

SAMPLE QUESTIONS

ABASYN UNIVERSITY ISLAMABAD
CAMPUS

BIOLOGY

Q1. In cell membranes, the most common lipids are

- a. Glycoproteins
- b. Phospholipids
- c. Cholesterols
- d. Glycolipids

Q2. They are the remains or impressions of living organisms preserved in rocks:

- a. Tissues
- b. Fossils
- c. Calcium
- d. Statutes

Q3. Necrosis is associated with which of the following?

- a. Tissue damage.
- b. Inflammation.
- c. Release of cellular content.
- d. All of the above.

Q4. Which of the following is true about protein layers in the plasma membrane?

- a. Protein layers are continuous.
- b. Protein layers are confined to the surface of the membrane.
- c. Protein layers are embedded in lipid layers in a mosaic manner.
- d. All of the above.

Q5. Anatomy is the study of:

- a. Functions of different parts of organisms
- b. Naming and classification of organisms
- c. Hereditary characters
- d. Structure of internal organs

Q6. Mushrooms belongs to:

- a. Zygomycota.
- b. Ascomycota.
- c. Basidiomycota.
- d. Deuteromycota.
- e. Yeasts.

Q7. The chromosome number in human is:

- a. 13 pairs
- b. 3 pairs
- c. 23 pairs
- d. 33 pairs
- e. 43 pairs

Q8. The most common method of bacterial reproduction is?

- a. Fission.
- b. Transduction.
- c. Endospore.
- d. Conjugation.
- e. Transformation.

Q9. Which of the following forms of *Plasmodium* is present in the saliva of mosquito?

- a. Merozoites
- b. Sporozoites
- c. Gametocytes
- d. Zygote

Q10. Total number of bones in a human skeleton is:

- a. 207.
- b. 206
- c. 208
- d. 205

Q11. The largest gland of the body is:

- a. Pancreas
- b. liver
- c. Pituitary gland
- d. Thyroid gland
- e. Parathyroid gland.

Chemistry

Q1. Which light color has the longest wave length?

- a. Violet
- b. blue.
- c. Red
- d. Green.
- e. yellow

Q2. Which of the following are characteristics of alkali metals?

- a. Low melting point.
- b. High ionization energy.
- c. Low electro negativity.
- d. Low boiling point.
- e. None of the above.

Q3. Which of the following contains single bond?

- a. Benzene
- b. Alkyne
- c. Alkene
- d. Alkane
- e. None of the above.

Q4. When sodium acetate is heated with soda lime, a hydrocarbon is obtained what is that?

- a. Methane
- b. Ethane.
- c. Ethene.
- d. Ethyne
- e. Benzene.

Q5. Which of the following is NOT a compound

- a. sea water
- b. brass
- c. tap water
- d. iron

Q6. Freezing point of a substance is a temperature at which a liquid substance is converted to solid, it is

- a. always lower than its melting point
- b. usually a little lower than its melting point
- c. always higher than its melting point
- d. exactly the same as its melting point

Q7. The advantage of Synthetic fibers is?

- a. Lightness of weight.
- b. Ease of ironing.
- c. Softness.
- d. Heat retention.
- e. All of the above.

Q8. The temperature recorded by Kelvin scale is

- a. 0 K
- b. 273K
- c. 373K
- d. Absolute scale is unable to record this temperature

Q9. Some substances are good conductor of electricity in both the solid and liquid states.

These substances are generally

- a. ionic substances
- b. metallic substances
- c. molecular solids
- d. covalent network solids

Q10. The chemical property (ies) of sulphuric acid is/are?

- a. Acidic properties.
- b. Oxidizing properties.
- c. Dehydrating properties.
- d. Sulphonating properties.
- e. All of the above.

English

- Q1.** English _____ my favorite subject.
a. remain
b. is
c. should
d. are
- Q2.** Study hard, _____ you will fail the subject.
a. if
b. and
c. or
d. unless

(Select the lettered pair that best matches or similar to that expressed in the original word)

Q3. SPUME

- a. Invisible
- b. Erratic
- c. Froth, foam
- d. Noxious
- e. Industrial

Q4. TRANSCRIBE

- a. Epidemic
- b. Virus
- c. Drug
- d. Copy
- e. Psychosis

Q5. Read the following passage. It is followed by several questions about it. Choose the best answer for each question.

“While most desert animals will drink water if confronted with it, for many of them the opportunity never comes. Yet all living things must have water, or they will expire. The herbivores find it in

desert plants. The carnivores slake their thirst with the flesh and blood of living prey. One of the most remarkable adjustments, however, has been made by the tiny kangaroo rat, who not only lives without drinking but also subsists on a diet of dry seeds containing about 5% free water. Like other animals, the kangaroo rat has the ability to manufacture water in its body by a metabolic conversion of carbohydrates. But it is notable for the parsimony with which it conserves its small supply by every possible means, expending only minuscule amounts in its excreta and through evaporation from its respiratory tract.”

- Q1. what is the main idea of this passage?
- a. The kangaroo rat is uniquely suited to desert life.
 - b. Animals need water to exist in the desert.
 - c. Herbivores and carnivores live together in the desert.
 - d. Animals' metabolic systems are complex.
- Q2. Which of the following is NOT a source of water for the desert animals?
- a. Desert plants
 - b. Metabolic conversion of carbohydrates in the body.
 - c. The blood of other animals
 - d. Streams

(Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.)

Q7. SMOOTH:

- a. Silky
- b. Aids
- c. Assistance
- d. Rough
- e. Confident

Q8. CHEAP:

- a. Expensive
- b. Costly
- c. Low cost
- d. Restore
- e. Both A and B

Mathematics

- Q1. What is the rate of discount if a bicycle which cost Rs. 4000 is sold for Rs. 3200?
- a. 14%
 - b. 16%
 - c. 18%
 - d. 20%
- Q2. $|-4| + |4| - 4 + 4 = ?$
- a. 0
 - b. 2
 - c. 4
 - d. 8
- Q3. What is the value of X in $3X - 15 - 6 = 0$?
- a. 7
 - b. 8
 - c. 9
 - d. -9

Q4. If A completes a particular work in 8 days and B the same work in 24 days.

How many days will it take, if they work together?

- a. 4
- b. 5
- c. 6
- d. 7

Q5. The least prime number is:

- a. 0
- b. 1
- c. 2
- d. 3

Q6. Ammar bought some apples. If he entered the store with Rs. 114 and left with Rs. 110.

How much the apples cost:

- a. 4
- b. 7
- c. 3
- d. 5

Q7. Saad was selling tickets for the university play. One day he sold tickets numbered 110 through 115. How many tickets did he sell that day?

- a. 7
- b. 8
- c. 6
- d. 5

Q8. {0} has.

- a. 1 element
- b. 0 element
- c. Null element
- d. None of the above
- e. All of above

Q9. A bird flies from his nest towards East for 2 miles and then towards North for 2 miles to a point P. The shortest distance between his nest and the point P is:

- a. 3
- b. 2
- c. $2\sqrt{2}$
- d. $3\sqrt{2}$
- None of the above

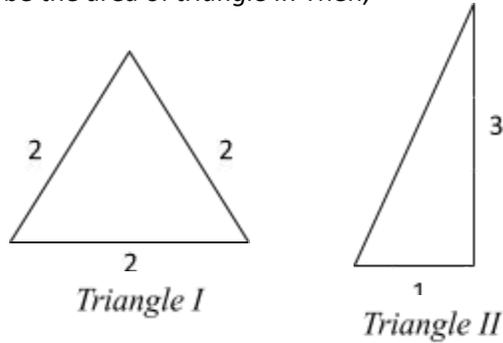
Q10. Your age is 8 years now and age of Y is 16 years. When you will be 16, Y will be?

- a. 32
- b. 16
- c. 24

- d. 21
- e. None of the above

Q11. Let X be area of *triangle I* and Y be the area of *triangle II*. Then,

- a. X is greater than Y
- b. Y is greater than X
- c. X is the same as Y
- d. Cannot be compared
- e. None of the above



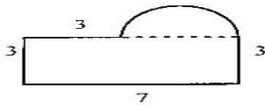
Q12. Use trial method (guessing) to find the solution sets of the following simultaneous equations.

$$x + y = 6,$$

It is known that the solutions are integers. $x^y = y^x$

- a. $\{(1,5), (5,1)\}$
- b. $\{(5,5), (-10,16), (16,-10)\}$
- c. $\{(3,3), (4,2), (2,4)\}$
- d. {all integers divisible by 3 and 2}
- e. None of the above

Q13. The perimeter of the figure with semi-circle top is:



- a. 21
- b. $16 + 2\pi$
- c. $16 + 4\pi$
- d. $16 + 8\pi$
- e. None of these

General Knowledge

Q1. Who has been appointed new Finance Advisor to PM Pakistan on Finance:

- a. Ishaq Dar
- b. Miftah Ismail
- c. Sajid Naqve
- d. Bilal Haider

Q2. Who become first player to make hat-trick in T10 cricket league:

- a. Hassan Ali
- b. Imran Tahir
- c. Shahid Afridi
- d. David Miller

Q3. The smallest city of Pakistan is:

- a. Jehlum
- b. Faisalabad
- c. Peshawar
- d. Sukkar

Q4. Who receive the first Nishan-e-Haider of Pakistan:

- a. Rashid Minhas
- b. Muhammad Sarwar
- c. Aziz Bhatti
- d. Lalik Jan

Q5. 1992 cricket world cup was played in:

- a. Sydeny
- b. Melbourne
- c. Wales
- d. Sharja

Q6. What is the capital of Taiwan:

- a. Hong Kong
- b. Taipei
- c. Shanghai
- d. Berlin