



GC INTERNATIONAL SCIENCE OLYMPIAD - LEVEL TWO SAMPLE PAPER

Question 1

What on Earth helps to keep temperatures stable?

- A. air B. wind C. rocks D. oceans

Key: D

Question 2

We need this in order to live on Earth.

- A. Greenhouse Effect B. Asteroids C. Meteors D. None of these

Key: A

Question 3

What is the diaphragm's main function?

- A. pump blood into the lungs
B. pump carbon dioxide out of the lungs and pull oxygen into the lungs
C. pump oxygen out of the lungs and pull carbon dioxide into the lungs
D. All of these

Key: B

Question 4

What happens to molecules at absolute zero?

- A. they do not move B. they move very slowly
C. they move quickly D. They move slowly

Key: A

Question 5

When germs do find a way into the body, what helps find and kill them?

- A. White blood cells B. Blood
C. Red blood cells D. All of these

Key: A

Question 6

Climate takes hundreds, thousands, even millions of years to change.

True or False?

- A True B. False

Key: A

Question 7

Some metallic materials are magnetic and some are not. Which of these metallic materials is magnetic?

- A. aluminum B. steel C. tin D. copper

Key: B

Question 8

Higher the unbalanced force acting on the object, the _____ the acceleration of the object.

- A. greater B. smaller

Key: A

Question 9

Which property of light best explains the way a straw appears to “break” when placed in a glass of water and viewed from the side?

- A. Refraction B. Reflection C. Absorption D. Water waves

Key: A

Question 10

Which of these is caused because of the natural forces like wind, water and Ice?

- A. Erosion B. Earthquakes C. Tornados D. Volcanoes

Key: A

Question 11

Which type of rock would most likely be formed at the bottom of a river?

- A. Sedimentary B. Igneous C. Metamorphic D. Mineral

Key: A

Question 12

Which phase of the moon shows more than half the moon lit up?

- A. Gibbous B. Crescent C. Quarter D. New

Key: A

Question 13

John had a project at school where he had to create an animal that would survive really well in the tundra. Which of these adaptations would not be beneficial in the tundra?

- A. Brightly colored feathers to help beautify the tundra.
B. Thick layer of fat to help keep them warm during the cold months.
C. Slowed metabolism during hibernation in order to conserve energy during months with very little food.
D. White colored fur to help camouflage with the snow to hide from predators.

Key: A

Question 14

What is an effective and healthy way for a person to lose weight?

- A. Burn more calories than they take in B. Eat more calories
C. Eat nothing D. Only drink liquid

Key: A

Question 15

Which of the following is false?

- A. The Earth's orbit of the Sun causes seasons
- B. The Earth's rotation causes day and night
- C. The Moon's orbit causes its shape to change
- D. None of these

Key: C

Question 16

If you are in outer space, and you push a bowling ball away from your chest as hard as you can, what will happen to you?

- A. Neither you or the bowling ball would move
- B. You and the bowling ball will fly away in opposite directions
- C. The bowling ball will fly away, and you will stay still
- D. The bowling ball will fly away, and you will fly in the same direction.

Key: B

Question 17

If you hit a golf ball, a cotton ball, and a baseball with an equal amount of force, which will accelerate the most?

- A. All of them will be the same
- B. The Golf ball
- C. The Baseball
- D. The Cotton Ball

Key: D

Question 18

When you lick a flag pole when it is freezing outside, which best describes what happens to the energy between your tongue and the flagpole?

- A. Thermal energy leaves your tongue and enters the flagpole
- B. Thermal Energy leaves the flagpole and enters your tongue
- C. Coldness enters your tongue from the flagpole
- D. None of these

Key: A

Question 19

Which part of the flower contains the pollen?

- A. Anther B. Stigma C. Leaves D. Stem

Key: A

Question 20

Lina and Robert are comparing how far their toy cars will roll down slopes made of different materials. Which surface should allow the car to go the furthest?

- A. Concrete B. Grass C. Gravel D. Sand

Key: A

Question 21

If you place a checker on your elbow and try to catch it with that same hand, what force do you need to beat in order to catch it before it hits the ground?

- A. Gravity B. Inertia C. Friction D. Mass

Key: A

Question 22

I have spilled a glass of water on the floor, what happens to the spilled water?

- A. Change its shape but not its size B. Change its shape and size
C. Not change its shape or size D. Not change its shape but change its size

Key: A

Question 23

Why do we wear gloves in the winter when it gets cold?

- A. To prevent the heat in our hands from escaping
B. To prevent the cold air from going into our hands
C. To prevent the heat in the air getting into our hands
D. To prevent the cold from leaving our hands

Key: A

Question 24

Which of the following organs is also a muscle?

- A. The Lungs B. The Brain C. The Heart D. The Kidney

Key: C

Question 25

Which landform is best described as a low area of land between two large hills or mountains?

- A. Sand Dune B. Island C. Plateau D. Valley

Key: D

Question 26

Sound waves travel down the ear canal before hitting which of these?

- A. The pinna B. The inner ear C. The ear lobes D. The eardrum

Key: D

Question 27

Freddie has built a toy car. He wants to make the car move on its own. He adds a battery, wires, a switch and a ____?

- A. Bulb B. Motor C. Seat D. Radio

Key: B

Question 28

Photosynthesis is an example of a _____?

- A. physical change B. chemical change

Key: B

Question 29

The diagram below shows changes happening to water. What changes did the water undergo?



- A. melting and then evaporation
- B. freezing and then evaporation
- C. condensation and then melting
- D. evaporation and then condensation

Key: D

Question 30

Which of the following is NOT an example of a physical change?

- A. crumpled paper
- B. pencil sharpening
- C. shrunken clothing
- D. sour milk

Key: D

Question 31

Mr. Sinyard is jumping up in the air. What happens at the highest point of his jump?

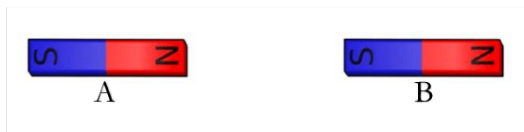
- A. Gravity becomes weaker.
- B. The force of his jump pulls him back down.
- C. Gravity starts to pull him back down.
- D. The force of his jump becomes greater than gravity.

Key: C

Question 32

Two magnets are shown in the picture.

What happens to magnet "B" if it is free to move?



- A. The force of gravity will pull it to the left.
- B. The magnetic force will pull it to the left.
- C. The force of gravity will push it to the right.
- D. The magnetic force will push it to the right.

Key: B

Question 33

A group of students were asked to improve the design of a car.

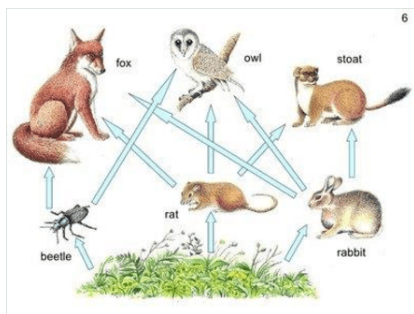
What is the first thing they should do ?

- A. Adjust the wheels of the car and determine if it works better.
- B. Design a solution to make the wheels work better.
- C. Identify the problem that needs to be improved.
- D. Ask what materials they could use to fix the problem.

Key: C

Question 34

What will happen to the rabbit population if the owl population becomes bigger?



- A. The rabbit population will become smaller
- B. The rabbit population will become bigger
- C. The rabbit population will stay the same
- D. None of these

Key: A

Question 35

Which of the following mineral is used in making chalk?

- A. Fluorine B. Mica C. Gypsum D. Feldspar

Key: C

Question 36

Soil erosion can be prevented by following which of these?

- A. Terrace farming B. Afforestation C. Building bunds D. All the above

Key: D

Question 37

Process of developing immunity to fight against diseases after inoculation of the germs is called?

- A. sterilisation B. vaccination C. Pasteurization D. All of these

Key: B

Question 38

Which of the following is / are component(s) of balanced diet?

- A. Carbohydrate B. Protein C. Fat D. All of these

Key: D

Question 39

Anaemia can be corrected by_____?

- A. Taking calcium supplements B. Taking iron supplements
C. Taking vitamin E capsule D. Taking vitamin B capsule

Key: B

Question 40

Which is used to broadcast sound and pictures?

- A. newspaper B. radio C. television D. fax

Key: C

Question 41

Which kind of particle pattern is present in Ice?

- A. Flexible B. Rigid C. Loose D. none

Key: B

Question 42

Which one of the following birds has long legs and thin toes that prevent them from sinking in mud?

- A. Stork bird B. Woodpecker bird C. Tailor bird D. Kite bird

Key: A

Question 43

Which type of beak is helpful for birds to take out insects that lives under the bark of the trees?

- A. Flat B. Horny C. Chisel shaped D. Straw like

Key: C

Question 44

A bulbul builds its nest in_____?

- A. hedges and bushes B. barks of the trees
C. holes in the trunks of trees D. under the ground

Key: A

Question 45

The electric cables appear to hang loosely from the poles in summer. Identify the reason.

- A. Freezing of electric cables.
- B. Evaporation of electric cables.
- C. Expansion of electric cables.
- D. Contraction of electric cables.

Key: C

Question 46

Which one among the following is not an amphibian?

- A. Frog
- B. Salamander
- C. Tortoise
- D. Whale

Key: D

Question 47

Why do plants have flowers?

- A. They look nice
- B. They catch the rain
- C. They brighten up the garden
- D. They make seeds to make more plants

Key: D

Question 48

Plants depend on insects. Which of these is the reason?

- A. grow new leaves
- B. strengthen roots
- C. make more food
- D. produce offspring

Key: D

Question 49

What is an example of a fish interacting with a non-living thing?

- A. The fish eating a smaller fish.
- B. The fish swimming in between a plant's leaves.
- C. The fish hiding under a rock.
- D. The fish laying it's eggs on plant leaves.

Key: C

Question 50

Which of the following cannot spread diseases?

- A. housefly
- B. cockroach
- C. rat
- D. grasshopper

Key: D

Question 51

Alex is building a car to race down a ramp. The car weighs 100 grams. Which could Alex do to increase the speed of the car?

- A. increase the mass of the car
- B. decrease the mass of the car
- C. increase the friction on the ramp
- D. change the color of the car

Key: B

Question 52

How does a bat find its food?

- A. Through the smell of the food.
- B. Through its eyes.
- C. With the help of sound waves.
- D. All the above

Key: C

Question 53

Which is an abiotic component of the environment?

- A. Plants
- B. Water
- C. Animals
- D. Humans

Key: B

Question 54

Which fuel among the following causes less pollution?

- A. Petrol B. Diesel C. Natural Gas D. Kerosene

Key: C

Question 55

Which holds the layer of air around the earth?

- A. Friction B. Electricity C. Gravity D. Ultraviolet rays

Key: C

Question 56

Which of the following gases is/are released by grass-eating animals as their waste product ?

- A. Ozone B. Methane C. Chlorofluorocarbon D. All the above

Key: B

Question 57

Which among these is not a decomposer?

- A. mushroom B. leaves C. worm D. None of these

Key: B

Question 58

Identify the bird shown in the picture.



- A. Eagle B. Ostrich C. Stork D. Hawk

Key: D

Question 59

Which planet is known as the Morning Star or the Evening Star?

- A. Venus B. Mercury C. Uranus D. Saturn

Key: A

Question 60

Identify the animal shown in the picture.



- A. Mole B. Sloth C. Ferret D. Boar

Key: C