

**XII – ZOOLOGY (MICRO TEST- 1)**  
**CHAPTER 1 – REPRODUCTION IN ORGANISMS**

**TIME: 1.30 hrs****MARKS: 35**

**SECTION - A**

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

1. All the following animals are continuous breeders, except.

- (a) Frogs    (b) Honey bees    (c) Poultry    (d) Rabbit

2. Regeneration was first studied by \_\_\_\_\_

- (a) A.G. Tansley    (b) Charles Bonnet    (c) Abraham Trembley    (d) Walter Gilbert

3. \_\_\_\_\_ refers to the fusion of small sized, morphologically different gametes.

- (a) Isogamy    (b) Hologamy    (c) Paedogamy    (d) Merogamy

4. \_\_\_\_\_ is a process by which the proglottids are cut off from the tapeworm.

- (a) Apolysis    (b) pedal laceration    (c) budding    (d) plasmotomy

5. A few statements describing certain features of reproduction are given below. Select the options that are true for both sexual and asexual reproduction from the options given:

- (i) Gametic fusion takes place    (ii) Transfer of genetic material takes place  
(iii) Reduction division takes place    (iv) Progeny have some resemblance, with parents  
(a) i and ii    (b) ii and iii    (c) ii and iv    (d) i and ii

6. Identify the wrong statement.

- (a) Oviparous animals lays eggs.  
(b) Viviparous animals give rise to young ones  
(c) Ovoviviparous animals lays eggs and then hatch it to young ones.  
(d) Amphibians are oviparous animals

7. Assertion (A): Asexual reproduction is called blastogenic reproduction.

Reason (R): It is accomplished by mitotic and meiotic divisions.

- (a) A and R are correct    (b) A is correct but R is incorrect  
(c) Both A and R are incorrect    (d) R is the correct explanation for A

8. Conjugation is seen in \_\_\_\_\_

(a) Vorticella (b) Amoeba (c) Reptiles (d) Actinosphaerium

### **SECTION – B**

#### **II. Answer any four questions:-**

**4 X 2 = 8**

9. What is morphallaxis?
10. What is artificial parthenogenesis?
11. Differentiate merogamy and autogamy.
12. What is plasmotomy?
13. Name the reproductive phenomenon common among ciliates.
14. Draw the diagram of gemmule and label the parts.

### **SECTION – C**

#### **III. Answer any three questions. Qn. 19 is compulsory.**

**3 X 3 = 9**

15. Write the difference between multiple fission and sporulation in Amoeba.
16. Apolysis favors Taenia solium. How?
17. Describe pedal laceration.
18. Write a short note on phases of life cycle.
19. Under threat or attack, garden lizard loses a part of its tail which trembles and avert the attention of predators, so that the lizard escapes later the tail regrown for lizard. The same phenomenon can also be noticed in organisms like starfish etc. What do you call this phenomenon? Define it.

### **SECTION – D**

#### **IV. Answer all the questions.**

**2 X 5 = 10**

20. a) Write a note on regeneration. **(OR)**  
b) Explain parthenogenesis.
21. a) Write a note on binary fission in animals. **(OR)**  
b) What are all the different kinds of syngamy.

**XII – ZOOLOGY (MICRO TEST- 1)**  
**CHAPTER 2 – HUMAN REPRODUCTION**

**TIME: 1.30 hrs****MARKS: 35**

**SECTION - A**

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

1. The whole process of spermatogenesis takes about \_\_\_\_ days.  
(a) 25 (b) 42 (c) 64 (d) 72
2. \_\_\_\_ is popularly known as sperm lysin.  
(a) Inhibin (b) Hyaluronidase (c) Androgen (d) Acrosome
3. 'Let Down' reflex for lactation is caused by \_\_\_\_  
(a) Prolactin (b) Oxytocin (c) Lactogenic hormone (d) Progesterone
4. The \_\_\_\_ glands occur posterior to the vagina.  
(a) Skene's glands (b) Cowper's gland (c) prostate gland (d) Bartholin's glands
5. \_\_\_\_ is a biochemical event which enables a sperm to fertilize an egg.  
(a) Capacitation (b) Gastrulation (c) Spermiogenesis (d) Gametogenesis
6. The foetal ejection reflex is also called \_\_\_\_ reflex.  
(a) Ferguson (b) Let – Down (c) Braxter – Hicks (d) Parturition
7. Assertion: The primary germ layers are formed during gastrulation.  
Reason: The body organs are formed from primary germ layers.  
(a) A and R are true, R is the correct explanation of A  
(b) A and R are true, R is not the correct explanation of A  
(c) A is true, R is false  
(d) Both A and R are false
8. The type of antibodies present in colostrum.  
(a) Ig E (b) Ig M (c) Ig A (d) Ig B

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

9. Define the terms: (a) Insemination (b) Fertilization.
10. What is ectopic pregnancy?
11. What is abdominal delivery or Caesarean section?
12. Enumerate the functions of reproductive system.
13. State the role of relaxin
14. What is corpus albicans?

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

15. Menstruation does not occur during pregnancy give reason.
16. Placenta is an endocrine tissue. Justify
17. Define gametogenesis.
18. Name the different types of twins formed.
19. What is Polycystic ovary syndrome (PCOS)?

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

18. a) Describe the spermatogenesis with diagram.

**(OR)**

- b) Describe the structure of a sperm with neat labelled diagram.

20. a) Explain the process of fertilization in human beings.

**(OR)**

- b) Write a note a extra embryonic membranes.

**XII – ZOOLOGY (MICRO TEST- 1)**  
**CHAPTER 3 – REPRODUCTIVE HEALTH**

**TIME: 1.30 hrs****MARKS: 35**

**SECTION - A**

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

1. Saheli is an example for \_\_\_\_ method.

- (a) Mechanical barrier (b) Chemical barrier  
(c) Hormonal barrier (d) Intra uterine Devices

2. \_\_\_\_ is observed as world population day.

- (a) 11th June (b) 11th April (c) 11th May (d) 11th July

3. \_\_\_\_ is a sexually transmitted disease caused by a fungus.

- (a) Chlamydiasis (b) Candidiasis (c) Genital herpes (d) Syphilis

4. PAP smear can help to detect \_\_\_\_.

- (a) Cancer (b) Jaundice (c) AIDS (d) Hepatitis B

5. Identify the fungal STD(s): (i) Trichomoniasis (ii) Genital herpes (iii) Candidiasis

- (a) Only (i) (b) Only (iii) (c) Only (ii) (d) Both (ii) and (iii)

6. Given below are the basic steps in IVF treatment cycle. Select the proper sequence.

(i) Ovarian stimulation (ii) Egg retrieval (iii) fertilization (iv) Embryo, culture (v) Embryo transfer

- (a) (ii) - (iv) - (v) - (i) - (iii) (b) (i) - (iii) - (ii) - (v) - (iv)  
(c) (i) - (ii) - (iii) - (iv) - (v) (d) (ii) - (i) - (iii) - (v) - (iv)

7. Identify the mismatched pair.

- (a) Candidias - Albugo candida  
(b) Lymphogranuloma venereum - Chlamydia trachomatis  
(c) Syphilis - Treponema palladium  
(d) Genital warts - Human Papilloma Virus

8. Mayer - Rokitansky syndrome is a condition in which \_\_\_\_.

- (a) Ova are not produced (b) Ovaries are not formed

(c) Fallopian tube is ruptured (d) Uterus is not functioning

### **SECTION – B**

#### **II. Answer any four questions:-**

**4 X 2 = 8**

9. What is micro-testicular sperm extraction (TESE)?
10. What is Cryopreservation?
11. Differentiate Foeticide and Infanticide.
12. What is Foetoscope?
13. How will you detect the foetal disorders, during the early stages of pregnancy?
14. Give the symptoms of Trichomoiiasis.

### **SECTION – C**

#### **III. Answer any three questions. Qn. 19 is compulsory.**

**3 X 3 = 9**

15. List out the various acts formed by the government for the better survival of girls.
16. Cervical cancer – Discuss.
17. Describe Amniocentesis.
18. Write the causes for infertility.
19. Write the bacterial STI name of the diseases, Causative agent, Symptoms and Incubation period.

### **SECTION – D**

#### **IV. Answer all the questions.**

**2 X 5 = 10**

20. a) Describe a detailed account on ART. **(OR)**  
b) Describe a detailed account on various natural methods of contraception.
21. a) Explain about breast self Examination and Early diagnosis of Cancer. **(OR)**  
b) What are IUD's? Explain its way of functioning. Also describe their types.

**XII – ZOOLOGY (MICRO TEST- 1)****CHAPTER 4 – PRINCIPLES OF INHERITANCE AND VARIATION**

TIME: 1.30 hrs

MARKS: 35

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

1. Who is the founder of Modern Eugenics movement?  
(a) Mendel (b) Darwin (c) Francis Galton (d) Karl Pearson
2. Klinefelter's syndrome is a genetic disorder which is caused by the presence of an extra chromosome number \_\_\_\_\_.  
(a) 21 (b) 23 (c) 41 (d) 20
3. The XO - XO type of sex determination is seen in \_\_\_\_\_.  
(a) moths (b) Reptiles (c) Human beings (d) Bugs
4. X chromosomes were discovered by \_\_\_\_\_.  
(a) Landsteiner (b) Henking (c) Stevens (d) Bridges
5. Co-dominant blood group is  
(a) A (b) B (c) AB (d) O
6. In \_\_\_\_\_ the tissues of male and female genotype type form a mosaic  
(a) haplo-diploidy (b) gynandromorphism (c) genic balance (d) Lygaeus type
7. A pleiotropic gene:  
(a) Is a gene evolved during Pliocene.  
(b) Controls a trait only in combination with another gene  
(c) Controls multiple traits in an individual  
(d) Is expressed only in primitive plants
8. Assertion: The Kappa in paramecium appears to be a bacterium.  
Reason: Kappa particles are not dependent on the chromosomal genes  
(a) A and R are true, R is the correct explanation of A.  
(b) A and R are true, R is not the correct explanation of A.  
(c) A is true, R is false.

(d) Both A and R are false.

### **SECTION – B**

#### **II. Answer any four questions:-**

**4 X 2 = 8**

9. What are holandric genes?
10. What is Lyon's hypothesis?
11. Define Barr Body.
12. Comment on Trisomy-21.
13. List out the clinical symptoms of Klinefelter's syndrome.
14. What is criss-cross inheritance?

### **SECTION – C**

#### **III. Answer any three questions. Qn. 19 is compulsory.**

**3 X 3 = 9**

15. What is sex Index?
16. How can erythroblasts foetalis be prevented?
17. Explain male heterogamety
18. 'AB' Blood group individuals are called universal recipients. Justify
19. Give an account of genetic control of Rh factor.

### **SECTION – D**

#### **IV. Answer all the questions.**

**2 X 5 = 10**

20. a) What is extra chromosomal inheritance? Explain with an example **(OR)**  
b) Comment on the methods of Eugenics.
21. a) Write a note on allosomal chromosomal abnormalities. **(OR)**  
b) Write notes on chromosomal abnormalities in human beings.



**XII – ZOOLOGY (MICRO TEST- 1)**  
**CHAPTER 5 – MOLECULAR GENETICS**

**TIME: 1.30 hrs****MARKS: 35**

**SECTION - A**

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

1. The total number of nitrogenous bases in human genome is estimated to be about  
a) 3.5 million    b) 35000    c) 35 million    d) 3.1 billion
2. The first codon to be deciphered was \_\_\_\_\_ which codes for \_\_\_\_\_.  
a) AAA, proline    b) GGG, alanine    c) UUU, Phenylalanine    d) TTT, arginine
3. Identify the triplet pairs that code for Tyrosine  
(a) UUU, UUC    (b) UAU, UAU    (c) UGC, UGU    (d) CAU, CAC
4. The term 'Gene' was coined by \_\_\_\_\_.  
a) Gregor Johan Mendel    b) Hugo Devries    c) Wilhelm Johannsen    d) Waldeyer
5. The electric charge on DNA & Histone is \_\_\_\_\_.  
a) Both positive    b) Both negative    c) Negative and positive respectively    d) Zero
6. DNA sequencers were developed by \_\_\_\_\_.  
(a) Frederick Serger    (b) Watson    (c) Messelson    (d) Kornberg
7. Assertion: Both the strands of DNA can be copied during transcription.  
Reason: This will help to produce more RNA with different sequences  
(a) A and R are true, R is the correct explanation of A  
(b) A and R are true, R is not the correct explanation of A  
(c) A is true, R is false  
(d) Both A and R are false
8. Which of the following statements is not true about DNA replication in eukaryotes?  
a) Replication begins at a single origin of replication.  
b) Replication is bidirectional from the origins.  
c) Replication occurs at about 1 million base pairs per minute.

d) There are numerous different bacterial chromosomes, with replication occurring in each at the same time

### **SECTION – B**

#### **II. Answer any four questions:-**

**4 X 2 = 8**

9. Differentiate - Template strand and coding strand.
10. State any three goals of the human genome project.
11. Name the anticodon required to recognize the following codons: AAU, CGA, UAU, and GCA.
12. What are the three structural differences between RNA and DNA?
13. Human Genome Project can aim at a 'Perfect Race' - Discuss
14. Who proposed the central dogma? Write its concept.

### **SECTION – C**

#### **III. Answer any three questions. Qn. 19 is compulsory.**

**3 X 3 = 9**

15. What is S-D Sequence?
16. What is 'Wobbling' in tRNA?
17. List out the applications of DNA finger printing.
18. Chemically DNA is more stable than RNA- Justify.
19. List the salient features of classical concept of gene.

### **SECTION – D**

#### **IV. Answer all the questions.**

**2 X 5 = 10**

20. a) Explain the formation of a nucleosome. **(OR)**  
b) Explain the process of DNA replication in eukaryotes.
21. a) List the salient features of genetic code. **(OR)**  
b) Describe the structure of tRNA with a diagram.



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