force of gravity has an important role in the solar system.
.....
- 2 The moon rotates around the Earth in a fixed orbit.
.....
- 3 After the skydivers jump from a plane, they always move toward the ground.
.....
- 4 The moon is attached to the earth.
.....
- 5 Paper clips are pulled towards the magnet
.....
- 6 Gravity of the earth is greater than the gravity of the moon.
.....



- 7 Gravitational force depends on distance
.....
- 8 Planets revolve around the Sun in fixed orbits
.....
- 9 You always land on the ground when you jump up.
.....
- 10 Air resistance affects object movement which falls from a height.
.....
- 11 Some iron nails are attracted to a magnet.
.....
- 12 The skydivers land safely when he open his parachute.
.....

question 07

what happens

- 1 The distance between the earth and the moon increases twice.
.....
- 2 The mass of moon becomes twice its real mass.
.....
- 3 The mass of the moon decreases to half.
.....
- 4 The gravity of the Sun if its mass decreases than it is now.
.....
- 5 Absence of gravity between Sun and the planets of solar system.
.....
- 6 You throw a basketball into the air.
.....
- 7 A magnet is placed near to some paper clips
.....
- 8 The gravity of the earth is a repulsion force not an attraction force.
.....

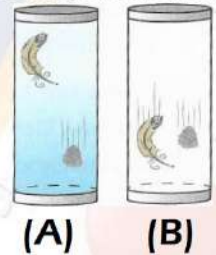


- 9 A person uses the brake of a moving bicycle.
.....
- 10 To the speed of skydiver if he opens his parachute during landing.
.....
- 11 If a metal ball and a feather are fallen down from a tower.
.....

Question 08

answer the following

- 1 What is the force that makes planets revolve in fixed orbits around the Sun?
.....
- 2 What are the factors that affect the gravity between two objects?
.....
- 3 **Imagine that jar (A) contains air, while jar (B) doesn't contain air.**
 - a The two bodies in jar (A) are affected by.....
(gravity only – air resistance and gravity)
 - b The two bodies in jar (B) are affected by.....
(gravity only – air resistance and gravity)
- 4 **Look at the opposite figure, then answer:**
The force of opposes the force of Earth and slows down the falling of skydiver.



انتهت الأسئلة مع أطيّب الامنيات بالنجاح والتوفيق



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Model Answers

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يرجى مراعاة حقوق صاحب المحتوى عند النشر.



March Questions Bank



Question 01

Choose the correct answer

- 1 The area of land where all the water flows in one direction to a common location as ocean is called

a tributary b estuary c wetland d **watershed**

(Qalyoubia 2023)
- 2 Waste water engineers work in Egypt in.....

a Ras Mohammed protector b Lake Bardwell c **Bahr Al Baqar plant** d electrical power plant

(school book)
- 3 Prevent developing of Ras Mohamed Protectorate is considered as an example of

a **preservation** b pollution c sustainability d consumption

(Cairo 2023)
- 4 All the following materials can be used to filter wastewater in simple water filter, except

a cotton b **wood** c charcoal d sand

(Cairo 2023)
- 5 process is used to get filtered water from polluted water.

a **Recycling** b Sustainability c Preservation d Conservation

(El-Gharbia 2023)
- 6 Water cycle is considered as an example of

a **recycling water** b preservation of water c overusing water d conservation of water

(Cairo 2023)
- 7 Water filters are used to remove materials from polluted water.

a **harmful** b solar system c day and night d electricity

(Cairo 2023)
- 8 of resources, requires managing its usage methods.

a Depletion b **Sustainability** c Renewability d Scarcity



- 9 Pollution is one of the problems to achieve (affect) of resources.
 a preservation b **sustainability** c restoration d renewability
 (school book)
- 10 is an evidence of limiting the possibility of using and accessing resources.
 a Lake Qaroun b **Natural protectorates** c Well water d Biome systems
 (school book)
- 11 A protectorate is an example of
 a sustainability of natural resources b depletion of natural resources
 c the quality of natural resources d **preservation of natural resources**
 (school book)
- 12 Wadi Al-Hitan protectorate is one procedure of.....
 a sustainability of natural resources b depletion of natural resources
 c the quality of natural resources. d **preservation of natural resources.**
 (school book)
- 13 Most of water on Earth is
 a a mixture of fresh and salt water that is found in estuaries.
 b fresh water that is found underground.
 c **salt water that is found in oceans and seas**
 d fresh water that is found in lakes.
 (Cairo 2023)
- 14 All the following reasons cause water pollution in a river, except
 a litter of a nearby trash dump.
 b waste of a nearby factory.
 c chemical fertilizers of a nearby farm.
 d **building a dam across the river.**

(school book)



Question 02

put (true) or (false)

- ① Upstream is the place where a river starts. ✓
- ② Adding some of mud to a clear water can pollute it. ✓
- ③ Water is considered a non-renewable natural resource. ✗
- ④ Dams can be used to filter polluted water roused again. ✗
- ⑤ Watershed it is an area where water from one source only flows towards. ✗
- ⑥ Wastewater engineers decide where to build water treatment plants. ✓
- ⑦ Wastewater engineers are scientists who work on recycling wastewater in water treatment plants. ✓
- ⑧ When fresh water is polluted, it becomes drinkable. ✗
- ⑨ Recycling of polluted water means removing useful materials from water ✗
- ⑩ The water of tributaries flows directly into seas and oceans. ✗
- ⑪ Cotton can be used as a filter to remove some waste materials from water. ✓
- ⑫ Placing cows in many small grass areas is considered as sustainable situation. ✗
- ⑬ Some human activities are responsible for water pollution. ✓
- ⑭ Building factories is from human strategies to control and conserve fresh water. ✗
- ⑮ Cotton can be used as a filter to remove waste from water ✓

Question 03

Complete the following sentences

- ① When the rate of rainfall decreases, the level of water in rivers will **decrease** causing **drought**.
- ② Clothes can be made from **animal** products or **plant** products.
- ③ Cotton, **charcoal** and **sand** can be used in making a simple water filter.



- ④ Wastewater engineers can test the quality of **water** by checking for the amount of **pollutants** in water.
- ⑤ Water treatment plants recycle the **wastewater** by removing harmful materials from it to reuse it again.
- ⑥ We must take a quick shower to conserve **fresh water**.
- ⑦ Building a **dam** cross a tributary can change the amount of water in it.
- ⑧ Water treatment plants recycle the **waste water** by removing harmful materials from it to reuse the water again.
- ⑨ To conserve water, we can **decrease** the time of washing our hands.
- ⑩ If we use fossil fuels wisely without negatively affecting their amount in the future, this is called **sustainability**

Question 04

write scientific term for each of the following

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> ① It is an area of land where all the water flows in one direction to a common location such as an ocean, a sea or other large water body. ② The action of control reaching of humans to the natural resources or using them. ③ It means using resources in a way that does not negatively affect the future supply of these resources. ④ It is the water that has already been used in homes and different industries. ⑤ Scientists who work in water treatment plants. ⑥ They are stations which recycle wastewater by removing harmful materials from wastewater to reuse it. ⑦ They are small water bodies such as small creeks or streams that flows into bigger rivers ⑧ A phenomenon that happens due to the increase of the level of water in rivers and streams. ⑨ A phenomenon that happens due to the decrease of the level of water in rivers and streams ⑩ A type of pollution that occurs as a result of throwing waste in rivers and seas. | <p>watershed</p> <p>preservation</p> <p>sustainability</p> <p>Wastewater</p> <p>Wastewater engineers</p> <p>water treatment plants</p> <p>Tributaries</p> <p>flooding</p> <p>drought</p> <p>water pollution</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



Question 06

give reason

- 1 Farms near tributaries may cause water pollution
Due to using of chemical fertilizers that cause water pollution
- 2 We should turn off water during washing dishes.
To conserve fresh water
- 3 Countries prevent using or developing natural resource in some protected areas of land.
To preserve natural resources.
- 4 Cutting down too many trees of forests leads to soil erosion.
Because it leads to deforestation so water and wind can carry away soil causing soil erosion
- 5 Scientists recycle fresh waste water to get filtered water again.
Because fresh water is limited natural resource and its important for all living organisms to survive

Question 07

what happens

- 1 You mix clear water with small amount of mud.
It will become dirty water
- 2 Fish are eaten more than they are replaced in the ocean.
They become rare and fishing will decrease
- 3 The rate of rain fall increases on a river.
The level of water on river will increase causing floods.
- 4 Polluted water is passed through a water filter.
Harmful waste materials will be removed from it and becomes filtered water
- 5 A trash dump is established near a tributary that is connected with river
The litter will be blown into the water of tributary then into the river causing water pollution.





Question 01

Choose the correct answer

- 1 A boy on slide moves down toward due to the effect off
 - a friction
 - b **gravity**
 - c temperature of air
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 a Sunlight b mass c **force** d air
- 14 locates at the center of our solar system.
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- 24 If the distance between the moon and Earth is doubled, the force of gravity.....between them.
 a increases b vanishes c **decreases** d doesn't change
- 25 From the materials which are attracted to the magnet.....
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- 26 A force that is created between two attached surfaces leading to slow movement is called force.
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- 27 A person can exert a weak force to move.....
- a a big truck b a real car c a very big rock d **a toy car**
- 28 The pulling force of a magnet attracts materials made of
- a Wood b plastic c **iron** d rocks
- 29 Magnetism is a force that attracts objects made of the following materials, **except**.....
- a Iron b nickel c **wood** d cobalt
- 30 Magnet attracting paper clips is evidence that magnet.....
- a needs force b **has a force** c loses force d gains force

Question 02

put (true) or (false)

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- 7 Magnetism represents pushing or pulling force. ✓
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- 9 Gravity of Earth pushes objects towards its center. ✗
- 10 All objects are pulled toward the ground due to the effect of gravity. ✓
- 11 Magnetism is a type of friction force ✗
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- 14 Air resistance slows down the speed of parachutes. ✅
- 15 Air resistance is a factor that speeds up the falling objects toward the earth. ❌
- 16 The planets revolve around the Sun by the effect of gravitational pushing force. ❌
- 17 Parachute helps in increasing the velocity of object falling to the ground. ❌
- 18 The Earth's gravity keeps all planets in their orbits. ❌
- 19 The force of magnet is always attraction force only. ❌
- 20 As the mass of the object increases, its gravity increases ✅
- 21 Magnet has the force of attracting metals such as silver and gold. ❌
- 22 The orbit of each planet has an ellipse shape. ✅
- 23 The scientist Nicolaus Copernicus stated that Earth revolves around the Sun. ✅
- 24 Earth rotates around its axis at a speed nearly equals 107000 km/hour ❌
- 25 The planets revolve around the Sun in a circular orbit. ❌

Question 03

Complete the following sentences

- 1 The moon moves around **earth** due to gravity.
- 2 The gravity of the moon affects the phenomena of ocean **tide**
- 3 When a boy moves down a slide, this is due to the force of **gravity**
- 4 Force may push or **pull** the object to make it move.
- 5 Magnetism is a force that attracts **metal** objects.
- 6 If the mass of the moon increases than its real mass, its gravitational attraction will **increase**
- 7 **Force** is a pull or push that is applied to an object.



- 8 Gravity pulls objects toward the **center** of Earth.
- 9 The gravity of Earth is **bigger** than that of the moon because Earth has a greater mass than the moon.
- 10 Magnet can attract some objects by a force called **magnetism**
- 11 The force between two magnets is called **magnetism**
- 12 **The earth** revolves around the sun in fixed orbit.
- 13 The direction of Earth's gravity is always toward **the center** of Earth.
- 14 The force of gravity is always **pulling** force, and it changes the **direction** of movement.
- 15 **friction** force opposes the motion of the body and slows down its speed.
- 16 Air resistance is a type of **friction** force.
- 17 The force that keeps all planets around the Sun is called **gravitational force**
- 18 Earth revolves around the Sun in a fixed path that has **oval (ellipse)** shape
- 19 Any object has **gravity** depending on its mass.
- 20 **Friction** is a force generated between two touching surfaces.

Question 04

write scientific term for each of the following

- 1 A force that pulls object down toward the Earth's center **Gravity**
- 2 A phenomenon takes place in oceans and seas due to gravity of moon. **Tides**
- 3 The effect that pulls or pushes an object to make it moves. **Force**
- 4 An invisible force that attracts iron paper clips to the magnet. **Magnetism**
- 5 The force that is found between two magnets or between the magnet and an object. **Magnetism**
- 6 The force that opposes the motion of a body across a solid, a liquid or gas. **Friction force**



- 7 A force between two objects in contact with each other's, and it affects in the opposite direction of movement force.
- 8 A type of friction force that opposes the movement of an object as it passes through air.
- 9 The law which states that the force of gravity is constant and acts on all objects in the same way.
- 10 A scientist proved that the Sun is the center of our solar system.

Friction force

Air resistance

The law of motion

Nicolas copernicus

Question 05

Cross out the odd word

- 1 Friction — The Sun — Gravity — Air resistance.
- 2 Nickel — Cobalt — wood — iron.

the sun

wood

Question 06

give reason

- 1 The force of gravity has an important role in the solar system.

Because gravity between the sun and the and objects in the solar system keeps the planets revolve in fixed orbits around the sun

- 2 The moon rotates around the Earth in a fixed orbit.

Due to the gravitational force of the earth.

- 3 After the skydivers jump from a plane, they always move toward the ground.

Due to the earth gravity which pulls them toward the ground.

- 4 The moon is attached to the earth.

Due to the gravitational attraction between the earth and the moon.

- 5 Paper clips are pulled towards the magnet

Due to the force of magnetism.

- 6 Gravity of the earth is greater than the gravity of the moon.

Because the mass of the earth is greater than the mass of the moon.



- 7 Gravitational force depends on distance
Because when the distance between two objects increases, the gravitational force decreases and vice versa
- 8 Planets revolve around the Sun in fixed orbits
Due to the great gravitational pulling force between the sun and the planets.
- 9 You always land on the ground when you jump up.
Due to the effect of gravity that's always pull the objects toward it
- 10 Air resistance affects object movement which falls from a height.
Because it slows down the movement of object during its falling
- 11 Some iron nails are attracted to a magnet.
Because the magnetism force pulls them toward the magnet
- 12 The skydivers land safely when he open his parachute.
The parachute slows down his speed on landing due to air resistance.

Question 07

what happens

- 1 The distance between the earth and the moon increases twice.
The gravitational attraction between them would become smaller.
- 2 The mass of moon becomes twice its real mass.
The gravitational force between earth and the moon increases so the moon comes closer to earth and it might crash into the earth.
- 3 The mass of the moon decreases to half.
The moon would have less gravity.
- 4 The gravity of the Sun if its mass decreases than it is now.
The gravity of the sun will decrease.
- 5 Absence of gravity between Sun and the planets of solar system.
The planets will leave their orbits and float off into the space.
- 6 You throw a basketball into the air.
The ball will go up into the air and then fall down back to the ground due to the gravity force.

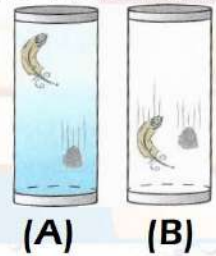


- 7 A magnet is placed near to some paper clips
The magnet will attack the paper clip due to the magnetism force.
- 8 The gravity of the earth is a repulsion force not an attraction force.
All objects on its surface will move upward away from earth's surface
- 9 A person uses the brake of a moving bicycle.
The break will produce friction force which slows the movement of the bicycle
- 10 To the speed of skydiver if he opens his parachute during landing.
the speed of the skydiver decreases gradually due to air resistance
- 11 If a metal ball and a feather are fallen down from a tower.
The metal ball will reach the ground first.

Question 08

answer the following

- 1 What is the force that makes planets revolve in fixed orbits around the Sun?
The gravitational force (the gravity).
- 2 What are the factors that affect the gravity between two objects?
The mass of two objects and the distance between them.
- 3 **Imagine that jar (A) contains air, while jar (B) doesn't contain air.**
 - a The two bodies in jar (A) are affected by.....
(gravity only — **air resistance and gravity**)
 - b The two bodies in jar (B) are affected by.....
(**gravity only** — air resistance and gravity)
- 4 **Look at the opposite figure, then answer:**
The force of **air resistance** opposes the **gravitational** force of Earth and slows down the falling of skydiver.



انتهت الأسئلة مع أطيّب الامنيات بالنجاح والتوفيق

