

بنك اسئلة

الصف
السادس
الابتدائي
٢٠٢٤

التميز

أ/ محمود سعيد



ELMotamyez Questions Bank

science

November Revision

By

MRS . Amira Ahmed



Cartoon Science

6

الصف
السادس

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".
© يرجى مراعاة حقوق صاحب المحتوى عند النشر.



November Questions Bank



Question 01

Choose the correct answers

CONCEPT 2

- 1 Absorption of nutrients inside the body starts in the organ.
 (a) large intestine (b) heart (c) small intestine (d) stomach
- 2 Engineers design special devices to work instead of organ which filter the blood from waste materials.
 (a) stomach (b) heart (c) kidney (d) lung
- 3 The system which helps the digestive system in transporting the nutrients to all different body organs is the system.
 (a) nervous (b) respiratory (c) circulatory (d) excretory
- 4 The systems of the human body get their needed energy from
 (a) Sun (b) food (c) water (d) carbon dioxide.
- 5 Urination process happens by the help of system.
 (a) digestive (b) urinary (c) respiratory (d) skeletal
- 6 The organ which belongs to the digestive system and secretes fluids contain an acid and some enzymes is the
 (a) esophagus (b) stomach (c) small intestine (d) mouth
- 7 All the following are from the nutrients that the food contains, except
 (a) carbohydrates (b) oxygen (c) fats (d) proteins
- 8 The two kidneys play an important role in the filtration of inside your body.
 (a) water (b) enzyme (c) acid (d) blood
- 9 The system which converts the complex food into simpler substances that the body can use for energy and growth is the system.
 (a) respiratory (b) circulatory (c) digestive (d) nervous
- 10 The process of expelling urine from the body is called process.
 (a) urination (b) respiration (c) sensation (d) digestion



- 11 You can use your muscles to help the teeth chew the food
 (a) eye (b) cardiac (c) jaw (d) hand
- 12 blood carries formed inside small intestine to all the body organs.
 (a) feces (b) undigested food (c) bones (d) nutrients
- 13 All the following are from the waste materials which are produced by your body, except
 (a) urine (b) oxygen gas (c) carbon dioxide (d) sweat
- 14 Urea is formed due to the breaking down of inside the body cells.
 (a) carbohydrates (b) proteins (c) fats (d) acids
- 15 The tube which transports the urine from the kidney to the bladder is the
 (a) vein (b) urethra (c) ureter (d) artery
- 16 The body gets rid of waste materials by process.
 (a) digestion (b) excretion (c) respiration (d) sensation
- 17 The organ which is responsible for secreting sweat is the
 (a) stomach (b) esophagus (c) skin (d) kidney
- 18 The large intestine absorbs from the undigested food
 (a) nutrients (b) water (c) blood (d) urea
- 19 The blood which carries the waste materials, enters each kidney through a large
 (a) vein (b) artery (c) blood capillary (d) ureter
- 20 The feces store inuntil it leaves the body.
 (a) Small intestine (b) Large intestine (c) esophagus (d) anus



Question 02

put (true) or (false)

- 1 People whose kidneys are not working properly must use other devices to filter the blood from waste. ()
- 2 The feces leaves the body through a bony opening known as anus. ()
- 3 Proteins can pass through nephrons during filtration of blood in the two kidneys. ()
- 4 Circulatory system transports the digested food to different body organs ()
- 5 Systems get their needed energy from the food we eat ()
- 6 When your body needs energy, liver and muscles convert glycogen into glucose again. ()
- 7 All nutrients that are absorbed from small intestine are stored as fats inside the body. ()
- 8 Studying a kidney model can save time, money and effort. ()
- 9 The two kidneys remove waste materials from the blood. ()
- 10 Glycogen is converted into glucose and stored in liver and muscles. ()
- 11 Saliva is a liquid which is secreted by endocrine system inside your mouth. ()
- 12 The digested food enters the colon as a soupy mixture. ()
- 13 The two kidneys remove waste materials from undigested food which come out in the form of urine. ()
- 14 Nephron helps in the filtration of blood from urea. ()
- 15 Colon absorbs most of water from the undigested food that leaves the body ()
- 16 If your body doesn't get rid of waste, you will be healthy. ()
- 17 Digestion begins when the food enters esophagus ()
- 18 Kidneys are considered as a filtering system for the blood ()
- 19 The main waste product which is expelled by respiratory system is the urea. ()
- 20 Urine is expelled outside the body through urethra. ()



Question 04

write the scientific term for each of the following

- 1 The system which converts the complex food into simpler substances that the body can use to get energy. ()
- 2 The last part of large intestine that stores the feces until it leaves the body. ()
- 3 The organ which helps in excretion of sweat through the pores that are found in it. ()
- 4 The process of breaking down the complex food into simpler substances. ()
- 5 It is a microscopic filter that is found in the two kidneys and filters the blood from waste materials. ()
- 6 A substance that is stored in liver and muscles, then converted into glucose when your body needs energy. ()
- 7 A liquid in your mouth contains an enzyme which helps in digestion process. ()
- 8 The system that is responsible for excretion of carbon dioxide gas. ()
- 9 The organ which absorbs most of water from the undigested food. ()
- 10 It is a system that is responsible for storing and getting rid of waste materials produced from cells ()
- 11 A substance which is formed due to the breakdown of proteins inside the body cells. ()
- 12 It is the process of removing the waste products resulting from burning food inside the body cells through their membranes. ()
- 13 It is the process of expelling urine from the body. ()
- 14 An organ in which absorption of nutrients starts. ()



Question 05

Give reason for each of the following

- 1 The liver and muscles convert the stored glycogen into glucose sugar.
.....
- 2 The body needs to convert complex food into simpler substance.
.....
- 3 Importance of excretion process to your body.
.....
- 4 Walls of small intestine contain blood vessels.
.....
- 5 The two kidneys contain many nephrons.
.....
- 6 Undigested food becomes solid wastes inside the large intestine.
.....
- 7 Saliva plays an important role in digestion of food inside the mouth.
.....

Question 06

What happens if ?

- 1 The blood that carries waste materials passes through nephrons of the two kidneys.
.....
- 2 Saliva is not secreted during chewing the food inside your mouth.
.....
- 3 The blood does not pass through the two kidneys during its circulation inside the human body.
.....
- 4 Your body doesn't get rid of waste.
.....



Question 01

Choose the correct answers

CONCEPT 3

All the following materials are called magnetic materials, except

- 1 ☐ a iron ☐ b plastic ☐ c nickel ☐ d steel

Mechanical energy is converted into energy in the generators.

- 2 ☐ a light ☐ b sound ☐ c electric ☐ d thermal

Electricity can flow through

- 3 ☐ a electric conductors ☐ b electric insulators ☐ c wooden bar ☐ d an eraser

All the following materials are electric insulators, except

- 4 ☐ a rubber ☐ b plastic ☐ c wood ☐ d steel

Magnets can be made of

- 5 ☐ a copper ☐ b glass ☐ c iron ☐ d plastic

..... are used to stop the flow of electricity.

- 6 ☐ a Resistors ☐ b Electric conductors ☐ c Electric insulators ☐ d Galvanometers

The area around the magnet in which its force appears is known as.....

- 7 ☐ a magnetic field ☐ b magnetism ☐ c electric current ☐ d gravity

The flow of electric charges along a closed path causes

- 8 ☐ a electric circuit ☐ b light energy ☐ c electric current ☐ d sound energy

In the circuit, all components are connected in one loop.

- 9 ☐ a open parallel ☐ b closed parallel ☐ c open series ☐ d closed series

..... is a magnetic material that is attracted to the magnet.

- 10 ☐ a Copper ☐ b Iron ☐ c Gold ☐ d Wood

Magnet affects certain objects like.....when they locate in its magnetic field

- 11 ☐ a wood and steel ☐ b nickel and plastic ☐ c iron and copper ☐ d cobalt and steel

In a, the electric current can flow through different branches.

- 12 ☐ a series circuit ☐ b parallel circuit ☐ c resistor ☐ d microwave



- 13 are used to spin the magnet in the generator to produce electricity
 (a) Water and winds (b) Light and sound (c) Electricity and sound (d) Sound and heat
- 14 is used to slow the flow of an electric current in the electric circuit.
 (a) battery (b) switch (c) resistor (d) lamp
- 15 The electric wires are covered with
 (a) copper (b) plastic (c) iron (d) glass
- 16 Scientists use a to detect the flow of small electric currents.
 (a) generator (b) galvanometer (c) battery (d) switch
- 17 The source of electricity in any electric circuit may be
 (a) metal wire (b) a switch (c) a battery (d) an electric lamp
- 18 All the following materials are considered as electric conductors, except
 (a) copper (b) water (c) rubber (d) Iron
- 19 The electric wires can be made of or
 (a) wood - plastic. (b) Rubber-wood (c) aluminum - copper (d) plastic - rubber
- 20 The electric circuit contains which is responsible for opening and closing the circuit.
 (a) a battery (b) a switch (c) a lamp (d) a heater
- 21 The internal switch on a can be used in the refrigerator to adjust its temperature.
 (a) battery (b) thermostat (c) light bulb (d) wall socket
- 22 is a material that cannot allow electric current to flow through.
 (a) Iron (b) Copper (c) Plastic (d) Cobalt

Question 02

put (true) or (false)

- 1 The electric devices in houses are connected in series circuits. ()
- 2 Cobalt is an example of magnetic materials. ()
- 3 Earth attracts all objects on its surface due to its great mass ()



- 4 Copper, rubber and iron are electric conductors. ()
- 5 Electricity and magnetism can work together. ()
- 6 In the series circuits, the electric current can flow in different branches. ()
- 7 Electric wires are covered with plastic to protect us from electric shock ()
- 8 The magnet has a force called magnetism ()
- 9 All metals are electric insulators. ()
- 10 Electricity can be produced from magnetism. ()
- 11 Electric current can flow through all materials ()
- 12 A piece of aluminum foil and a plastic spoon will be attracted to the magnet. ()
- 13 The thermostat in a refrigerator contains an automatic switch ()
- 14 Electric insulators only allow electric current to pass through them. ()
- 15 Wood and plastic are electric insulators. ()
- 16 The magnetic objects are attracted to the magnet at any distance from the magnet. ()
- 17 Magnetism is an attraction or a repulsion force, while gravity is a repulsion force only ()
- 18 All materials can be attracted to the magnet. ()
- 19 Magnets attract the non-magnetic materials such as iron, nickel and steel. ()
- 20 Resistors are used to slow the flow of electrons through an electric circuit. ()
- 21 All magnets can be made of some materials like iron and glass ()
- 22 All materials allow electric current to flow through them ()
- 23 Towns and cities are parts of an electric circuit ()
- 24 Copper, aluminum and rubber are electric conductors. ()
- 25 There is no relation between magnetism and electricity. ()



Question 03

Complete the following Sentences

- 1 Handles of screwdrivers are made of plastic as it is an electric
- 2 The magnetic materials will be attracted to the magnet when they are located atof the magnet.
- 3 By increasing the distance between objects, the force between them
- 4 The electric current causes in the human body as it contains that is good conductor of electricity.
- 5 Gravity attracts any object that has
- 6 Rubber is an electric, while copper is an electric
- 7 Electric wire coated withorto protect us from
- 8 Electric wires are made of copper which is an electricbut they are wrapped inwhich is an electric insulator.
- 9 Copper andwill not attract to the magnet as they are.....materials
- 10 In thecircuit there is only one path that the electric current can flow through.
- 11 The generator consists of largeand
- 12 Magnets attract some metals, such as,and
- 13 Electric circuits in houses are connected inway.
- 14 All metals likeandare called electric
- 15 Electric wires are coated byas it is an electric insulator.
- 16 Materials are classified according to their ability to be attracted to the magnet intomaterials andmaterials.
- 17 The electric current can transmit in a path called
- 18 A moving magnet inside a coiled wire can generate
- 19 The tool that opens and close the circuit is called
- 20 Magnetism is an attraction orforce, while gravity isforce only



Question 04

write the scientific term for each of the following

- 1 The area around the magnet in which its magnetic force appears. ()
- 2 The materials that are attracted to the magnet. ()
- 3 The materials that are not attracted to the magnet. ()
- 4 The force that allows the magnet to attract some materials without making direct contact. ()
- 5 One of the components of an electric circuit that is used to limit the flow of electricity through the circuit. ()
- 6 It is used to adjust the temperature inside some devices such as the refrigerator ()
- 7 The device which changes mechanical energy into electrical energy. ()
- 8 A device can be used to detect the flow of small electric currents. ()
- 9 The force of Earth which attracts all objects on its surface to its center. ()
- 10 A form of energy produced from generators and turbines. ()
- 11 A tool in the circuit which is used to open and close the circuit. ()
- 12 The flow of electrons through an electric wire. ()
- 13 A closed loop through which electric current can flow. ()
- 14 The materials that the electric charges can flow through. ()
- 15 They are materials that donot allow electric current to flow through. ()
- 16 The type of electric circuits that are found in houses and help in operating many devices at the same time. ()
- 17 The type of electric circuits in which all components must be connected in one loop ()

Question 05

Give reason for each of the following

- 1 Cobalt and nickel are considered as magnetic materials.
.....
- 2 Most electric wires are covered with rubber or plastic.
.....
- 3 The electric circuit is considered as a system.
.....



- 4 Electric wires are made of copper.
.....
- 5 The electric circuit must contain a battery.
.....
- 6 Some electric circuits contain resistors.
.....
- 7 When a ball is thrown into the air, it will stop moving upward and then falls down.
.....
- 8 Electric wires are wrapped in plastic.
.....
- 9 Electric generators have great importance in our life.
.....
- 10 In the parallel circuit, we can turn off or remove one light bulb while the other light bulb will remain lit.
.....
- 11 All metals are considered as electric conductors.
.....
- 12 When a magnet is moved rapidly back and forth inside a coil, the needle of the galvanometer connected to the coil moves rapidly.
.....

Question 06

What happens if ?

- 1 Electric circuits in houses are connected in series.
.....
- 2 The electric circuit doesn't contain switch.
.....
- 3 The force of gravity if the mass of an object increases.
.....



- 4 A large amount of electricity passes through an electric circuit has an electric device, and this circuit doesnot contain a resistor.
.....
- 8 A magnet is approached close to some iron nails mixed with small pieces of paper.
.....
- 9 Large magnets spin at a high speed, around coiled wires.
.....
- 10 The force of gravity if the distance between the object and Earth's center increases.
.....
- 11 Rubber is used in making electric wires instead of copper.
.....
- 12 The magnetic objects are placed at a distance and do not locate at the magnetic field of this magnet.
.....
- 13 The switch is closed in the electric circuit.
.....
- 14 A person touches non insulated electric wire through which an electric current pass.
.....
- 15 A magnet is moved rapidly inside a coil of wire in a circuit containing galvanometer.
.....

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم



بنك اسئلة

الصف
السادس
الابتدائي
٢٠٢٤

التميز

أ/ محمود سعيد



Model Answers

science

November Revision

By

MRS . Amira Ahmed



Cartoon Science

6

الصف
السادس



El.Motamyez.School

يمكنكم الحصول على المذكرات والاختبارات من خلال مسح رمز ال QR Code
أو من خلال صفحة "التميز - أ/ محمود سعيد".
يرجى مراعاة حقوق صاحب المحتوى عند النشر.



November Questions Bank



Question 01

Choose the correct answers

CONCEPT 2

- 1 Absorption of nutrients inside the body starts in the organ.
 (a) large intestine (b) heart (c) small intestine (d) stomach
- 2 Engineers design special devices to work instead of organ which filter the blood from waste materials.
 (a) stomach (b) heart (c) kidney (d) lung
- 3 The system which helps the digestive system in transporting the nutrients to all different body organs is the system.
 (a) nervous (b) respiratory (c) circulatory (d) excretory
- 4 The systems of the human body get their needed energy from
 (a) Sun (b) food (c) water (d) carbon dioxide.
- 5 Urination process happens by the help of system.
 (a) digestive (b) urinary (c) respiratory (d) skeletal
- 6 The organ which belongs to the digestive system and secretes fluids contain an acid and some enzymes is the
 (a) esophagus (b) stomach (c) small intestine (d) mouth
- 7 All the following are from the nutrients that the food contains, except
 (a) carbohydrates (b) oxygen (c) fats (d) proteins
- 8 The two kidneys play an important role in the filtration of inside your body.
 (a) water (b) enzyme (c) acid (d) blood
- 9 The system which converts the complex food into simpler substances that the body can use for energy and growth is the system.
 (a) respiratory (b) circulatory (c) digestive (d) nervous



- 10 The process of expelling urine from the body is called process.
 (a) urination (b) respiration (c) sensation (d) digestion
- 11 You can use your muscles to help the teeth chew the food
 (a) eye (b) cardiac (c) jaw (d) hand
- 12 blood carries formed inside small intestine to all the body organs.
 (a) feces (b) undigested food (c) bones (d) nutrients
- 13 All the following are from the waste materials which are produced by your body, except
 (a) urine (b) oxygen gas (c) carbon dioxide (d) sweat
- 14 Urea is formed due to the breaking down of inside the body cells.
 (a) carbohydrates (b) proteins (c) fats (d) acids
- 15 The tube which transports the urine from the kidney to the bladder is the
 (a) vein (b) urethra (c) ureter (d) artery
- 16 The body gets rid of waste materials by process.
 (a) digestion (b) excretion (c) respiration (d) sensation
- 17 The organ which is responsible for secreting sweat is the
 (a) stomach (b) esophagus (c) skin (d) kidney
- 18 The large intestine absorbs from the undigested food
 (a) nutrients (b) water (c) blood (d) urea
- 19 The blood which carries the waste materials, enters each kidney through a large
 (a) vein (b) artery (c) blood capillary (d) ureter
- 20 The feces store in until it leaves the body.
 (a) Small intestine (b) Large intestine (c) esophagus (d) anus



Question 02

put (true) or (false)

- 1 People whose kidneys are not working properly must use other devices to filter the blood from waste. ☒
- 2 The feces leave the body through a bony opening known as anus. ☐
- 3 Proteins can pass through nephrons during filtration of blood in the two kidneys. ☐
- 4 Circulatory system transports the digested food to different body organs ☒
- 5 Systems get their needed energy from the food we eat ☒
- 6 When your body needs energy, liver and muscles convert glycogen into glucose again. ☒
- 7 All nutrients that are absorbed from small intestine are stored as fats inside the body. ☐
- 8 Studying a kidney model can save time, money and effort. ☒
- 9 The two kidneys remove waste materials from the blood. ☒
- 10 Glycogen is converted into glucose and stored in liver and muscles. ☐
- 11 Saliva is a liquid which is secreted by endocrine system inside your mouth. ☒
- 12 The digested food enters the colon as a soupy mixture. ☐
- 13 The two kidneys remove waste materials from undigested food which come out in the form of urine. ☐
- 14 Nephron helps in the filtration of blood from urea. ☒
- 15 Colon absorbs most of water from the undigested food that leaves the body ☒
- 16 If your body doesn't get rid of waste, you will be healthy. ☐
- 17 Digestion begins when the food enters esophagus ☐
- 18 Kidneys are considered as a filtering system for the blood ☒
- 19 The main waste product which is expelled by respiratory system is the urea. ☐
- 20 Urine is expelled outside the body through urethra. ☒



Question 04

write the scientific term for each of the following

- ① The system which converts the complex food into simpler substances that the body can use to get energy. **Digestive system**
- ② The last part of large intestine that stores the feces until it leaves the body. **rectum**
- ③ The organ which helps in excretion of sweat through the pores that are found in it. **skin**
- ④ The process of breaking down the complex food into simpler substances. **Digestion process**
- ⑤ It is a microscopic filter that is found in the two kidneys and filters the blood from waste materials. **nephron**
- ⑥ A substance that is stored in liver and muscles, then converted into glucose when your body needs energy. **glycogen**
- ⑦ A liquid in your mouth contains an enzyme which helps in digestion process. **saliva**
- ⑧ The system that is responsible for excretion of carbon dioxide gas. **Respiratory system**
- ⑨ The organ which absorbs most of water from the undigested food. **large intestine**
- ⑩ It is a system that is responsible for storing and getting rid of waste materials produced from cells **Excretory system**
- ⑪ A substance which is formed due to the breakdown of proteins inside the body cells. **urea**
- ⑫ It is the process of removing the waste products resulting from burning food inside the body cells through their membranes **Excretion process**
- ⑬ It is the process of expelling urine from the body. **Urination process**
- ⑭ An organ in which absorption of nutrients starts. **Small intestine**



Question 05

Give reason for each of the following

- 1 The liver and muscles convert the stored glycogen into glucose sugar.
To get energy
- 2 The body needs to convert complex food into simpler substance.
To get energy and grow
- 3 Importance of excretion process to your body.
It collects wastes and remove them out of body to keep the body healthy
- 4 Walls of small intestine contain blood vessels.
To carry digested food to all body parts
- 5 The two kidneys contain many nephrons.
To filter blood from harmful substances
- 6 Undigested food becomes solid wastes inside the large intestine.
Because large intestine absorbs water from undigested food
- 7 Saliva plays an important role in digestion of food inside the mouth.
Because saliva soften the food and starts the chemical breakdown of food

Question 06

What happens if ?

- 1 The blood that carries waste materials passes through nephrons
Nephrons filter the blood from harmful substances
- 2 Saliva is not secreted during chewing the food inside your mouth.
Food cannot be soften and food cannot break down chemically
The blood does not pass through the two kidneys during its circulation inside the human body.
- 3 **The blood will not be filtered from the waste materials and the body will get sick**
- 4 Your body doesn't get rid of waste.
The body will get sick



Question 01

Choose the correct answers

CONCEPT 3

All the following materials are called magnetic materials, except

- 1 ☐ a iron ☐ b plastic ☐ c nickel ☐ d steel

Mechanical energy is converted into energy in the generators.

- 2 ☐ a light ☐ b sound ☐ c electric ☐ d thermal

Electricity can flow through

- 3 ☐ a electric conductors ☐ b electric insulators ☐ c wooden bar ☐ d an eraser

All the following materials are electric insulators, except

- 4 ☐ a rubber ☐ b plastic ☐ c wood ☐ d steel

Magnets can be made of

- 5 ☐ a copper ☐ b glass ☐ c iron ☐ d plastic

..... are used to stop the flow of electricity.

- 6 ☐ a Resistors ☐ b Electric conductors ☐ c Electric insulators ☐ d Galvanometers

The area around the magnet in which its force appears is known as.....

- 7 ☐ a magnetic field ☐ b magnetism ☐ c electric current ☐ d gravity

The flow of electric charges along a closed path causes

- 8 ☐ a electric circuit ☐ b light energy ☐ c electric current ☐ d sound energy

In the circuit, all components are connected in one loop.

- 9 ☐ a open parallel ☐ b closed parallel ☐ c open series ☐ d closed series

..... is a magnetic material that is attracted to the magnet.

- 10 ☐ a Copper ☐ b Iron ☐ c Gold ☐ d Wood

Magnet affects certain objects like.....when they locate in its magnetic field

- 11 ☐ a wood and steel ☐ b nickel and plastic ☐ c iron and copper ☐ d cobalt and steel

In a, the electric current can flow through different branches.

- 12 ☐ a series circuit ☐ b parallel circuit ☐ c resistor ☐ d microwave



- 13 are used to spin the magnet in the generator to produce electricity
 (a) Water and winds (b) Light and sound (c) Electricity and sound (d) Sound and heat
- 14 is used to slow the flow of an electric current in the electric circuit.
 (a) battery (b) switch (c) resistor (d) lamp
- The electric wires are covered with
 15 (a) copper (b) plastic (c) iron (d) glass
- Scientists use a to detect the flow of small electric currents.
 16 (a) generator (b) galvanometer (c) battery (d) switch
- The source of electricity in any electric circuit may be
 17 (a) metal wire (b) a switch (c) a battery (d) an electric lamp
- All the following materials are considered as electric conductors, except
 18 (a) copper (b) water (c) rubber (d) Iron
- The electric wires can be made of or
 19 (a) wood - plastic. (b) Rubber-wood (c) aluminum - copper (d) plastic - rubber
- The electric circuit contains which is responsible for opening and closing the circuit.
 20 (a) a battery (b) a switch (c) a lamp (d) a heater
- The internal switch on a can be used in the refrigerator to adjust its temperature.
 21 (a) battery (b) thermostat (c) light bulb (d) wall socket
- is a material that cannot allow electric current to flow through.
 22 (a) Iron (b) Copper (c) Plastic (d) Cobalt

Question 02

put (true) or (false)

- 1 The electric devices in houses are connected in series circuits. ☒
- 2 Cobalt is an example of magnetic materials. ☒
- 3 Earth attracts all objects on its surface due to its great mass ☒



- 4 Copper, rubber and iron are electric conductors. ☐
- 5 Electricity and magnetism can work together. ☒
- 6 In the series circuits, the electric current can flow in different branches. ☐
- 7 Electric wires are covered with plastic to protect us from electric shock ☒
- 8 The magnet has a force called magnetism ☒
- 9 All metals are electric insulators. ☐
- 10 Electricity can be produced from magnetism. ☒
- 11 Electric current can flow through all materials ☐
- 12 A piece of aluminum foil and a plastic spoon will be attracted to the magnet. ☐
- 13 The thermostat in a refrigerator contains an automatic switch ☒
- 14 Electric insulators only allow electric current to pass through them. ☐
- 15 Wood and plastic are electric insulators. ☒
- 16 The magnetic objects are attracted to the magnet at any distance from the magnet. ☐
- 17 Magnetism is an attraction or a repulsion force, while gravity is a repulsion force only ☐
- 18 All materials can be attracted to the magnet. ☐
- 19 Magnets attract the non-magnetic materials such as iron, nickel and steel. ☐
- 20 Resistors are used to slow the flow of electrons through an electric circuit. ☒
- 21 All magnets can be made of some materials like iron and glass ☐
- 22 All materials allow electric current to flow through them ☐
- 23 Towns and cities are parts of an electric circuit ☒
- 24 Copper, aluminum and rubber are electric conductors. ☐
- 25 There is no relation between magnetism and electricity. ☐



Question 03

complete the following sentences using words between brackets

- 1 Handles of screwdrivers are made of plastic as it is an electric **insulator**
- 2 The magnetic materials will be attracted to the magnet when they are located at **magnetic field** of the magnet.
- 3 By increasing the distance between objects, the **gravitational** force between them **decreases**
- 4 The electric current causes **electric shock** in the human body as it contains **water** that is good conductor of electricity.
- 5 Gravity attracts any object that has **mass**
- 6 Rubber is an electric **insulator**, while copper is an electric **conductor**
- 7 Electric wire coated with **plastic** or **rubber** to protect us from **electric shock**
- 8 Electric wires are made of copper which is an electric **conductor** but they are wrapped in **plastic** which is an electric insulator.
- 9 Copper and **plastic** will not attract to the magnet as they are **nonmagnetic** materials.
- 10 In the **series** circuit there is only one path that the electric current can flow through.
- 11 The generator consists of large **magnets** and **coiled wires**
- 12 Magnets attract some metals, such as **iron**, **nickel** and **cobalt**
- 13 Electric circuits in houses are connected in **parallel** way.
- 14 All metals like **copper** and **aluminum** are called electric **conductors**
- 15 Electric wires are coated by **plastic** as it is an electric insulator.
- 16 Materials are classified according to their ability to be attracted to the magnet into **magnetic** materials and **non-magnetic** materials.
- 17 The electric current can transmit in a path called **electric circuit**
- 18 A moving magnet inside a coiled wire can generate **electric current**
- 19 The tool that opens and close the circuit is called **switch**
- 20 Magnetism is an attraction or **repulsion** force, while gravity is **attraction** force only



Question 04

write the scientific term for each of the following

- 1 The area around the magnet in which its magnetic force appears. **Magnetic field**
- 2 The materials that are attracted to the magnet. **Magnetic material**
- 3 The materials that are not attracted to the magnet. **Non-magnetic materials**
- 4 The force that allows the magnet to attract some materials without making direct contact. **Magnetism**
- 5 One of the components of an electric circuit that is used to limit the flow of electricity through the circuit. **resistor**
- 6 It is used to adjust the temperature inside some devices such as the refrigerator **thermostat**
- 7 The device which changes mechanical energy into electrical energy. **Generator**
- 8 A device can be used to detect the flow of small electric currents. **galvanometer**
- 9 The force of Earth which attracts all objects on its surface to its center. **Gravity**
- 10 A form of energy produced from generators and turbines. **electricity**
- 11 A tool in the circuit which is used to open and close the circuit. **switch**
- 12 The flow of electrons through an electric wire. **Electric current**
- 13 A closed loop through which electric current can flow. **Electric circuit**
- 14 The materials that the electric charges can flow through. **electric conductors**
- 15 They are materials that donot allow electric current to flow through. **electric insulators**
- 16 The type of electric circuits that are found in houses and help in operating many devices at the same time. **Parallel circuits**
- 17 The type of electric circuits in which all components must be connected in one loop **Series circuits**



Question 05

Give reason for each of the following

- 1 Cobalt and nickel are considered as magnetic materials.
Because they are attracted to the magnet
- Most electric wires are covered with rubber or plastic.
2 Because rubber and plastic are bad conductors of electricity to protect people from electric shock
- The electric circuit is considered as a system.
3 Because electric circuit is a path for electricity that consists of many components that work together as one system
- Electric wires are made of copper.
4 Because copper is an electric conductor that allow electric current to flow through
- The electric circuit must contain a battery.
5 Because the battery is the source of electricity in the electric circuit
- Some electric circuits contain resistors.
6 Because resistors are used to slow the flow of electrons through an electric circuit to avoid the damage of its components
- When a ball is thrown into the air, it will stop moving upward and then falls down.
7 Due to the gravity force of Earth
- Electric wires are wrapped in plastic.
8 Because plastic is electric insulator doesn't allow electricity to pass through
- Electric generators have great importance in our life.
9 Because they are used in lighting houses and operating electrical devices
- In the parallel circuit, we can turn off or remove one light bulb while the other light bulb will remain lit.
10 Because in parallel circuit the electric current can flow along different branches



11

All metals are considered as electric conductors.

Because metals allow electric current to flow through them

12

When a magnet is moved rapidly back and forth inside a coil, the needle of the galvanometer connected to the coil moves rapidly.

Because of electric current

Question 06

What happens if ?

1

Electric circuits in houses are connected in series.

If one light bulb damaged or disconnected the others will not work

2

The electric circuit doesn't contain switch.

We cannot open and close the circuit

3

The force of gravity if the mass of an object increases.

The force of gravity will increase

4

A large amount of electricity passes through an electric circuit has an electric device, and this circuit doesnot contain a resistor.

The component of electric circuit will be damaged

8

A magnet is approached close to some iron nails mixed with small pieces of paper.

The magnet will attract the iron nails only

9

Large magnets spin at a high speed, around coiled wires.

Electric charges create on coiled wires (electricity)

10

The force of gravity if the distance between the object and Earth's center increases.

The force of gravity will decrease

11

Rubber is used in making electric wires instead of copper.

Electric current will not pass through the wire



12

The magnetic objects are placed at a distance and do not locate at the magnetic field of this magnet.

They will not be attracted to the magnet

13

The switch is closed in the electric circuit.

The electric current will pass through the closed circuit

14

A person touches non insulated electric wire through which an electric current pass.

Electric shock will happen

15

A magnet is moved rapidly inside a coil of wire in a circuit containing galvanometer.

The electric current will increase and the needle of galvanometer will move rapidly

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم

