

**A**

- 1 "Living things adopt to their environment through \_\_\_\_\_."
- Which of the choices below best fit the spaces above?
- A) temperature changes
  - B) sun's energy
  - C) natural selection
  - D) break down
  - E) microscopic units

- 2 "\_\_\_\_\_ is the ability to respond to a stimulus."
- Which of the choices below best fit the space above?
- A) Sensitivity
  - B) Movement
  - C) Excretion
  - D) Growth
  - E) Reproduction

- 3 Which is not an example of healthy living?
- A) Watching television
  - B) Staying away from cigarette smoke
  - C) Eating wisely
  - D) Consumption plenty of water
  - E) Cycling

**A**

- 4 Which of the following is WRONG?
- A) Cell is the place for chemical reactions.
  - B) Growth results in the continued existence of the species.
  - C) Cell function is to keep the organism alive.
  - D) Fungi can not under go photosynthesis.
  - E) Chemical reaction occurs as the result of respiration.
- 5 Which of the following is NOT property of solids?
- A) Keeps its shape when squashed.
  - B) It can melt when heated.
  - C) Can not be poured.
  - D) Particles are closely arranged.
  - E) Take the volume of the container.
- 6 Which of the following is NOT essential for sustaining life on earth?
- A) Nourishment
  - B) Water
  - C) Reproduction
  - D) Recreation
  - E) Oxygen
- 7 Which of the following animals hibernate?
- A) Bear
  - B) Frog
  - C) Rooster
  - D) Kangaroo
  - E) Deer

A

- 8 Which of the following is **WRONG** for reproductive cloning?
- A) The cloned organism has the same nuclear DNA as the donor.
  - B) Dolly was the world's first cloned human.
  - C) It is hoped that reproductive cloning can be used to generate tissues and organs for trasplants.
  - D) Reproductive cloning produces a genetic twin of another organism.
  - E) In reproductive cloning the genetic material from the donor cell is reprogrammed to generate a new organism.
- 9 Which of the following is **NOT** a nutrient?
- A) Fat
  - B) Vitamin
  - C) Nicotine
  - D) Carbohydrate
  - E) Protein
- 10 Which of the following is **NOT** a property of nonmetals?
- A) They are insulators.
  - B) They are ductile.
  - C) They have low density.
  - D) They are brittle.
  - E) They are poor conductors of heat.

A

- 11 Which of the following we consume **raw**?
- A) Chicken
  - B) Bread
  - C) Carrots
  - D) Eggs
  - E) Mushrooms
- 12 Which of the following is **NOT** a biological process?
- A) Digestion
  - B) Gravity
  - C) Reproduction
  - D) Pigmentation
  - E) Growth
- 13 Which of the following is **NOT** an example of electrical use in the home?
- A) Ironing your clothes.
  - B) Using the air conditioner to cool the room.
  - C) Writing a letter to a friend.
  - D) Watching television.
  - E) Using your computer to do homework.
- 14 Genetics is the study of ...  
Which of the following correctly completes the sentence above?
- A) heredity
  - B) genotype
  - C) dominant
  - D) twins
  - E) pure bred

A

15 Which of the following we peel before consumption?

- A) Beef
- B) Orange
- C) Milk
- D) Ice cream
- E) Strawberry

16 Which is **WRONG** about Aerobic respiration?

- A) Releases energy.
- B) Requires lactic acid.
- C) Requires oxygen.
- D) Requires glucose from digested food.
- E) Produces carbon dioxide and water.

17 Which of the following is **NOT** the property of amphibians?

- A) They live on land.
- B) Their offspring feed on milk.
- C) They lay eggs in water.
- D) They live in water.
- E) They can hop.

18 Which of the following is necessary for photosynthesis?

- A) Carbon dioxide
- B) Galactose
- C) Lactose
- D) Glucose
- E) Oxygen

A

19 "Fish-Bird-Amphibian-Reptile-Mammal"  
Which of the following examples match with the above order?

- A) Trout-Toad-Snake-Dolphin-Falcon
- B) Dolphin-Snake-Falcon-Toad-Trout
- C) Toad-Falcon-Trout-Dolphin-Snake
- D) Dolphin-Falcon-Snake-Trout-Toad
- E) Trout-Falcon-Toad-Snake-Dolphin

20 Which of the following is distinct from the others?

- A) Leech
- B) Sparrow
- C) Shark
- D) Crocodile
- E) Frog

21 Which of the following is **NOT** used to to reduce the friction of a surface?

- A) Scratch the surface
- B) Lubricate the surface
- C) Flatten the surface
- D) Paint the surface
- E) Wet the surface

22 Which of the following is **WRONG** for different phases of pure water?

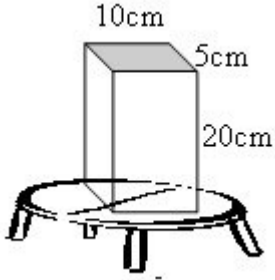
- A) Melting of ice is a physical change.
- B) Ice can not sublime.
- C) Adding salt to water increases its boiling point.
- D) When water is freezing its temperature remains constant.
- E) Ice condenses to become steam.

A

23 Which of the following is NOT a luminous source?

- A) Sun
- B) Stars
- C) Burning candle
- D) Moon
- E) Fluorescent light

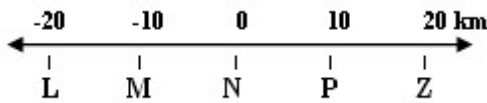
24



A rectangular block of wood weighing 4000N stands as shown on the left. Find the pressure it applies to the table.

- A) 400 N/cm<sup>2</sup>
- B) 80 N/cm<sup>2</sup>
- C) 20 N/cm<sup>2</sup>
- D) 40 N/cm<sup>2</sup>
- E) 200 N/cm<sup>2</sup>

25



A car travels from point M to point P and then to point L. Find the displacement of the car?

- A) +10 km.
- B) -50 km.
- C) -20 km.
- D) -10 km.
- E) +50 km.

A

26 I- Fossil Fuels

II- Geothermal Energy

III- Natural Gas

IV- Biomass

V- Wind

VI- Solar

Which of the following correctly provides the renewable sources of energy from the list above?

- A) IV, V and VI
- B) III, V and VI
- C) I, II and VI
- D) II, III, V and VI
- E) II, IV, V and VI

27 How many ice cubes each 1cm<sup>3</sup> need to melt to fill a 1L container?

- A) 1000
- B) 100
- C) 10
- D) 1
- E) 10000

28 I- Light is a form of energy.

II- Sound can travel in a vacuum.

III- Light travel faster than sound.

Which of the above statement(s) is/are correct?

- A) I, II and III
- B) Only III
- C) Only II
- D) Only I
- E) I and III

A

29 A rectangular block measuring 8cm by 5cm by 4cm and having mass of 1.2kg rests on a table. What is the least pressure the block could exert on the table?

- A) 0.6 N/cm<sup>2</sup>
- B) 0.075 N/cm<sup>2</sup>
- C) 0.06 N/cm<sup>2</sup>
- D) 0.3 N/cm<sup>2</sup>
- E) 1.6 N/cm<sup>2</sup>

30 Which of the following can NOT be considered as an example of a simple machine?

- A) Pulley system
- B) Movable pulley
- C) Fixed pulley
- D) Screwdriver
- E) Rope

31



Two metal plates joined together as in figure I. They are then placed in an oven and give figure II. Which of the following is WRONG?

- A) They have the same expansion coefficient.
- B) They can be used as a thermostat.
- C) Metal X and metal Y are different metals.
- D) Metal X and metal Y are at the same temperature.
- E) If figure I was cooled, metal Y would be larger than metal X.

A

32 Which of the following does NOT affect the pressure of a gas in a closed container?

- A) Atmospheric pressure
- B) Number of gas molecules
- C) Volume of the container
- D) Speed of the gas molecules
- E) Temperature

33 A 1L container is completely filled with water ( $d_w=1\text{g/ml}$ ) and 320g of another liquid with density 0.80g/ml. Find the volume of water in the container.

- A) 500 ml
- B) 320 ml
- C) 400 ml
- D) 600 ml
- E) 1000 ml

34



Which of the following is correct about the objects above?

- A) Y produces only light energy.
- B) They are all examples of simple machines.
- C) Z produces the most heat energy.
- D) X and Y convert electrical energy.
- E) X uses chemical energy.

A

35 Which of the following is **WRONG** about ionic bonds?

- A) In ionic bonds nonmetals gain electrons.
- B) Sodium chloride has ionic bonding.
- C) In ionic bonds metals lose electrons.
- D) In ionic bonds atoms share electrons.
- E) Ionic bonds occur between metal and nonmetal atoms.

36 Which of the following is not an alloy?

- A) Brass
- B) Bronze
- C) Platinum
- D) Solder
- E) Steel

37 Which of the following salts is **INSOLUBLE**?

- A) Sodium Nitrate
- B) Lead (II) Nitrate
- C) Calcium Chloride
- D) Potassium Chloride
- E) Magnesium carbonate

38 **Element Potassium**  
**mass number : 39**  
**atomic number : 19**

Which of the following is **WRONG**?

- A) It contains 19 protons.
- B) It contains 39 electrons.
- C) It can attain a charge of +1.
- D) It is neutral.
- E) It contains 20 neutrons.

A

39 Which of the following is **WRONG** about the halogens at room temperature?

- A) They are poisonous.
- B) Iodine is liquid.
- C) Chlorine is a pale green gas.
- D) They all have 7 valence electrons.
- E) Fluorine is the most reactive nonmetal.

40 Which is **NOT** always conserved during a chemical reaction?

- A) Mass
- B) Electrical charge
- C) Type of atoms
- D) Number of atoms
- E) Number of molecules

41 **The solubility of potassium chlorate at 70°C 30g. in 100ml. of water.**

Which of the following is **WRONG**?

- A) A saturated solution in 50ml of water contains 10g of potassium chlorate at 70°C.
- B) Dissolving 50g of potassium Chlorate in 200ml of water at 70°C produces an unsaturated solution.
- C) 45g of potassium chlorate can dissolve in 150ml. of water at 70°C.
- D) 35g of potassium chlorate can dissolve in 100ml of water only by heating the solution.
- E) Potassium chlorate is a soluble salt.

A

42 In order to separate a mixture of sand and table salt, which property of water should be used?

- A) Solubility
- B) Expansion
- C) Transparency
- D) Boiling Point
- E) Density

43 Which of the following can NOT be the distinguishing property of a gas?

- I- Density
- II- Expansion
- III- Volume
- IV- Solubility

- A) II and IV
- B) I and III
- C) I and II
- D) I and IV
- E) II and III

44 Element X has atomic number of 13. What is the formula of the oxide of X?

- A)  $XO_2$
- B)  $XO$
- C)  $X_2O$
- D)  $X_3O_2$
- E)  $X_3O$

A

45 Which of the following is a chemical change?

- A) Mixing sulphur powder with iron fillings
- B) Boiling an egg
- C) Dissolving sugar in tea
- D) Painting a metal surface
- E) Freezing water

46 Which of the following statements is FALSE?

- A) Oxygen can be produced by electrolysis of water.
- B) Potassium oxide is a basic oxide.
- C) Oxidation number of iron in  $Fe_2O_3$  is +2.
- D) Liquid oxygen can be used as a rocket fuel.
- E) Oxygen makes up around 21% of air by volume.

47

Metal	With cold Water	With dilute Acid
X	No Reaction	Slow Reaction
Y	Fast Reaction	Violent Reaction
Z	No Reaction	No Reaction

Which of the following arranges the three metals in order, starting with the most reactive?

- A) X - Y - Z
- B) Z - X - Y
- C) Y - X - Z
- D) Z - Y - X
- E) Y - Z - X

A

- 48 I. Yeast : budding  
II. Amoeba : binary fission  
III. Strawberry: runner  
IV. Potato : tuber  
V. Hydro : regeneration

The information above shows the type of reproduction carried out by some organisms which is incorrect?

- A) I  
B) III  
C) IV  
D) II  
E) V

- 49 Which of the following is a function of the medulla of the brain?

- A) Is concerned with memory  
B) Regulates breathing  
C) Is concerned with intelligence  
D) Controls balance  
E) All of the above

- 50 In which of the following locations are slightly movable joints found?

- A) Shoulder  
B) Hip  
C) Knee  
D) Elbow  
E) Neck

A

- 51 Which of the gases does not cause global warming?

- A) methane  
B) chloroflourocarbons  
C) hydroflourocarbons  
D) carbondioxide  
E) none of the above

- 52 10 Which is not true for near sightedness

- A) Is caused by large or elongated eyeballs  
B) Usually occurs when the eye lens cannot get thin enough  
C) can be corrected by using diverging lenses  
D) occurs because the image is formed in front of the retina  
E) is referred to as long sight

- 53 Ladybirds and snails feed on grass and they themselves are eaten by thrushes. Snails are also eaten by rabbits.

Using the food web described, choose the incorrect statement below.

- A) There are 2 herbivores in the food web  
B) Rabbits are carnivores  
C) Rabbits are secondary consumers  
D) Thrushes are tertiary consumers  
E) If the number of snails decreases, the number of rabbits would also decrease

A

A

54

recipient	James	Kate	Brian	Anne	Jessica
Blood type	O	A	B	B	AB

Using the table above, answer the following question.

If Ken has a blood type of A, who can he donate blood to?

- A) James, Kate and Jessica
- B) Kate and Jessica
- C) Only Kate
- D) James and Kate
- E) Only Jessica

55 All the organisms living in a habitat is called

.....

- A) community
- B) population
- C) species
- D) ecosystem
- E) nonliving factors

56 ..... carries urine to the bladder

- A) Urethra
- B) Kidney
- C) Ligament
- D) Ureter
- E) Urinary bladder

57 Which endocrine gland has an important role in digestion

- A) pancreas
- B) Pituitary gland
- C) thyroid gland
- D) adrenal gland
- E) skin

58 A man and woman both with normal colour vision have a colour blind son. Using this information choose the correct statement below.

- A) The man is homozygous.
- B) The woman is homozygous.
- C) The woman is a carrier for this disease.
- D) The man is a carrier for this disease.
- E) All of the above.

59 Choose the correct definition.

- A) Absorption in the digestive system involves mixing of food with blood.
- B) Aerobic respiration is the breakdown of glucose using oxygen to produce energy.
- C) Plants produce their own food in the presence of sunlight by photosynthesis.
- D) Mutations are random changes in the structure of DNA of an organism.
- E) All of the above.

**A**

**60 Choose the incorrect statement below.**

- A) Chloro flourocarbons cause thinning of the ozone layer.
- B) Sulphur dioxides and nitrogen oxides cause acid rain.
- C) Acid rain causes harm to buildings, soil, plants and people.
- D) Carbon dioxide causes global warming.
- E) Global warming causes increase in skin cancer.

**TEST BİTTİ**

**CEVAPLARINIZI KONTROL EDİNİZ**