



**HAMDARD INSTITUTE OF PHARMACEUTICAL SCIENCES**  
**HAMDARD UNIVERSITY ISLAMABAD CAMPUS**

**21<sup>st</sup> ENTERANCE TEST 2014**  
**SAMPLE TEST**

Name \_\_\_\_\_

Roll no: \_\_\_\_\_

Room/Class No: \_\_\_\_\_

\_\_\_\_\_  
Candidate's Signature

\_\_\_\_\_  
Invigilator's Signature

**Instructions for computerized Answer sheet:**

- Time allowed = 100 minutes
- Use lead pencil only to shade the boxes. Use ink pen to write other information in blank spaces provided.
- Each question in the paper contain four answers: A,B,C,D. Select one of the best correct answer and fill one of the boxes on the answer sheet marked A,B,C and D.
- Fill the answer boxes **COMPLETELY DARK**. If you need to change, erase completely.

Correct way 

Wrong way 

- Do not fold or roll your answer sheet.
- Do not make any mark anywhere on the answer sheet except the prescribed area.
- Hamdard University will not be responsible for any misinterpretation by computer due to faulty filling of answer choices, making marks on the answer sheet except in the prescribed spaces or due to folding or any type of damage to the answer sheet by the examinee.
- All manual calculations can be done on side of the question paper.

## BIOLOGY (40 MCQs)

**Instructions:** each question is followed by four options. Letter A to D. Choose the correct option:

**1. Biology is a natural science concerned with the study of life and living organisms, including their structure, function, growth, evolution, distribution, and taxonomy.**

**The word "Biology" has been derived from \_\_\_\_\_ word:**

- A) Latin
- B) English
- C) Greek
- D) French

**2. According to modern system of taxonomy, living organisms have been classified into:**

- A) Three Kingdoms
- B) Five Kingdoms
- C) Two Kingdoms
- D) Six Kingdoms

**3. An earthworm is a tube-shaped, segmented animal commonly found living in soil that feeds on live and dead organic matter. It is included in:**

- A) Kingdom Plantae
- B) Kingdom Protista
- C) Kingdom Monera
- D) Kingdom Animalia

**4. Deoxyribonucleic acid (DNA) is a molecule that encodes the genetic instructions used in the development and functioning of all known living organisms and many viruses. Functional unit of DNA is:**

- A) Nucleus
- B) Chromosomes
- C) Genes
- D) Nucleolus

**5. Robert Hooke (1635 – 1703) was an English natural philosopher. He discovered:**

- A) Nucleus
- B) Mitochondria
- C) Cell
- D) DNA

PHYSICS (20 MCQs)

06. In physics, the term Ohm's law is also used to refer to various generalizations of the law originally formulated by Ohm. Symbolically Ohm's law can be written as \_\_\_\_\_

- A.  $R=VI$
- B.  $V=IR$
- C.  $I=VR$
- D. None

07. System International is the modern form of the metric system and is the world's most widely used system of measurement, used in both everyday commerce and science. The SI unit of power is \_\_\_\_\_

- A. Watt
- B. Ohm
- C. Ampere
- D. Second

08. Wheatstone bridge is a circuit used for determining the unknown \_\_\_\_\_

- A. Resistance
- B. Voltage
- C. Current
- D. All

09. The net charge flowing across the sectional area per unit time is known as \_\_\_\_\_

- A. Electric current
- B. Voltage
- C. Ampere
- D. Electric flow

10. An electric current is a flow of electric charge. Electric charge flows when there is voltage present across a conductor. Current in a dry cell is an example \_\_\_\_\_

- A. AC
- B. DC
- C. Dry current
- D. Super conductor

CHEMISTRY (20 MCQs)

11. CHO is;

- A. Molecule
- B. Empirical formula
- C. Molecular ion
- D. Formula unit

12. By 1869, a total of 63 elements had been discovered. As the number of known elements grew, scientists began to recognize patterns in the way chemicals reacted and began to devise ways to classify the elements. \_\_\_\_\_ gave the law of octave.

- A. Metals
- B. Newland
- C. Periods
- D. Ionic

13. Sulfuric acid is a highly corrosive strong mineral acid with the molecular formula  $H_2SO_4$ . It is a \_\_\_\_\_ oxide.

- A. Acidic
- B. Basic
- C. Ionic
- D. Salt

14. The periodic table is a tabular arrangement of the chemical elements, organized on the basis of their atomic numbers, electron configurations, and recurring chemical properties. The longest period in the modern periodic table is \_\_\_\_\_

- A. 7<sup>th</sup>
- B. 6<sup>th</sup>
- C. 5<sup>th</sup>
- D. 2<sup>nd</sup> and 3<sup>rd</sup>

15. Halite occurs in vast beds of sedimentary evaporite minerals that result from the drying up of enclosed lakes, playas, and seas. Rock salt (Halite) is the most abundant mineral of \_\_\_\_\_

- A. Lithium nitride
- B. Sodium
- C. Magnesium
- D.  $Mg_3N_2$

**ENGLISH (10 MCQs)**

**Instruction: choose the most appropriate synonyms:**

**16. Aconite**

- A. Flector
- B. Hoop
- C. Plant
- D. Holy

**17. Bane**

- A. Poison
- B. Clusters
- C. Bandage
- D. Harmful

**18. Wonder**

- A. Honour
- B. Express
- C. Amazement
- D. Vicegerent

**19. Abject**

- A. To dilute
- B. To lessen or lighten
- C. Miserable
- D. Encourage

**20. Vague**

- A. Respectful
- B. Warlock
- C. Uncertain
- D. Snow white

**ISLAMIC STUDIES/GENERAL KNOWLEDGE/PAKISTAN STUDIES (10MCQs)**

**21. Which is the largest river of Pakistan \_\_\_\_\_**

- A. River Sutlaj
- B. River Ravi
- C. River Sindh
- D. River Jhelum

**22. Where is MoinjoDaro \_\_\_\_\_**

- A. Balochistan
- B. Sindh
- C. Punjab

D. KPK

**23. The national bird of Pakistan \_\_\_\_\_**

- A. Pigeon
- B. Parrot
- C. Chakor
- D. None of these

**24. The other name of Shaheen-1 is \_\_\_\_\_**

- A. Hatf-III
- B. Hatf-IV
- C. Hatf-V
- D. Hatf-I

**25. The Holy Quran was revealed over how many years \_\_\_\_\_**

- A. 22
- B. 23
- C. 21
- D. 25

*“Good Luck”*

Source :-

[www.hamdard-isb.edu.pk](http://www.hamdard-isb.edu.pk)