

XII – ZOOLOGY (MICRO TEST- 1)
CHAPTER 6 – EVOLUTION

TIME: 1.30 hrs**MARKS: 35**

SECTION - A

I. Choose the correct answer: -**8 X 1 = 8**

1. Origin of first man like apes occurred in _____ epoch
(a) Oligocene (b) Miocene (c) Pliocene (d) Paleocene
2. Which of the following is/are not examples of analogous structure
(a) Wings of Birds and Bats
(b) Wings of Birds and Insects
(c) Thorn of Bougainvillea and Tendril of Cucurbita
(d) Flippers of Penguins and Dolphins
(a) a, b, c (b) a and c (c) b and d (d) All the above
3. Who coined the term prebiotic soup?
(a) Haldane (b) Darwin (c) Thomas Huxley (d) Henry Bastian
4. Human exploitation of forests, oceans etc leads to _____.
(a) Chromosomal mutations (b) Artificial Selection
(c) Gene recombination (d) Natural selection
5. _____ is called age of fishes
(a) Silurian (b) Ordovician (c) Devonian (d) Cambrian
6. The term biogenesis was coined by
(a) Thomas Huxley (b) Henry Bastian (c) Haldane (d) Weinberg
7. Darwin's finches in Galapagos islands and Australian Marsupials are the example of
(a) Industrial mechanism (b) Reproductive isolation
(c) Genetic recombination (d) Adaptive recombination
8. The Neanderthal man had the brain capacity of
(a) 650 – 800cc (b) 1200cc (c) 900cc (d) 1400cc

SECTION – B**II. Answer any four questions:-****4 X 2 = 8**

9. Describe an example of adaptive radiation.
10. How does an analogous organ support the theory of organic evolution.
11. State the Biogenetic law.
12. What are coprolites?
13. What is founder's effect?
14. Compare relative dating with absolute dating

SECTION – C**III. Answer any three questions. Qn. 19 is compulsory.****3 X 3 = 9**

15. Explain the types of bioremediation
16. Human appendix is a vestige. Give reason
17. Mention the main objections to Darwinism.
18. State the theory of spontaneous generation.
19. Define petrification.

SECTION – D**IV. Answer all the questions.****2 X 5 = 10**

20. a) Explain the natural selection through industrial melanism.

(OR)

b) Write a short notes stabilizing, directional and disruptive selection with example.

21. a) Explain Urey & Miller's experiment.

(OR)

b) Give a detailed account of Modern Synthetic Theory.

XII – ZOOLOGY (MICRO TEST- 1)
CHAPTER 7 – HUMAN HEALTH AND DISEASES

TIME: 1.30 hrs

MARKS: 35

SECTION - A

I. Choose the correct answer: -

8 X 1 = 8

1. Vector control research Centre is located in _____.
(a) Chennai (b) Delhi (c) Puducherry (d) Hyderabad
2. The substance not present in tobacco is _____.
(a) Nicotine (b) tar (c) Morphine (d) carbon monoxide
3. _____ is not linked to malaria
(a) Haemozoin (b) TNF-a (c) Phencyclidine (d) Interleuin
4. Which is not a granulocyte?
(a) Lymphocytes (b) Neutrophils (c) Basophils (d) Eosinophils
5. Which of the following statement(s) is true regarding cancer cells?
(a) Neoplasm or tumor cells show uncontrolled growth
(b) They are metastatic
(c) They lack contact inhibition
(d) They may be benign or malignant
(a) (a) only (b) (b) and (c) (c) (d) only (d) All the above
6. Plant source of Heroin is
(a) Poppy plants (b) Cannabis plants (c) Datura species (d) Atropa species
7. Choose the correct sequence with regard to plasmodium.
(i) Sporozoite
(ii) Microgametocyte
(iii) Signet ring stag
(iv) oocyte
(a) i, iii, iv, ii (b) i, iii, ii, iv (c) i, iv, ii, iii (d) i, ii, iii, iv
8. _____ is a pandemic disease.
(a) Polio (b) Swine flu (c) Dysentery (d) Dengue fever

SECTION – B**II. Answer any four questions:-****4 X 2 = 8**

9. What is trophozoite?
10. Define bacterial resistance.
11. Draw the diagram and label the parts of Entamoeba histolytica
12. Classify antigens based on origin.
13. Enumerate the symptoms of Swine flu.
14. What are lymphoid organs? Mention its types.

SECTION – C**III. Answer any three questions. Qn. 19 is compulsory.****3 X 3 = 9**

15. Write short notes on any two protozoan diseases.
16. Describe the structure of HIV virus.
17. "Smoking and Tobacco chewing is injurious to health" - Comment on the statement.
18. Explain a) Cell Mediated Immunity b) Antibody Mediated Immunity
19. Point out the differences between active and passive immunity.

SECTION – D**IV. Answer all the questions.****2 X 5 = 10**

20. a) Write in detail about various types of antigen-antibody reactions. **(OR)**
b) List out various barrier of innate immunity and their mechanism.
21. a) Write short note on life cycle of plasmodium. **(OR)**
b) Write short notes on structure of lymph node.

XII – ZOOLOGY (MICRO TEST- 1)

CHAPTER 8 – MICROBES IN HUMAN WELFARE

TIME: 1.30 hrs

MARKS: 35

SECTION - A

I. Choose the correct answer: -

8 X 1 = 8

1. Cry toxins obtained from *Bacillus thuringiensis* are effective against for____
(a) Mosquitoes (b) Flies (c) Nematodes (d) Bollworms
2. World Biofuel day is observed on____
(a) 10th September (b) 22nd April (c) 10th August (d) 17th October
3. Plants used for bio-diesel production____
(a) *Anabaena* (b) *Jatropha* (c) *Pongamia* (d) b and c
4. Select the correct statement from the following.
(a) Biogas is produced by the activity' of aerobic bacteria on animal waste.
(b) *Methanobacterium* is an aerobic bacterium found in rumen of cattle.
(c) Biogas, commonly called gober gas, is pure methane.
(d) Activated sludge-sediment in. settlement tank of sewage treatment plant is a right source of aerobic bacteria.
5. Match, the following list of microbes and their importance:
a) *Saccharomyces cerevisiae* - (i) Production of immunosuppressive agents
b) *Monascus purpureus* - (ii) Ripening of Swiss cheese
c) *Trichoderma polysporum* - (iii) Commercial production of ethonol
d) *Propionibacterium shermanii* - (iv) Production of blood - cholesterol lowering agents.
(a) (iv) (iii) (ii) (i) (b) (iv) (ii) (i) (iii) (c) (iii) (i) (iv) (ii) (d) (iii) (i v) (i) (ii)
6. Tetracycline is a _____
(i) bactericidal antibiotic (ii) bacteriastatic antibiotic
(iii) narrow spectrum antibiotic (iv) Broad spectrum antibiotic
(a) i and iii (b) ii and iii (c) i and iv (d) ii and iv
7. The flavour in the yogurt is due to _____
(a) Formaldehyde (b) Lactate (c) Acetaldehyde (d) Caesin
8. Assertion (A): Streptomycin is an antibiotic.
Reason (R): Antibiotic are microbial chemicals inhibits the growth of pathogenic microbe.
(a) A is right R is wrong (b) R explains A
(c) A and R are wrong (d) A and R are right R cannot explain A

SECTION – B**II. Answer any four questions:-****4 X 2 = 8**

9. What are antibiotics?
10. Saccharomyces cerevisiae is called as brewer's yeast. Justify
11. What is "clot buster"?
12. Name the source of statin and state its action on the human body.
13. Write the key features of organic farming.
14. What is antibiotic resistance?

SECTION – C**III. Answer any three questions. Qn. 19 is compulsory.****3 X 3 = 9**

15. Explain the types of bioremediation
16. Write short notes on single cell protein.
17. Give short notes on Biodiesel.
18. Justify the role of microbes as a bio-fertilizer
19. a) What is oenology? b) Write the types of grape wine.
c) Write the alcohol content in beer, wine.

SECTION – D**IV. Answer all the questions.****2 X 5 = 10**

20. a) Explain the working of a biogas plant. **(OR)**
b) Write a short notes on Microorganisms involved in bioremediation.
21. a) Write short notes on the following.
a) Brewer's yeast b) Ideonella sakaiensis c) Microbial fuel cells
(OR)
b) Explain the process of sewage treatment.

XII – ZOOLOGY (MICRO TEST- 1)
CHAPTER 9 – APPLICATIONS OF BIOTECHNOLOGY

TIME: 1.30 hrs**MARKS: 35**

SECTION - A

I. Choose the correct answer: -**8 X 1 = 8**

1. Vector for T – DNA is _____.

(a) Salmonella (b) Thermus aquaticus (c) Agrobacterium tumefaciens (d) E.coli

2. A strain of golden rice contains high contents of _____.

(a) Vitamin A (b) Vitamin C (c) Vitamin K (d) Vitamin E

3. Humulin is _____.

(a) Carbohydrate (b) Protein (c) Hybridomas (d) Vitamin

4. PCR was developed by ____.

(a) Engval (b) Kary Mullis (c) Anderson (d) Ian Wilmut

5. ELISA is mainly used for _____

(a) Detection of mutations (b) Detection of pathogens
(c) Detection of desirable character (d) Selection of desirable traits

6. The genetic defect in the synthesis of factor VIII results in _____

(a) Polycythemia (b) Anaemia (c) Thalassemia (d) Haemophilia

7. Identify the incorrect statement.

(i) The first clinical gene therapy was given by French Anderson.

(ii) For a four year old boy with ADA deficiency.

(iii) ACD is a autosomal dominant metabolic disorder.

(iv) Where patients have non-functioning B -lymphocytes.

(a) i and iv only (b) ii, iii and iv (c) i, ii and iv (d) all the above

8. Through PCR technique, amplication of _____ is possible with reverse transcriptase

(a) DNA (b) rRNA (c) tRNA (d) mRNA

SECTION – B**II. Answer any four questions:-****4 X 2 = 8**

9. Comment on SCID
10. What are transgenic animals? Give examples.
11. Define the terms (a) Totipotency (b) Unipotency
12. Explain how “Rosie” is different from a normal cow
13. What is annealing?
14. Comment on GI.

SECTION – C**III. Answer any three questions. Qn. 19 is compulsory.****3 X 3 = 9**

15. Briefly explain the structure of insulin
16. What is a stem cell bank?
17. Differentiate between Somatic cell gene therapy and germline gene therapy
18. Explain how ADA deficiency can be corrected
19. One of the applications of biotechnology is ‘gene therapy’ to treat a person born with a hereditary disease
 - i) What does “gene therapy” mean?
 - ii) Name the hereditary disease for which the first clinical gene therapy was used.
 - iii) Mention the steps involved in gene therapy to treat this disease.

SECTION – D**IV. Answer all the questions.****2 X 5 = 10**

20. a) What are stem cells? Explain its role in the field of medicine.
(OR)
b) Explain the steps involved in the production of recombinant hGH
21. a) Mention the advantages and disadvantages of cloning.
(OR)
b) List the uses of transgenesis.

XII – ZOOLOGY (MICRO TEST- 1)
CHAPTER 10 – ORGANISMS AND POPULATIONS

TIME: 1.30 hrs**MARKS: 35**

SECTION - A

I. Choose the correct answer: -**8 X 1 = 8**

1. The word 'niche' was first used by ____
(a) Charles Elton (b) Van't Hoff (c) Bergmann (d) Jordon
2. "Birds and mammals attain greater body size in colder regions than warmer regions." - Choose the correct option.
(a) Bergmann's rule (b) Jordon's rule (c) Sewall wright effect (d) Allen's rule
3. Animals destroyed at the feet of elephants is an example of ____
(a) Mutualism (b) Amensalism (c) Commensalism (d) parasitism
4. Pick out the eurythermal organism
(a) Fish (b) Frog (c) Tiger (d) Lizards
5. Locomotory speed of an organism changes due to light. This phenomenon is referred as _
(a) Photonasty (b) Photokinesis (c) Phototropism (d) Phototaxis
6. Consider the following four conditions (A-D) and select the correct pair of them as adaptation to environment in desert lizards. The conditions:
A) Burrowing in soil to escape high temperature.
B) Losing heat rapidly from the body during high temperature
C) Bask in sun when temperature is low
D) Insulating body due to thick fatty dermis.
(a) (A) and (C) (b) (B) and (D) (c) (A) and (B) (d) (C) and (D)
7. Animals that can move from fresh water to sea called as__
(a) Stenothermal (b) Eurythermal (c) Catadromous (d) Anadromous
8. Soil best suited for plant growth is _____.
(a) Sandy (b) Clay (c) Loam (d) Gravel

SECTION – B**II. Answer any four questions:-****4 X 2 = 8**

9. State Allen's rule.
10. What is competitive exclusion principle?
11. Differentiate between Eurytherms and Stenotherms.
12. What is Q_{10} value? How it is calculated?
13. Define phenotypic adaptations. Give an example.
14. Comment on Paedogenesis.

SECTION – C**III. Answer any three questions. Qn. 19 is compulsory.****3 X 3 = 9**

15. List some adaptations seen in animals to overcome extreme winters and summers
16. Eurythermy is advantageous to the animal. Justify.
17. Differentiate Natality and Mortality.
18. How are tropical forests classified?
19. Explain sigmoid growth.

SECTION – D**IV. Answer all the questions.****2 X 5 = 10**

20. a) Give an brief account on Tropical forest. **(OR)**
b) Explain the adaptations seen in terrestrial animals.
21. a) List out the properties of soil. **(OR)**
b) Write about the essential properties of water.

XII – ZOOLOGY (MICRO TEST- 1)
CHAPTER 11 – BIODIVERSITY AND ITS CONSERVATION

TIME: 1.30 hrs**MARKS: 35**

SECTION - A

I. Choose the correct answer: -**8 X 1 = 8**

1. Chipko movement is concerned with _____
(a) Forest conservation (b) Plant breeding
(c) Conservation of natural resources (d) Project Tiger
2. The Species-Area relationship was given by _____
(a) Walter Rosen (b) Humboldt (c) Wilson (d) Darwin
3. Who introduced the term biodiversity?
(a) Edward Wilson (b) Walter Rosen (c) Norman Myers (d) Alice Norman
4. IUCN has its headquarters in _____
(a) New York (b) New Delhi (c) Columbia (d) Switzerland
5. The headquarters of National Biodiversity Authority is located in
(a) New Delhi (b) Dehradun (c) Chennai (d) Kolkata
6. The highest number of species in the world is represented by _____
(a) Fungi (b) Mosses (c) Algae (d) Lichens
7. Assertion: Exotic species are introduced unintentionally or deliberately.
Reason: They are introduced to add to the species diversity of the local population.
(a) Both A and R are true and R is correct explanation for A.
(b) Both A and R are true but R is not the correct explanation for A.
(c) A is true but R is false.
(d) Both A and R are false
8. Tilapia fish (*Oreochromis mosambicus*) is exotic breed from _____
(a) Mexico (b) South Africa (c) Canada (d) Central America

SECTION – B**II. Answer any four questions:-****4 X 2 = 8**

9. Define biodiversity.
10. Define species extinction. What makes a species to become extinct.
11. What is the goal of "Project Tiger"?
12. What is Red Data Book?
13. Define gene pool.
14. List out four biodiversity hotspots in India.

SECTION – C**III. Answer any three questions. Qn. 19 is compulsory.****3 X 3 = 9**

15. What are called endangered species? Explain with examples.
16. Write a note on: i) WWF ii) Protected Area iii) Wild life sanctuaries
17. What are exotic species? Give examples.
18. "Amazon forest is considered to be the lungs of the planet" - Justify this statement.
19. Compare and Contrast the insitu and exsitu conservation.

SECTION – D**IV. Answer all the questions.****2 X 5 = 10**

20. a) Give an account on genetic diversity and community diversity.
(OR)
b) Explain in detail about various types of extinctions.
21. a) List out the various causes for biodiversity losses. (OR)
b) Why Tropical regions are rich in biodiversity?

XII – ZOOLOGY (MICRO TEST- 1)
CHAPTER 12 – ENVIRONMENTAL ISSUES

TIME: 1.30 hrs**MARKS: 35**

SECTION - A

I. Choose the correct answer: -**8 X 1 = 8**

1. UN conference on Sustainable development in 2012 was held at _____
(a) Ruanda (b) Rio de Janeiro (c) Geneva (d) Stockholm
2. Increase in the concentration of the toxicant at successive trophic levels is known as
(a) Biodeterioration (b) Biotransformation
(c) Biogeochemical cycling (d) Biomagnifications
3. The highest DDT concentration in aquatic food chain shall occur in
(a) Seagull (b) Crab (c) Cell (d) Phytoplankton
4. What is the name of the app published by Central Pollution Control Board that provides updates on AQI _____.
(a) Sultan Ahamed Ismail (b) Jhoan (c) Sameer (d) None of these
5. Average human consumption of oxygen per day is _____.
(a) 280 L (b) 550 L (c) 620 L (d) 730 L
6. The 2018 UN climate change conference was held in _____.
(a) Rwanda (b) New York (c) Russia (d) Poland
7. Assertion (A): Ozone layer protects the UV rays entering the Earth.
Reason (R): UV rays may cause melanoma
(a) Both A and R are true and R is correct explanation for A.
(b) Both A and R are true but R is not the correct explanation for A.
(c) A is true but R is false.
(d) Both A and R are false
8. World Ozone Day was observed on _____.
(a) September 16th (b) October 12th (c) December 1st (d) August 18th

SECTION – B**II. Answer any four questions:-****4 X 2 = 8**

9. What is Bio-magnification?
10. Name the main sources of air pollution.
11. What is PAN?
12. Write notes on the following: a. Eutrophication b. Algal Bloom
13. List any two adverse effects of air pollution.
14. What is 4 'R'?

SECTION – C**III. Answer any three questions. Qn. 19 is compulsory.****3 X 3 = 9**

15. What is particulate matter?
16. What is the primary purpose of the Kyoto protocol?
17. What is colony collapse syndrome?
18. List the contribution of Dr. Sultan Ahmed Ismail.
19. Discuss the role of an individual to reduce environmental pollution.

SECTION – D**IV. Answer all the questions.****2 X 5 = 10**

20. a) How can air pollution be controlled? **(OR)**
b) What is the impact of agrochemicals on the living organisms?
21. a) Discuss briefly the following: i) Catalytic converter ii) Greenhouse gases iii) Ecosan
(OR)
b) Write an essay on ozone depletion



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