Α Α Which is the main source of energy for most Which of the following does NOT result in the 1 4 extinction of an endangered species? plants? A) Sun A) Global warming B) Overexploitation B) Fertilizers C) Use of pesticides C) Water D) Soil D) Use of renewable energy sources © D) Use of re E) Photosynthesis 5 2 I.Installing solar heat panels in our homes **Bird-Mammal-Amphibian-Fish II.**Campaigning for mining in the local area Which of the following match the above order? **III.Encouraging the use of recycling bins** A) Sparrow - frog - whale - shark **IV.Planting threes at school** V.Volunteering to clean the beach B) Sparrow - whale - frog - shark C) Sparrow - shark - whale - frog Which of the above could be our way of D) Sparrow - whale - shark - frog conserving the environment? 17632 A) III and IV B) II and V C) I and III **6** Which of the following is NOT a vertebrate? D) Only I E) I, III, IV and V A) Frog B) Lion C) Fish 3 "Slimy bodies, live on land and in water, lay eggs D) Bird in water, swim walk or hop." E) Snail 17637 Which class of vertebrates have the above characteristics? A) Fish Which of the following has yet to be cloned? 7 B) Amphibians A) Human D) Mammals B) Pig E) Moses C) Mule D) Sheep E) Calf ß 1761

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17621	 I.Reduces the amount of waste for disposal II.Prevents useful material resources being wasted III.Requires an elaborate system of sorting and separation. IV.Reduces the consumption of raw materials. Which of the above is NOT benefit of recycling? A) I and III B) III and III C) I and II D) II and IV E) Only III 	11/630	 Which of the following is NOT one of the concerns of the conservationists? A) Generate profitable businesses B) Assist the endangered species C) Establish protected areas for wildlife D) Build awareness to the importance of a balanced habitat E) Encourage the reduction of human population growth
17612 6	 I.Coal usage releases large amounts of greenhouse gas into the atmosphere. II.Coal is a renewable energy source. III. Coal is no longer used as an energy source in the world. Which of the above is WRONG about coal? A) Only III B) Only I C) Only II D) I and II E) II an III 	17636	 Which of the following is NOT a chemical reaction? A) Digesting food B) Burning paper
17605	 What do the forensic scientists do? A) They witness crime B) They research living things C) They eat genes D) They investigate crime scenes E) They inherit chromosomes 	17447	C) Boiling an egg D) Peeling an orange E) Baking a cake

Α

 ¹⁴ I. Crude oil II. Coal III. Natural gas IV. Sun Which of the above is/are renewable source of energy? ⁶⁰ A) Only III B) I and II C) II an III D) III and IV E) Only IV 	17 $F_1=3N - F_2=4N - F_3=5N$ What is the maximum and minimum value of the three forces given above if they apply on the same point? A) 7 - 5 B) 12 - 6 F C) 8 - 4 D) 12 - 2 E) 12 - 0
 15 Which of the following is NOT the property of mammals? A) They can live on land B) They feed their young 	 18 I. J/s II. kW III. kWh Which of the above is/are the unit of energy? A) I and II B) Only II
 C) They lay eggs D) They can live in water E) They are all vertebrates 16 The half life of a certain radioactive particle is 2 	C) Only I D) Only III E) I and III
 A) 1/6 B) 1/16 C) 1/8 D) 1/4 E) 1/32 	 19 During an experiment a rod makes contact with a positively charged electroscope. It is observed that the leaf of the electroscope closes slightly. Which of the following is true for the charge of the rod. Contempositively charged Event Hard III Event And III Event And III Donly I Contempositively I Contempositively I Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III Found III

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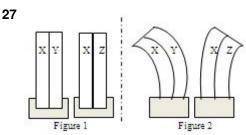
154	A piece of metal at 500 °C is placed into an insulated container containing 100g of water at 20 °C. If the final temperature of the system becomes 80 °C, find the mass of the metal piece. (cwater= 1 cal/g°C, cmetal= 2/7cal/g°C) A) 100 B) 35 C) 50 D) 75 E) 350	41176	 I. Mass of the stone II. Height of the bridge III. Gravitational acceleration A girl drops a stone from a bridge. Assuming no air resistance, which of the above must be known for the her to calculate the speed of the stone just as it hits the river below? A) Only II B) II and III C) I and III D) I and II E) Only I
41170	 Which of the following is NOT used during an experiment to investigate Brownian Motion? A) Microscope B) Smoke particles C) Steam D) Light source E) Air molecules A piece of steel has a volume of 12cm ³ and a mass of 96 grams. What is its density in kg/m ³ ?	41166	$F_{1}=3N - F_{2}=4N - F_{3}=5N$ A) $F_{1}=3N - F_{2}=4N - F_{3}=5N$ B) $F_{1}=3N - F_{2}=4N - F_{3}=5N$ C) $F_{1}=3N - F_{2}=4N - F_{3}=5N$ D) $F_{1}=3N - F_{2}=4N - F_{3}=5N$ E) $F_{1}=3N - F_{2}=4N - F_{3}=5N$
41130	A) 8x10 ⁻³ B) 8 C) 800 D) 8x10 ⁻³	25	 A pot removed from a stove gradually cools. I. Conduction II. Convection III. Radiation Which is the method of heat loss that causes the pot to cool? A) II and III B) I and III C) Only I D) I and III E) I, II and III

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Α

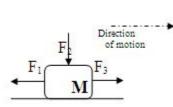
- 26 A motorcycle of mass 60kg is travelling at 40m/s. When the breaks is applied, it comes to rest in 30m. What is the average force exerted by the brakes?
 - A) 3200
- $(B)_{1600}$
- LL C) 5000 H D) 500
 - E) 200



Initial temperatures and lengths of metals X, Y
 and Z are the same as shown in figure 1. After
 heating to a certain temperature they appear as in
 figure 2.

What is the relationship between their coefficient of expansion?

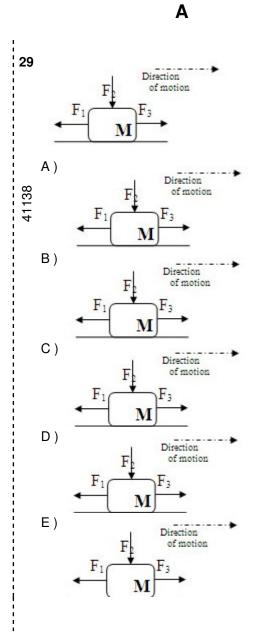
- A) $\alpha_y > \alpha_x > \alpha_z$
- B) $\alpha_x > \alpha_y > \alpha_z$
- C) $\alpha_x \! > \! \alpha_z \! > \! \alpha_y$
- D) $\alpha_z > \alpha_y > \alpha_x$
- E) $\alpha_x = \alpha_z > \alpha_y$

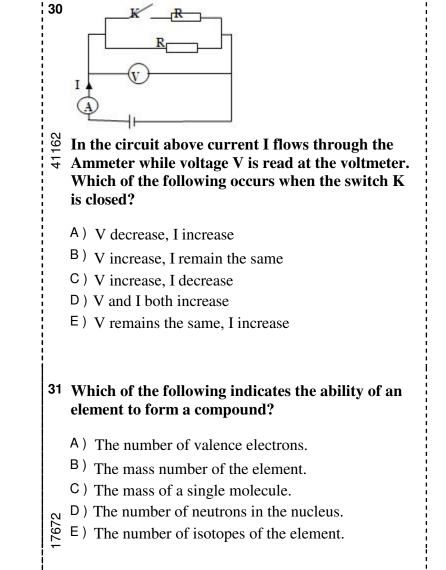


Considering the presence of friction on the diagram above which of the forces

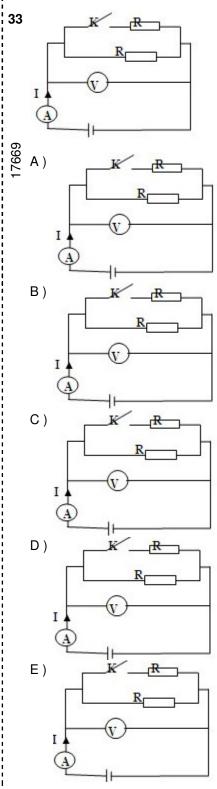
- 5 F₁ F₂ F₃ contribute to the stopping
- **5** of the object M?
 - A) Only F_1
 - B) Only F_3
 - C) $F_1 \,and \, F_2$
 - D) Only F_2
 - ${\sf E}$) $\,F_1,\,F_2$ and F_3

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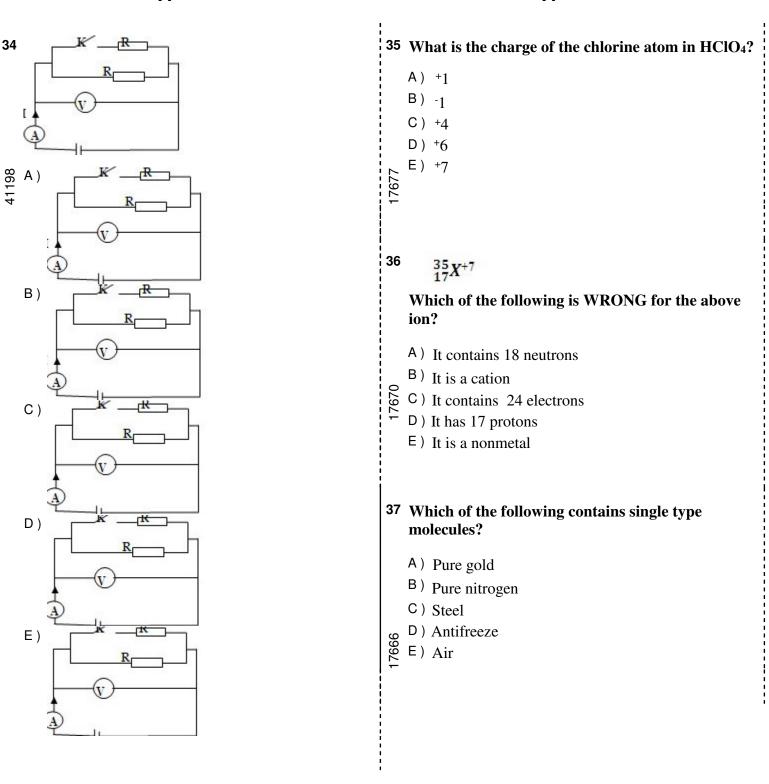


32 Which of the following changes when a glass of 33 water is frozen? **I.Volume II.Mass** I **III.Density IV.Chemical properties** 17669 17662 A) I and II A) ${\sf B}$) $\, {\rm II} \, and \, {\rm III}$ C) Only I D) I and III I E) II and IV B) I C) I



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Α



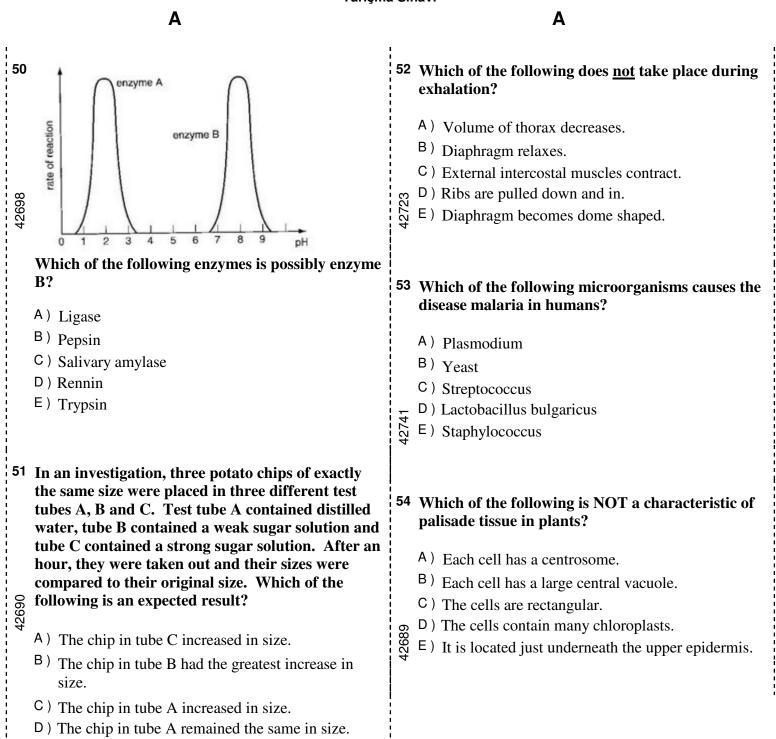
Α

A	A
 38 Which of the following is NOT the property of a gas? A) Increasing pressure decreases its volume. B) Expands when heated. C) Increasing pressure decreases its density. D) They can mix at any ratio. E) Their particles move randomly. 	41 $X_{(s)} \rightarrow 2Y_{2(g)} \rightarrow XY_{4(g)}$ 1 mol of X reacts <u>completely</u> with 140g of Y ₂ gas to produce 152g XY ₄ gas according to the chemical equation above. Find the mass number of element X. $\sum_{k=1}^{\infty} A$ 18 B 12
$\begin{array}{ccc} 39 & & 35\\ 17 & & 17 \\ A & & 35\\ 17 & & 17 \\ \end{array}$	C) 32 D) 6 E) 64
$ \begin{array}{c} \text{B} \\ \text{B} \\ \begin{array}{c} 35 \\ 177 \\ \text{C} \\ 177 \\ \text{B} \\ 177 \\ \text{D} \\ \text{D} \\ 177 \\ \text{E} \\ \end{array} \end{array} $	 ⁴² Substances X and Y; I. contain the same number of protons. II. have different boiling and freezing points. III. both form compounds that have the same properties. What sort of substances are X and Y?
40 ${}^{35}_{17}X^{+7}$ A) ${}^{35}_{17}X^{+7}$ B) ${}^{35}_{17}X^{+7}$ C) ${}^{35}_{17}X^{+7}$	 A) Compounds B) Allotrops C) Mixtures D) Ionic E) Isomers
D) $33X^{+7}$ $33X^{+7}$	 43 I.Boiling point increases II.Freezing point decreases III.Vapour pressure increases Which of the above occurs when the concentration of a solution increases?
	 A) I and III B) I, II and III C) Only II D) I and II E) II and III

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17686	sol I. 7 II. IV A) B) C)	hich of the following affect the solubility of a lid in liquid? The type of solid The type of liquid The temperature The size of the solid particles III and IV I and II I and III I, II and III	42704	 Which of the following reagents is used in a test for a reducing sugar? A) Ethanol B) Biuret reagent C) Iodine solution D) Benedict's solution E) Sudan III
		48 (1) II, III and IV	Hormones are chemicals that regulate many biological processes in the body and help in homeostasis. Which of the following takes place when blood sugar level rises?	
45 89911	ne A) B) C) D)	hich of the following changes occur when a utral atom becomes a CATION? Accepts neutrons Loses protons Loses electrons Accepts electrons Accepts protons	42729	 A) Pancreas secretes glucagon which lowers blood sugar level. B) Liver converts glycogen to glucose. C) Pancreas secretes insulin which reduces blood sugar level. D) Pancreas secretes adrenaline which causes the conversion of sugars to glycogen in the liver. E) Adrenal glands secrete adrenaline which lowers blood sugar level.
45726	m a A) B) C) D)	 hich of the following is TRUE about the annualian heart? Left atrium has the thickest walls. Oxygenated blood leaves the heart in the carotid artery. Right atrium receives oxygenated blood from vena cava. The valves present between atria and ventricles prevent the backflow of blood during ventricular systole. Pulmonary artery carries oxygenated blood from the lungs to the heart. 	49 45736	 Which of the following parts of the brain controls the sense of balance and muscle actions? A) Cortex B) Medulla C) Hypothalamus D) Cerebrum E) Cerebellum

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E) All the chips decreased in size.

Α Α 58 Which of the following is <u>true</u> about cigarette 55 Fertilisation is the fusion of the nuclei of male and female gametes to form the zygote. There are two smoke? types of fertilisation: external and internal. Which A) Nicotine in cigarettes is a yellow substance and it of the following statements is TRUE? stains the fingers and teeth of smokers. A) In internal fertilisation, female produces less ova. B) It contains nicotine which causes cancer. B) External fertilisation is more advantageous than C) It contains carbon monoxide which reduces the 42720 internal fertilisation. capacity of haemoglobin to carry oxygen. C) The chance for a sperm to find and fuse with an D) It contains tar which is addictive. ovum is higher in external fertilisation. E) Carbon monoxide in cigarette smoke is a D) All aquatic animals carry out external fertilisation. carcinogen. E) Internal fertilisation takes place in the uterus of a mammal. 59 Which of the following is a rich source of iron in diet? 56 Which of the following is NOT a type of asexual reproduction? A) Fish B) Oranges A) Conjugation C) Meat B) Budding D) Carrots $E \cup Carrow Car$ C) Binary fission D) Sporulation E) Vegetative propagation 60 Which of the following is TRUE about the three types of blood vessels? 57 Amount of energy needed per day for a person is increased greatly if: A) Blood inside veins flows under a high pressure. B) Blood flow inside the capillaries is very fast. A) the person is above 50. C) Arteries have valves inside them to prevent the B) the person is breast-feeding. backflow of blood. C) the person is an adult female. D) Veins have thinner walls than arteries. D) the person is an office worker. E) Arteries always carry oxygenated blood. E) the person is a baby. **TEST BİTTİ**

CEVAPLARINIZI KONTROL EDİNİZ