

Faculty of Health Sciences

The Admission Test is divided into Three parts; Medical Sciences (MS), English Language (EL), General Knowledge (GK) and Intelligence Test (IQ)

<u>Part</u>	<u>No of questions</u>
Part 1 (MS)	60 (1-60)
Part 2 (EL)	25 (61-85)
Part 3 (GK & IQ)	15 (86-100)

Total Marks: 100

Total Time: 1 hour and 15 min

Part I - Medical Sciences (Including Biology, Physics & Chemistry)

1. Pulse pressure (pp) is considered the _____.
 - a) Difference between the systolic and diastolic pressure
 - b) The sum of the systolic and diastolic pressure
 - c) The inverse of the blood pressure
 - d) Half of the systolic pressure

2. What type of cell releases glucagon?
 - a) β cells
 - b) α cells
 - c) plasma cells
 - d) D cells

3. What type of cell releases insulin?
 - a) β cells
 - b) α cells
 - c) plasma cells
 - d) D cells

4. What is the approximate pH of Human Blood?
 - a) 5.5
 - b) 3.5
 - c) 7.4
 - d) 8.5

5. Normal Saline contains:
 - a) 0.1 % NaCl
 - b) 0.9 % NaCl
 - c) 0.5 % NaCl
 - d) 1.5 % NaCl

6. Which of the following is not involved in the biosynthesis of a protein molecule?
 - a) Codon
 - b) Ribosome
 - c) Messenger RNA
 - d) Amylase

7. Which of the following Vitamins is not stored in the Liver?
 - a) Vitamin A
 - b) Vitamin B
 - c) Vitamin C
 - d) Vitamin D

8. Which of the following enzyme breaks down starches to maltose.
 - a) Amylase
 - b) Lipase

- c) Trypsinogen
d) Pepsin
9. Which organic compound is classified as a primary alcohol?
a) Ethylene glycol
b) Ethanol
c) Glycerol
d) 2-butanol
10. Given the reaction: $C_2H_2 + 2H_2 \rightarrow C_2H_6$
a) This reaction represents:
b) Substitution
c) Addition
d) Esterification
e) Saponification
11. Inorganic Chemical must contain:
a) Carbon Atoms
b) Lipids
c) Vitamins
d) None of above
12. Retinol is precursor of Vitamin A which is essential for:
a) Teeth
b) Nose
c) Eyes
d) Heart
13. The point at which the liquid and gases becomes on an equilibrium state is called:
a) Melting Point
b) Boiling Point
c) Freezing Point
d) End-Point
14. Compared to insulators, metals are better conductors of electricity because metals contain more-free _____.
a) Protons
b) Electrons
c) Neutrons
d) Positive ions
15. Which statement is consistent with the kinetic theory of ideal gases?
a) Molecules transfer energy through collisions.
b) Molecules are always stationary.
c) The force of attraction between molecules is constant.
d) The size of the molecules is large compared to the distance that separates them.

Part II – English Language

1. The convicted criminal absconded prior to the sentencing phase of the trial.
Absconded means...
 - a) Touched the jury.
 - b) Reported immediately.
 - c) Left after discussion.
 - d) Departed secretly.

2. The old man was benevolent with his fortune. *Benevolent* means...
 - a) Secretive.
 - b) Stingy.
 - c) Kind.
 - d) Careful.

3. I am afraid _____ cats.
 - a) to
 - b) from
 - c) of
 - d) by

4. We did not have _____ questions for the lecturer.
 - a) none
 - b) any
 - c) some
 - d) more

Comprehension

Fiberscopes are one of the most important outcomes of the science of fiber optics. Fibers made of glass and transparent acrylic plastic are capable of conveying light energy, and when thousands of these fibers are combined in what is called a fiberscope, they can transmit images. The most common fiberscopes contain about 750,000 fibers, each 0.001 centimeter. For certain uses, the diameter of the fiber may be as small as 5 microns. Fiberseopes have a wide range of applications. In the medical field, physicians use fiberscopes to examine internal organs and as an aid in delicate surgeries. Miniature probes have also been developed to view muscle fiber, skin tissue, and blood cells. Fiberscopes have also found varied uses in industry, particularly to inspect or control operations in **inaccessible** areas. Bundles of fiberscopes fused together in a solid plate, called faceplate are being used in the manufacture of television picture tubes and other cathode ray tube devices.

1. How do optical fibers carry voice messages?
 - A. By fusing bundles of fiberscopes into a faceplate.
 - B. By converting electrical signals to light pulses
 - C. By sending coordinated electrical pulses through optical fibers
 - D. By using cathode ray tube devices.

2. Approximately how many fibers does a fiberscope contain?
 - A. 750.000
 - B. 1.000.000
 - C. 500.000
 - D. 25.000

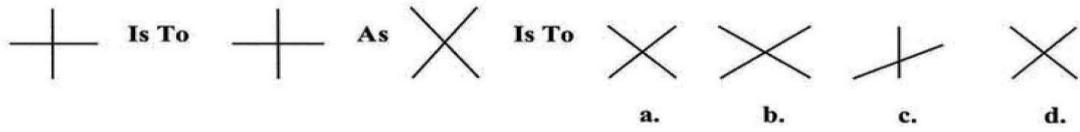
Part III – GK & IQ

1. _____ is the person who develops models for system as per user requirements.
 - a. Operators
 - b. Database manager
 - c. System analyst
 - d. Programmer

2. Which monarch ruled Great Britain the longest?
 - a. Queen Victoria
 - b. Henry VIII
 - c. Queen Elizabeth
 - d. Charles II

3. Rabid dog biting causes:
 - a) Scabies
 - b) Rabies
 - c) Scurvy
 - d) Arthritis

1. Select the shape from the graph on the right that will complete the statement on the left.



2. Select the shape which is least like the other shapes.

