

Bio 103.36 Assignment

Group 1

Israt Hossain Chowdhury

[2513138611]

Aumiti Saha jona

[2512258615]

Fariha pushpita

[2514250648]

Noushin Nusrat Omi

[2511347048]

Maliha Ahmed

1. U- carriers cannot have unicellular eukaryotic organisms

False: Yeast, a U-carrier is considered a unicellular eukaryotic organism (correct answer)

2. One of the living characteristics is static organisation and structure

False: One of the living characteristics is cellular structure and organisation.

3. William Harvey visualized living cells 'very little animalcules'.

Ans: False (Anton van Leeuwenhook visualized living cells 'very little animalcules').

4. Plants and green organisms are primary consumers.

Ans: False (plants and green organisms are primary producers)

5. Homologous structure shows different pattern and relationship to other parts

(False)

= Homologous structure shows the same pattern and same general relationship to other parts

6. Linnaeus grouped organisms according to their structural similarities

(True)

7. There are around 10 thousands proteins in the human body. (False)

Correct ans: There are more than 100 thousands or 1 lacs proteins in the human body

8. Catabolism is the part of the metabolic process that breaks down large molecules into smaller ones in order to produce energy. (true)

9. Modern taxonomy incorporates genetic data for classification.

10. Bacteria and Archaea are identical because they are prokaryotes (False).

True: Bacteria and Archaea both are prokaryotic they differ in genetic composition and cell structure.

Group 2

Nayeem porag

Id- 2131309042

Fariha md hafizer Rahman

Id - 2513551048

ahnaf rashik

2422987047

Fathmi ali misha

2211479030

Jarin Sultana Tithi

Id: 2131397642

1)Cilia is the locomotive organ of bacteria .

Answer:False. flagella is the locomotive organ of bacteria.

2)There are 5 types of excretion in the human body.

Answer:False. 4 types.exhalation, sweat,stool,urine

3)The process by which a certain type of organism becomes better suited to survive in its environment is called variation .

Answer:False .adaptation. Variation is the change because of characteristics.

4. Mycology is the study of fungi. Answer: True

5.The study of the internal structure of organisms is called cytology.

Answer: False; The study of the internal structure of organisms is called Anatomy.

6. The modification of populations over time is called evolution. Answer: True

7.domestic cow is called "la vanche" french language.

Ans: False.German

8.Aristotle's classification system survived almost 3000 years.

Ans: False.The system survived almost 2000

9.phylogenetic system is based on(Rna).

Ans: True

10.Metabolism has two distinct phases.

Ans :true

Group 3

Nafisa Ahmed Megha(2131405630)

Kuntal Biswas(2513797015)

Abdullah(2512494015)

MH maruf(2014115630)

Shariduzzaman Nur(2513527615)

1.Organisms with homologous structures share a common evolutionary ancestor, even if their structures serve different functions (True)

2. Taxonomy is the study of the structural similarities of organisms False

–(taxonomy is the science of classification.)

3.Anabolism is the process of breaking down complex molecules into simpler ones. False.

(Anabolism is the process of building up complex molecules.)

4. Metabolism includes both the exchange of energy and matter within an organism.

(True.)

5.Cell walls were first seen in 1666.

False –(Cell walls were first seen in 1665)

6. Over 1,000,000 (1 million) different species?kinds of organisms are discovered till this day

False- (Over 1,500,000 (1.5 million) different species/kinds of organisms are discovered tills this day)

7. Carl Whose's classification system was based on analyzing mitochondrial DNA

False- (Carl Whose's classification system was based on analyzing rRNA sequences.)

8.The binomial nomenclature system requires specific names to be written in Latin.(True)

9. Variation in living organisms does not affect their chances of survival in a changing environment.

False –(variation in living organisms does affect their chances of survival in a changing environment)

10. The characteristics of living things include movement, growth, and metabolism, but not reproduction

False-(Reproduction is indeed one of the key characteristics of living things, along with movement, growth, metabolism, and others like response to stimuli, adaptation, and cellular organization.)

Group 4:

- Auyeena Mortuza Ikfa

ID: 2511164648

- Jannatul Mauya Tabassum

ID: 2511790648

• Fairuz Nawar Neha

ID: 2412096630

• Md Al Fayyaz

ID: 2512423648

• Mahatab Uddin

ID: 2513748647

1. The largest organ in the human body is the liver.

Answer: False. The largest organ in the human body is the skin.

2. All organisms are made of cells.

Answer: True

3. 'Sundew' of northern bogs is carnivorous

Answer: True

4. The sugar in DNA is ribose.

Answer: False. The sugar in DNA is deoxyribose.

5. Primary producers, such as plants and green organisms, produce food directly from the sun.

Answer: True

6. Secondary consumers feed only on primary producers.

Answer: False. Secondary consumers get food from both primary producers and primary consumers.

7. Tertiary consumers only rely on secondary consumers for their food.

Answer: True

8. Plants can convert photons to ATP through photosynthesis.

Answer: False. Plants perform photosynthesis to produce glucose, not directly ATP.

9. Ornithology is the scientific study of insects.

Answer: False. Ornithology is the scientific study of birds.

10. Plant cell is made of peptidoglycan

Answer: False. Plant cell is made of cellulose.

Group 5:

Md. Mahdiur Rahman Talukder - 2514406048

Shovo Ahmed - 2413477043

Mujahidul Islam - 2131765043

Mohtarim Billah Zihad - 2412557642

Raihan Rashid - 2014109042

1. Viruses can survive in any place.

Ans: False (A virus is a pseudo-living organism that can only live and thrive in a host.)

2. Flagella is a slender thread like structure that enables many protozoa, bacteria, etc. to swim.

Ans: True

3. An evolutionary tree is a diagram that represents evolutionary relationships among all living organisms.

Ans: True

4. The transformation of genetic information from DNA to RNA happens via protein.

Ans: False (It happens from DNA to protein via RNA)

5. Aristotle proposes the central dogma.

Ans: False (Francis Crick proposes the central dogma.)

6. Plants use their roots to capture light energy during photosynthesis.

Ans: False (Plants use their leaves to capture light energy during photosynthesis.)

7. Heredity refers to the modification of populations over time.

Ans: False (It refers to transmitting biological information from parents to offspring.)

8. 20 amino acids are found naturally.

Ans: True

9. There are 100 thousand genes in the human body.

Ans: False (There are 22 thousands)

10. Primordial Soup refers to the primitive water bodies on Earth rich in organic matter.

Ans: True

Group 6:

Sazid Hasan:

2211513042

Joy Kumar Ghosh

2211424642

Fahia Afroze Dia

2012849042

Md. Mohaiminul Islam

2013697042

Anika siddiki.

2422147610

Statements:

1. "Bios" & "Logos" words have been derived from Greek words.
-True.
2. Earth without life has single to multi-cellular organisms.
-False. [After life's evolution, the earth has single to multi-cellular organisms.]
3. The Big Bang Theory is the origin of Earth.
-True.
4. The agricultural way of life started about 10 thousand years ago.
-True.
5. Metabolism is the sum of all the processes occurring in an organism.
-True.
6. Replacing dead skin cells is an example of 'maintenance and repair'.
-True.
7. Virology is the study of bacteria.
-False [Virology is the study of viruses.]
8. Energy flows through a food chain, cycles through an ecosystem, or is converted to different forms within the cells of an organism.
-True.
9. Plants have a nervous system.
-False. [Plants do not have a nervous system.]
10. Microorganisms also can propel by their own locomotion mechanism.
-True

Group 7

Nuzhat Alam Anjum(2412255642)

Nazmoon Islam(2514320048)

Tanisha Amreen(2512379015)

Mushfiqur Rahman Mushfiq(2512693647)

Dorjoy Saha(251433647)

1. Cytology is the study of human structure.
= False. Cytology is the study of Cytoplasm function.
2. Animals don't have cellulose cell wall.
= True.
3. Phylogenetic system is a 6-system kingdom.
= False. Phylogenetic system is a 3-system kingdom.

4. Acetobactor is a N₂ fixing bacteria.
= True.
5. Hibernation is an example of stimuli.
= False. Hibernation is an example of Adaption.
6. Protoplasm ensures the living condition.
= True.
7. Modern biology started when humans had money, power and technology.
= False. Modern biology started when humans had knowledge, skill and equipment.
8. Through energy pyramid 50% of energy transferred into next level.
= False. Through energy pyramid 10% of energy transferred into next level.
9. Mimosa pudica is the scientific name of the sensitive plant.
= True.
10. Organisms with very similar structural features were considered to be the same genus.
= False. Organisms with very similar structural features were considered to be the same Species

Group 8:

Mehedi Hasan Shuvo -2423398015

Salim Sadman Soron -2212680042

Shaqib An Noor-2131563643

1. Is species the highest level of classification? (True/ False)
Ans: False. (species the Lowest level of biological classification?)
- 2 . Homologous Structure Shows the same Basic Pattern. (True/ False)
Ans: True.
- 3 .There Are 5 Characteristics of Living things? (True/ False)
Ans:False. (There Are 9 Characteristics of Living things)

4. Water Is The Universal Energy Source? (True/ False)

Ans: False. (Sun Is The Universal Energy Source)

5. Protoplasm Made up of Carbohydrates? (True/False)

Ans: True

6. Every Organism's Name is Consist of 3 Words? (True/False)

Ans: False. (Every Organism's Name is Consist of 2 Words)

7. Organisms Are Classified into three major DOMAINS? (True/False)

Ans: True.

8. There Are 7 Main taxa or Classification Group. (True/ False)

Ans: True

9. Kingdom is The Universal Level.

(True/ False)

Answer : True.

10: Genera Is Singular. (True/ False)

Ans: False. (Genus Is Singular)