

A

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- A) 100 N
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8 Which of the following values can be calculated by multiply velocity and time

- A) speed
- B) distance
- C) force
- D) displacement
- E) work

9 Which is not a unit of power

- A) Nm/s
- B) watt
- C) kW
- D) j/s
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12 The area of the large piston in a hydroulic lift is 400 cm^2 and the area of the small piston is 20 cm^2 If a force of 200 N is applied on the small piston. Calculate the mass that can be lifted by this machine.

- A) 4 kg
- B) 400 kg
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13 Choose the correct statement

- A) simple machines can change the type of force, the direction of force or magnitude of force
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14 What is the pressure half way up a swimming pool full of water. The pol is 8m long, 6m wide and 4m deep and the density of water is 1000 kg/m^3 .

- A) $30\,000 \text{ Pa}$
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15 mirrors converge parallel rays of light and is an example.

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16 Which element is odourless and colourless?

- A) Ar
- B) s
- C) c
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17 Which element below is not found as a diatomic molecule?

- A) calcium
- B) hydrogen
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18 Which of the following is a covalent compound

- A) Ag₂ O
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- D) NaCl
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19 The number of electrons in ion X⁻³ ion is equal to the number of electrons of argon. What is the name of this element?

- A) Phosphorus
- B) Aliminium
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20 Isotopes

- A) have the same atomic and mass numbers
- B) have the same number of protons and neutrons
- C) have different number of protons
- D) have the same number of neutrons but different number of protons
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21 Who discovered neutrons?

- A) Rutherford
- B) Bohr
- C) Dalton
- D) Chadwick
- E) None of the above

22 makes up almost of the atoms mass

- A) Electron
- B) Nucleus
- C) Neutron
- D) Proton
- E) All of the above

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23 Which is not a property of metals?

- A) ductile
- B) malleable
- C) dull
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24 Which is correct for an ion which has a charge of -3

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- A) 111%
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- B) 2.8.6
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28 Which one is related with arteries?

- A) they are the thinnest blood vessels
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29 The area of the large piston in a hydraulic lift is 100 times the area of the small one. How much force is needed to lift a weight of 6000N?

- A) 600N
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- C) 6000N
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30 A denine nucleotide always binds with

- A) thymine nucleotide
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31 Natural abundances of the isotopes X-25 and X-30 are 80% and 20% respectively. Which of the average atomic masses is possible for the element X ?

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32 Simple machines have (I)..... advantage but cannot have advantage from (II).....

- A) (I) mechanical (II) effort
- B) (I) kinetic (II) distance
- C) (I) work (II) speed
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33 Which one is related with metals?

- A) They have low densities and low melting points than non-metals
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- C) They gain electrons in chemical reactions
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35 Which pair is incorrect?

- A) chloroplast → photosynthesis
- B) golgi body → DNA synthesis
- C) mitochondria → energy production
- D) ribosome → protein production
- E) endoplasmic reticulum → transport of materials

36 Which one is not correct for Noble gases?

- A) They are diatomic gases
- B) They do not undergo chemical reactions
- C) They are used in lighting
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37 Which one is not correct for chromosomes?

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38 Solubility of NaCl at 80°C is 32g / 100ml water.
Which one is the unsaturated solution of NaCl at 80°C?

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- C) They produce salt by neutralization reaction
- D) They turn blue litmus paper to red
- E) They produce hydrogen gas when react with metals

40 The initial velocity of a train is 5 m/s and it reaches a velocity of 45 m/s in 20 seconds.
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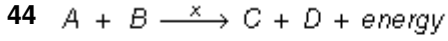
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43 Which one is not true for compounds?

- A) They are always homogenous
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Which one is not true for the above reaction?

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45 **Where is ball and socket joint found?**

- A) knees
- B) skull
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46 **Which group of elements in the periodic table never form compounds in chemical reactions?**

- A) IA
- B) VIA
- C) IIA
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47 **Which part of the brain plays an important role in answering this question?**

- A) spinal cord
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48 **Which of the following is an organ of both respiratory and digestive systems?**

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49 **One watt is**

- A) 1 J of work done over a distance of 1 m
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TEST BİTTİ
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