

86.Activation of benzane ring in aniline can be decreased by treating with:

- A. dll. HCI
- B. ethyl alcohol
- C. acetic acid
- D. acetyl chloride

87.Ethylamine can be prepared by the action of bromine and caustic notash on:

- A. Acetamide
- 8. Propionamide
- C. Formamide
- D. Methyl cyanide

88. The reaction of isobutane with an unknown halogen is catalyzed by light. The two major products obtained are:

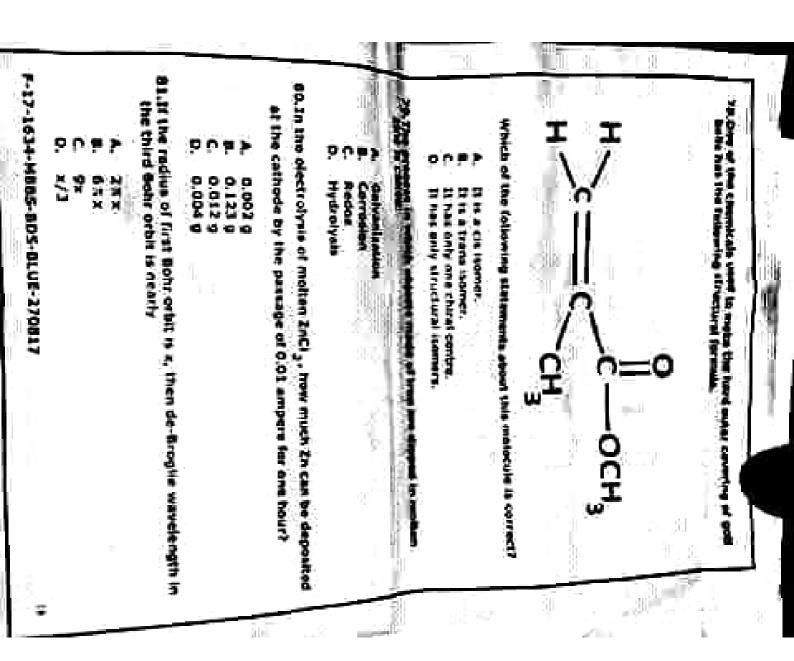


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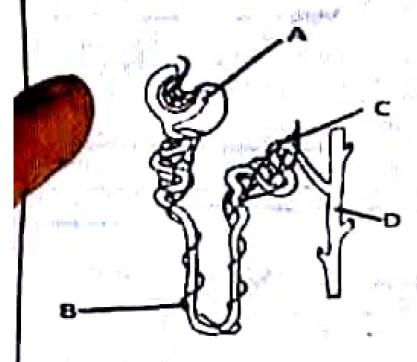


What is the unknown halogen?

- A. CI,
- B. Br
- C. 1,
- D. F,

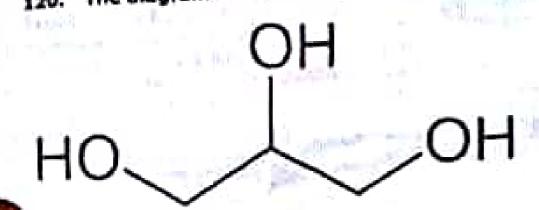


134. Which region of the kidney nephron would normally contain



- A. A
- B. B
- c. c
- D. D
- 135. On receiving the news of sudden demise of a close friend; which is the most probable hormone that is secreted at that time?
 - A. Prostaglandin
 - B. Growth inhibitors
 - C. Estrogen
 - D. Adrenaline
 - E. Thyroxin
- 136. Which of the following associations between the hormone and its classification is FALSE?
 - A. Cartisal glucocorticoid
 - B. Aldosterone mineralcorticold
 - C. ADH mineralcorticoid
 - D. Androgens cortical sex hormones
- t37. The sympathetic nervous system causes which of the following?
 - A. constriction of the pupil
 - B. decreased heart rate
 - C. Increased gastric section
 - D. reduction of adrenaline secretion
 - E. increased respiration

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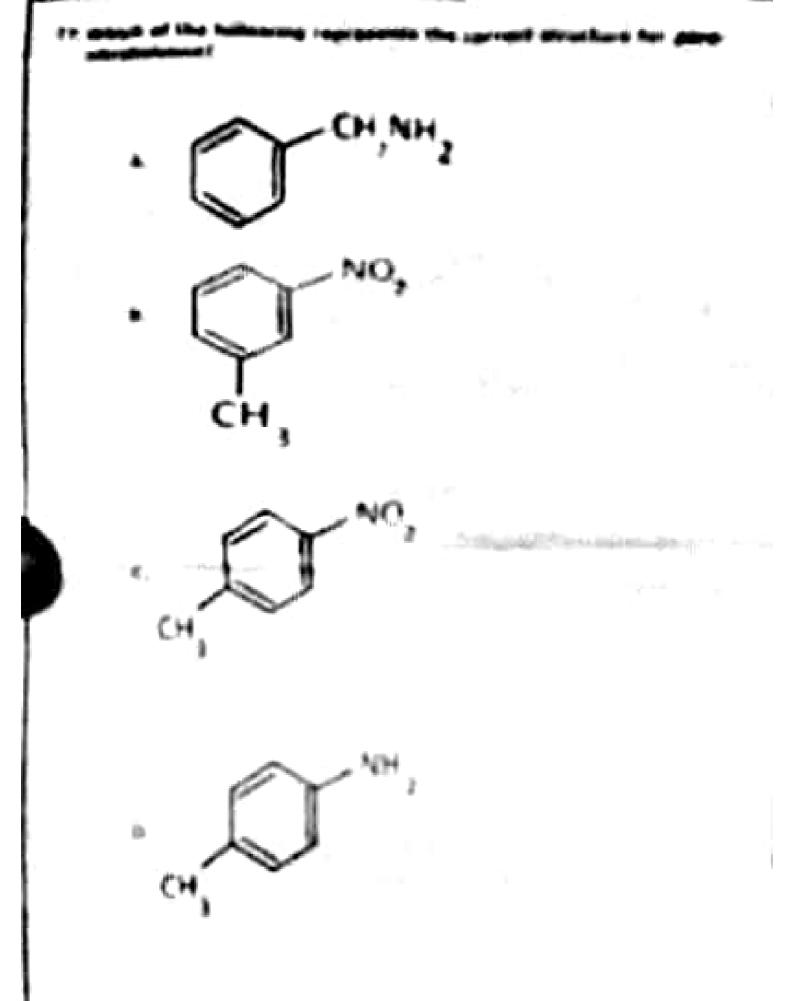


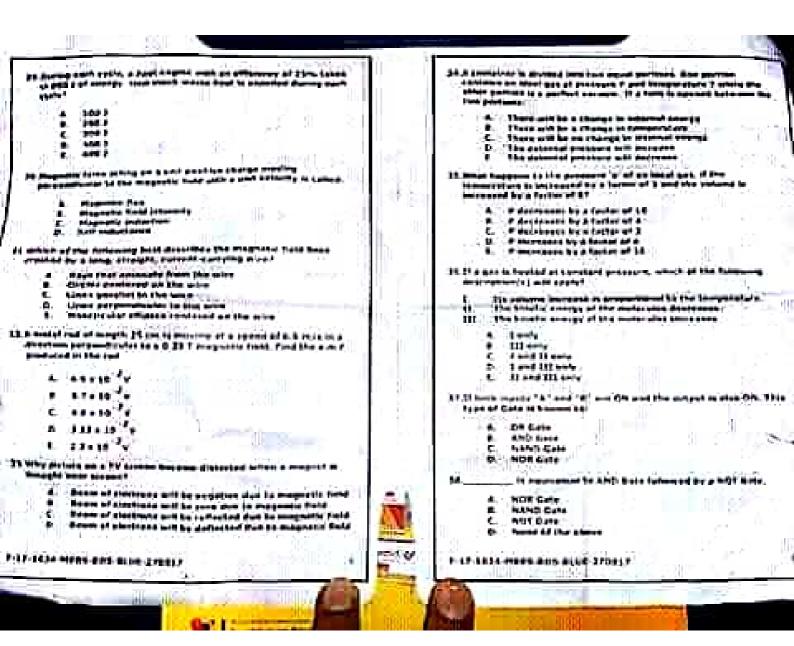
Which substance might include this molecule?

- A. Cellulose
- B. Cholesterol
- c. Glycerol
- D. Insulin
- 121. Which combination describes a triglyceride?

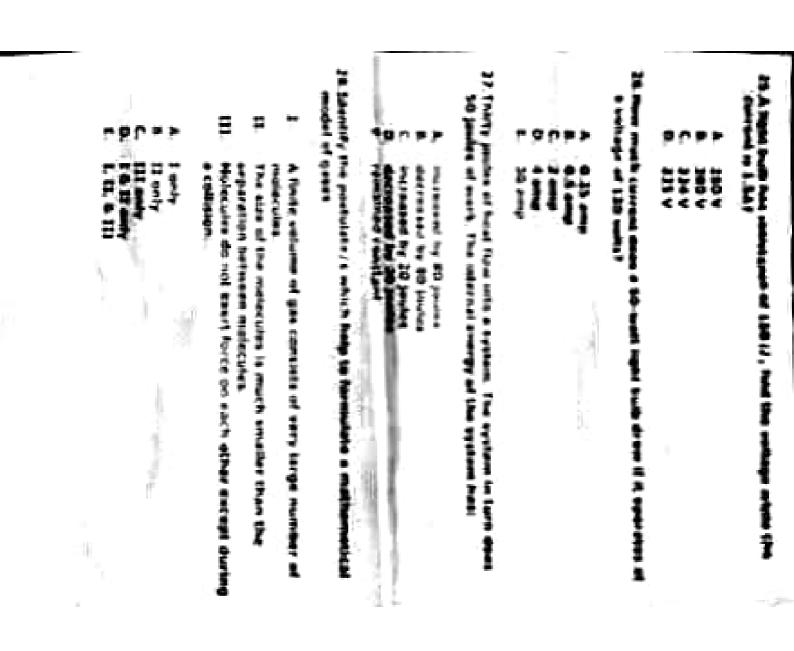
	Soluble in water	Provides energy	Produces water when respired	Soluble in organic solvent
A	*	1	1	/
8	1		· · · · · · · · · · · · · · · · · · ·	-
C	1	7	P. C. Sathmen	FORTH CONTEST
D	H.		The state of the s	- FIRST - ARASE

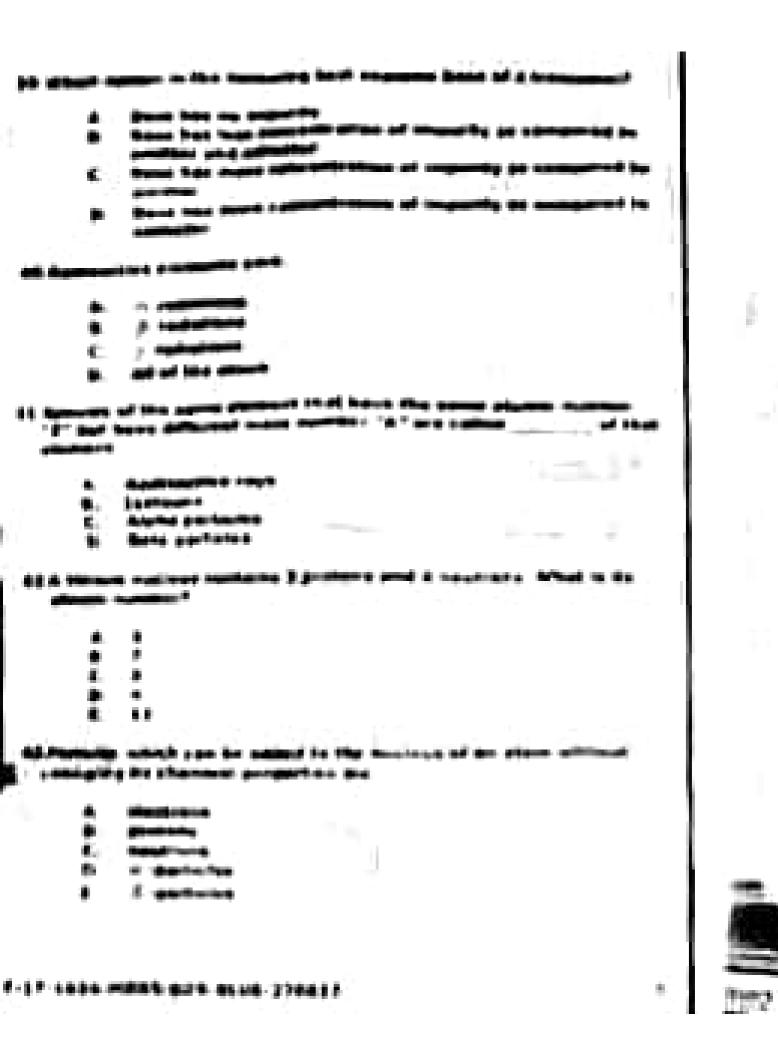
- 122. First step of viral replication is:
 - A. Entry
 - B. Assembly
 - C. Uncoating
 - D. Adsorption or Attachment
- 123. The shape of Cocci bacteria is:
 - A. Spherical
 - B. Spring
 - C. Rod
 - D. Screw
 - E. Comma
 - 124. Vibrio cholera is an example of ______ type of bacteria
 - A. Cocci
 - B. Bacilli
 - C. Spirilla
 - D. Commas





- 34.A container is divided into two equal perfect. One parties contains an ideal gas at pressure P and temperature T while the other perties is a partiest values. If a hale is opened between the two partiess:
 - A. There will be a Change in internal energy
 - B. There will be a change in temperature
 - C. There will be no though to internel marry
 - O. The external pressure will increese
 - E. The externel presture will decrease
- 35. What happens to the pressure 'p' of an ideal gat, if the lamperature is increased by a factor of 3 and the values is increased by a factor of 87
 - A. P decreases by a factor of 18
 - B. P decreases by a factor of &
 - C. P docresses by a factor of 2
 - D. P Increases by a factor of 4
 - t. P increases by a factor of 16
- 36.If a gas is heated at constant pressure, which of the following description(s) will apply?
 - Its values increase is prepartised to the temperature.
 The kinetic energy of the molecules decreases.
 - III. The binetic energy of the molecules increases.
 - A. I only
 - B. III only
 - C. I and II only
 - O. I and III only
 - E. II and III only





42-The wave number of the first line in the Balmer series of hydrogen is \$5200 cm⁻³, wave number of the first line in Balmer series of Bo³⁺ is

- A. 2.43 x 105 cm-1
- B. 1.87 x 105 cm -1
- C. 2.43 x 10⁵ m -1
- D. 1.0 x 10 5 m 1

83.11 a molecule MX3 has zero dipole moment, the sigma bonding orbitals used by M are:

- A. pure p
- S. sp hybride
- C. sp² hybrids
- D. spa 3 hybrids

84.Given the bond energies, N = N, N- H and H - H bonds are 945,
436 and 391 kimol - 1 respectively, The onthalpy of the reaction

N2(g) + 3H2(g) → 2NH2(g) is

- A. -93 k)
- B. 102 kJ
- C. 90 kJ
- D. 105 kJ

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100 TO

85.Ease of esterification of following acids with CH 3 OH

I. нсоон II. сн_а соон

III. CH3 CH2 COOH

- A. III < II < I
- 8. I < II < III
- C. II < I < III
- D. Equal

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125. These profists are mostly unicellular (a few are colonial) organisms with spherical or clongated bodies with a single central nucleus. They possoss from one to many long, whip-like flagella that enable them to move. Flagallates move rapidly, pulling themselves forward by lashing flexible flagella, that are usually located at the anterior end. Examples include trypanosome, euplena etc.

The above given lines indicate which of the following group of protoxoa?

- amocba Α.
- actinopods В.
- foraminifera
- zooflagellates D.
- 126. Which of the following statements is correct?
 - Viruses have their own ribosomes for protein formation
 - New viral ribosomes are formed after viral DNA enters Α. 8.
 - Viruses do not need ribosomes for protein formation
 - Viruses use the host ribosomes for their own D. requirements
 - and performs Nictating membrane is found in _____ function.
 - eyes ... cleaning A.,
 - brain ... thinking Б.
 - feet ... locamotion C.
 - bones ... supporting o.
 - Platyhelminthes means:
 - Flat worms Α.,

C

- Round worms 8.
- Segmented worms C.
- None of the above D.
- 129. Which of the following phylum and its examples is NOT correct?
 - Nemotoda ... Ascaris and hook worm А.
 - Annelld ... Nereis and leech В.
 - Echinodermata ... sea star and brittle star C.
 - Platyhelminthes ... Planaria and liver fluke D.
 - Cnidaria ... Euplectell and bath sponge E.

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29.During each cycle, a heat engine with an efficiency of 25% takes buries mach eyest, a hear engine with an efficiency of more taxes, in 800 J of energy, How much weste hear is expelled during each eyele? cycla7

- 100 7
- 200)
- 300 1
- 400 3
- 30. Magnetic torce acting on a unit positive charge moving perpendicular to the magnetic field with a unit velocity is called:
 - Magnetic Hux
 - Magnetic field intensity D.:
 - Magnetic Induction
- 31. Which of the following best describes the magnetic field lines created by a long, straight, current-carrying wire?
 - Rays that emonate from the wire
 - Circles centered on the wire
 - Lines parallel to the wire Ħ.
 - Lines perpendicular to the wire C.
 - NonCircular ellipses centered on the wire
 - 32.A metal rod of length 25 cm is moving at a speed of 0.5 m/s in a direction perpendicular to a 0.25 T magnetic field. Find the e.m.f. produced in the rod.
 - 6.9 x 10 -2 v
 - 5.7 x 10 -2 v В.
 - 4.6 x 10 -2 v
 - 3.13 x 10⁻² v D.
 - 2,3 x 10⁻²V
- 33. Why picture on a TV screen became distorted when a magnet is brought near screen?
 - Beam of electrons will be negative due to magnetic field Beam of electrons will be zero due to magnetic field
 - Beam of electrons will be reflected due to magnetic field R.
 - Beam of electrons will be deflected due to magnetic field C.
 - D.

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Mitional University of Medical Sciences (NUMS) (Entry Test/Admissions 2017)

MBBS/BbS

ANSWER KEY (Illion)

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