

Seat No.	
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B.Sc.(Semester - III) (CBCS) Examination Oct/Nov-2019

ZOOLOGY (Paper - VI)

CELL SCIENCE, GENETICS, BIOLOGICAL CHEMISTRY AND ECONOMIC ZOOLOGY

Day & Date: Thursday, 24-10-2019
Time: 03:00 PM To 05:30 PM

Max. Marks: 70

- Instructions:** 1) All questions are compulsory.
2) Figures to the right indicate full marks.
3) Draw neat labeled diagram wherever necessary.

Q.1 Fill in the blanks by choosing correct alternatives given below.

14

- 1) During meiosis chromosomal number _____.
a) Remains constant b) Reduced to half
c) Get doubled d) Get tripled
- 2) _____ are responsible for the production of antibodies.
a) Neutrophils b) Agranulocytes
c) Lymphocytes d) Basophils
- 3) Two dominant genes A & B on a same chromosome then the genes are arranged in _____.
a) cis phase b) trans phase
c) cis and trans phase d) repulsion phase
- 4) Ratio of Supplementary interaction is _____.
a) 9:3:3:1 b) 9:3:4
c) 9:7 d) 1:1:1:1
- 5) Mongloid idiocy is related with _____.
a) Klinefelters Syndrome b) Turners Syndrome
c) Downs Syndrome d) Barr body
- 6) Two strands of DNA molecule _____ to each other.
a) Parallel b) Antiparallel
c) Both a & b d) Perpendicular
- 7) Glycogen is a polymer of _____.
a) Glucose b) Galactose
c) Sucrose d) Maltose
- 8) Isinglass is a by-product of _____.
a) Poultry b) Fishery
c) Apiculture d) Sericulture
- 9) _____ equipment is essential to produce streams of bubbles in aquarium.
a) Siphon tube b) Thermometer
c) Aerator d) Nets
- 10) _____ moults occur in life of silkworm.
a) One b) Two
c) Three d) Four
- 11) Indian honey bee is _____.
a) Apis dorsata b) Apis indica
c) Apis mellifera d) Apis florea

- 12) _____ is an indigenous breed of poultry.
a) Assel b) Leghorn
c) New Hampshire d) Plymoth rock
- 13) Sneezing, gasping and droopiness are the initial symptoms of _____.
a) Small pox b) Ranikhet
c) Liverrot d) Amoebiasis
- 14) Jamunapuri goat is native breed of _____.
a) Uttar Pradesh b) Punjab
c) Rajasthan d) Gujrat

- Q.2 A) Answer the following questions. (Any Four) 08**
1) Neutrophils
2) Significance of Meiosis
3) Ornamental fish
4) Curd
5) Pollen basket
- B) Write short notes. (Any Two) 06**
1) Importance of Honey
2) Complete linkage
3) Biological Significance of RNA
- Q.3 A) Answer the following questions. (Any Two) 08**
1) Describe the Klinefelters syndrome.
2) Describe the structure of DNA.
3) Describe the indigenous breeds of goat.
- B) Answer the following questions. (Any One) 06**
1) Describe the detail process of prophase I of meiosis.
2) Describe the fish farming in freshwater.
- Q.4 A) Answer the following questions. (Any Two) 10**
1) Describe Supplementary genes with suitable example.
2) Explain mechanism of crossing over.
3) Describe the process of bee keeping.
- B) Answer the following questions. (Any One) 04**
1) Describe the life cycle of silk moth.
2) What is dairy science? Describe the milk products.
- Q.5 Answer the following questions. (Any Two) 14**
1) What is Cell Cycle? Describe its different stages.
2) Define Poultry? Explain in detail housing system of Poultry.
3) What is Apiculture? Describe in detail caste system in honey bees.