

**Department of Pharmacy**  
**Sample question for Admission Test**

Name:
Serial No.:
Date:

**Chemistry**

- How many moles of  $\text{Cl}_2$  are there in 7.1g of chlorine?  
(a) 0.1 mole (c) 1 mole  
(b) 0.4 mole (d) 0.2 mole
- How many electrons can 'f' orbital hold in maximum?  
(a) 10 (c) 14  
(b) 8 (d) 18
- Which is the correct electronic distribution of Cu (29)?  
(a)  $1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10} 4s^1$  (c)  $1s^2 2s^2 2p^6 3s^2 3p^6 3d^9 4s^2$   
(b)  $1s^2 2s^2 2p^6 3s^2 3p^5 3d^{10} 4s^2$  (d) None of the above
- Which monosaccharide is mostly used for metabolism and energy production in human body?  
(a) Fructose (c) Ribose  
(b) Glucose (d) Galactose
- The substance obtained after passing ethanol vapor at elevated temperature over  $\text{Al}_2\text{O}_3$ -  
(a)  $\text{HOCH}_2\text{-CH}_2\text{OH}$  (c)  $\text{CH}_3\text{OH}$   
(b)  $\text{CH=CH}$  (d)  $\text{CH}_2=\text{CH}_2$
- Which is the chemical formula of bleaching powder?  
(a)  $\text{Ca}(\text{OCl}_2)\text{Cl}$  (c)  $\text{HCOONa}$   
(b)  $\text{Ca}(\text{OCl})\text{Cl}$  (d)  $\text{CH}_3\text{COONa}$
- Which of the following reagents will not respond to iodoform reaction?  
(a)  $\text{CH}_3\text{CH}_2\text{OH}$  (c)  $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$   
(b)  $\text{CH}_3\text{CHOHCH}_3$  (d)  $\text{CH}_3\text{COCH}_2\text{CH}_3$
- Complete the following reaction-  
$$\text{CH}_3\text{CH}_2\text{OH} \xrightarrow{[\text{O}]} \dots\dots\dots \xrightarrow{[\text{O}]} \dots\dots\dots$$
  
(a)  $\text{CH}_3\text{CHO}$ ,  $\text{CH}_3\text{COOH}$  (c)  $\text{CH}_3\text{COOH}$ ,  $\text{CH}_3\text{CHO}$   
(b)  $\text{HCOOH}$ ,  $\text{CH}_3\text{CHO}$  (d)  $\text{HCHO}$ ,  $\text{HCOOH}$

**Biology**

- What is structural and functional unit of nervous system?  
(a) Nephron (c) Neurolema  
(b) Neuron (d) None of the above
- From which cell in stomach HCl acid is secreted?  
(a) Parietal cell (c) mucus cell  
(b) Alpha cell (d) None of the above

11. Tolerance limit of arsenic in drinking water of Bangladesh-
- (a) 0.1 mg/L (c) 0.05 mg/L  
(b) 0.01 mg/L (d) 0.5 mg/L
12. Which one is the main component of pearl?
- (a) Calcium sulphate (c) calcium carbonate  
(b) Calcium chloride (d) calcium oxide
13. Which species of plasmodium does cause cerebral malaria in man?
- (a) *Plasmodium ovale* (c) *Plasmodium falciparum*  
(b) *Plasmodium vivax* (d) *Plasmodium malariae*
14. Cartilage is covered by which lining?
- (a) Periostium (c) peritrophic membrane  
(b) Perichondrium (d) cuticle
15. Which one is the correct scientific name of cockroach?
- (a) *Periplaneta europeana* (c) *Periplaneta americana*  
(b) *Periplaneta asiana* (d) *Periplaneta africana*
16. ICZN stands for-
- (a) International Cooperation on Zoological Nomenclature  
(b) International Community on Zoological Nomenclature  
(c) International Commission on Zoological Nomenclature  
(d) International Committee on Zoological Nomenclature

### English

17. The bookmark was placed \_\_\_\_\_ pages ten and eleven.
- (a) Around (c) in  
(b) Between (d) on
18. The correct antonym of the word 'ominous'-
- (a) Auspicious (c) faith  
(b) Potent (d) unlucky
19. Choose the correct article: He can play \_\_\_ flute.
- (a) No article needed (c) an  
(b) The (d) a
20. Which one is correct sentence?
- (a) He is working hardly to stand first.  
(b) He is working hard to stand first.  
(c) He works hard to standing first.  
(d) He was worked hard to stand first.