المملك العربية السعودية المملك المراكز التي المراكز المراكز



لكل المهتمين و المهتمات بدروس و مراجع الجامعية

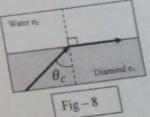


مدونة المناهج السعودية eduschool40.blog

Student ID:

- An instrument which is used to measure the extreme pressures (systolic and diastolic) Code B is called
 - a. Viscometer.
 - b. Ammeter.
 - c. Calorimeter.

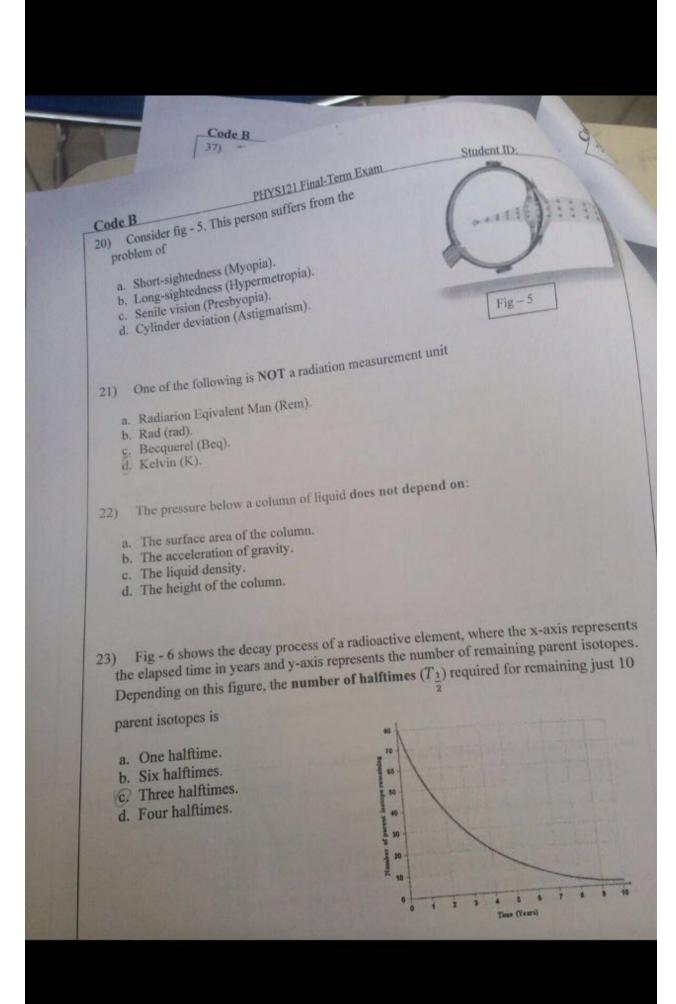
 - 30) The interaction that takes place for outer electrons, where the electron absorb some energy from the original photon gives rise to another photon with low energy is called
 - a. Pair production.
 - b. Compton scattering.
 - c. Fission.
 - d. Photoelectric effect.
 - The critical angle for diamond $(n_1 = 2.42)$ submerged in water $(n_2 = 1.33)$ is (See fig - 8)
 - a. 56.66°
 - b. 90°
 - c. 33.3°
 - d. 0.549



The average velocity of a viscous fluid flows inside a tube is 5m/s, assuming the flow

is laminar, all of the following are true except

- b. The maximum velocity will be measured at the center of the tube.
- c. The maximum velocity is 10m/s. d. The velocity just beside the wall of the tube is zero.



- Regarding the experiment for understanding the theory of sound production (fig - 7), the role of the PHYS121 Final-Term Exam. Student IDa. Allowing certain frequencies to pass toward b. Preventing sound from reaching directly to the microphone. c. Sound magnification. d. Vibrating to produce sounds. Fig. 7 25)
- Beta particles are
 - a. High energy electrons resulting from a neutron changing to a proton.
 - b. High energy electrons resulting from a proton changing to a neutron. c. Electromagnetic radiation.

 - d. Positive heavy particles emitted from the nuclei.
- For a given force and force arm values, the maximum torque can be obtained at ang (between force and force arm) equal to
 - a. 0".
 - b. 45°
 - @ 90°.
 - d. 180°.
- By definition, the frequencies of ultrasound waves are 27)
 - a. Below 20000 Hz
 - b. Below 10000 Hz
 - c. Between 10000 and 15000 Hz
 - d. Above 20000 Hz
- An object is placed in front of a convex lens, its image will be 28)
 - a. Cannot be specified unless knowing the object's distance.
 - b. Real, reduced and inverted.
 - c. Real, enlarged and inverted.
 - d. Virtual, enlarged and erected.

33) Fig -9 shows a human leg which works as a mechanical lever. Which of the following is identical to its markets:

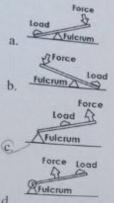




Fig-9

34) A large artery in a dog has an inner radius of $2 \times 10^{-3} m$, then the blood flows through the artery at the rate of $4 \times 10^{-6} m^3/s$. What is the maximum velocity of the blood?

- a. $3.185 \times 10^{-1} m/s$
- b. $8 \times 10^{-9} m/s$
- c. $2 \times 10^{-3} m/s$
- d. $6.369 \times 10^{-1} m/s$

Snell's Law describes 35)

- a. Reflection.
- b. Refraction.
- c. Absorption.
- d. Diffraction.

One of the advantages of myelinated nerves over unmyelinated nerves is 36)

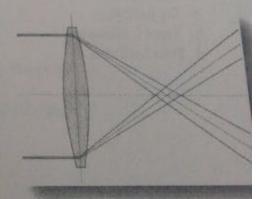
- a. The velocity of pulse in myelinated axon is higher than that of the unmylinated one by about 200 times.
- b. The resistance of myelinated nerves is smaller than unmyelinated one.
- c. The capacitance of myelinated nerves is larger than unmyelinated one.
- d. The space parameter of myelinated nerves is smaller than unmyelinated one.

Code B

How many neutrons does iron (56Fe) have? PHYS121 Final-Term Exam

- a. 26
- b. 56
- (c) 30
- d. 82
- In a longitudinal wave
 - a. The particles move parallel to the direction of the wave motion.

 - b. Energy causes the particles to move forward with the wave. c. The particles move perpendicular to the direction of the wave motion.
 - d. Energy is propagated by crests and troughs.
- 17) If the speed of light in a medium is 1.5×10^8 m/s the refractive index for this
 - a. 0.5
 - b. 1.0
 - c. 1.5
 - d. 2.0
- Isotopes are atoms, of the same element, that are
 - a. Equal in mass number but different in atomic number.
 - b. Equal in atomic and mass numbers.
 - c. Different in atomic and mass numbers.
 - d. Equal in atomic number but different in mass number.
- 19) Chromatic aberration (See fig 4) can be canceled using
 - a. Two lenses, one is convex and the other is concave.
 - b. Two lenses, one is convex and the other is concave with one of its two sides is flat.
 - c. Two convex lenses.
 - d. Two concave lenses.

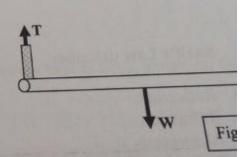


a. 1/8 cm
b. 16 cm
e. 1/16 cm
d. 8 cm
the radiation
11) An instrument which produces images of the body by detecting the radiation from a radioactive substance injected into the body is
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from a radioactive substance injected into the body is
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a. Sonar.
b. Endoscope. c. Gamma camera.
d. Radar.
G. Radar.
12) The number of vibrations or waves per unit of time is called
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b. Velocity.
c. Wavelength.
d. Period.
13) Considering far point at infinity, if the power of accommodation for a m
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a. 0.25m
b. 0.5m
c. 0.20m
d. 1m
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4) A 250N force is exerted on a mechanical lever to lift a 500N box. The
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a. Sonar. b. Endoscope.	
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diopters then his hearest point	
a. 0.25m	
b. 0.5m	
c. 0.20m	
d. 1m	
14) A 250N force is exerted on a mechanical lever to lift a 500N box. The mechanic	al
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advantage in	
a. 0.5	
b. 1	
c. 2	
d. 250	
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	No.

- The center of gravity of a fish during swimming is:
 - a. Fixed to a certain point.
 - b. Located near its tail.
 - c. Located outside its body.
 - d. Changing continuously.
- 38) The phenomenon, which caused by the change in wave frequency resulting from motion of the source or observer, is called
 - a. Doppler Flow Meter.
 - by Doppler Effect.
 - c. Wave Shift.
 - d. Motion Effect.
- 39) In resting state, there are
 - a. Equal concentrations of +ve and -ve ions inside the axon but different outside it.
 - b. Equal concentrations of +ve and -ve ions inside the axon and also outside it.
 - c. Equal concentrations of +ve and -ve ions outside the axon but different inside it.
 - d. Different concentrations of +ve and -ve ions inside the axon and also outside it.
- A solid bar is hanged by two cords 40) (see fig -10). If this horizontal bar is in translational equilibrium (No motion) and its weight is W=60N. Then the tension force in one cord is



a. 60 N

b. 30 N

c. 15 N

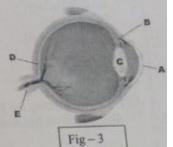
d. 120 N

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d. 250
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Page 471

5) The missing element from the following equation is

$$^{238}_{92}U \rightarrow ? + ^{4}_{2}He$$

- a. 226Ra
- b. 244Pu
- c. 231Pa
- 6) Which of the following media has the fastest sound transmission?
 - a. Water in a pool.
 - b. Wood in a desk.
 - Steel in a bridge.
 - d. Air in a classroom.
- 7) The name for part of the eye labeled "C" in the fig 3 is
 - a. Cornea.
 - W. Natural Lens.
 - c. Iris.
 - d. Pupil.



- 8) For a pipe of length 17.5cm which is open at one end and close at the other end, the first overtone is
 - a. 1466 Hz.
 - 5. 489 Hz.
 - c. 2443 Hz.
 - d. 3420 Hz.
- 9) The Na-K pump is a process responsible for
 - a. Balancing Na+ and K+ ions concentrations inside the axon.
 - b. Compensating of any shortage of Na+ and K+ ions concentrations.
 - c. Balancing Na+ and K+ ions concentrations outside the axon.
 - d. The establishment of the ion concentration imbalance and resting potential diffe