

Tamil Nadu 2026 Class 12 Zoology(Set B) Question Paper

Time Allowed :3 Hour	Maximum Marks :70	Total Questions :21
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General Instructions

- The total duration of the examination is 3 hours (180 minutes).
- Candidates are allotted 15 minutes for reading the question paper and verifying their particulars.
- The maximum marks for the theory paper is 70.
- Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.
- Use Blue or Black ink to write and underline, and use a pencil for drawing diagrams.
- The question paper consists of four parts (Part I, II, III, and IV).
- Part I is compulsory and contains multiple-choice questions.
- Internal choices and "answer any x out of y" options are provided in Parts II, III, and IV.
- Diagrams should be drawn wherever necessary and labeled neatly.
- Scientific calculators and other electronic gadgets are strictly not allowed.

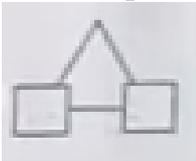
1. Allergy involves:

- (A) IgA
- (B) IgE
- (C) IgM
- (D) IgG

2. Hershey and Chase's experiment with bacteriophage showed that:

- (A) DNA contains radioactive sulphur.
- (B) Protein gets into the bacterial cells.
- (C) Viruses undergo transformation.
- (D) DNA is the genetic material.

3. This pedigree symbol represents:



- (A) Male
 - (B) Monozygotic twins
 - (C) Mating
 - (D) Dizygotic twins
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4. The wings of birds and butterflies is an example of:

- (A) Divergent evolution
 - (B) Adaptive radiation
 - (C) Variation
 - (D) Convergent evolution
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5. Select the incorrect action of hormonal contraceptive pills from the following:

- (A) Changes in cervical mucus impairing its ability to allow passage and transport of sperms
 - (B) Inhibition of spermatogenesis
 - (C) Alteration in uterine endometrium to make it unsuitable for implantation
 - (D) Inhibition of ovulation
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6. Assertion (A): In nature many organisms produce clones through asexual reproduction.

Reason (R): By this process, genetically identical individuals are produced.

- (A) Both Assertion and Reason are false.
 - (B) Assertion is true, but Reason is false.
 - (C) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
 - (D) Both Assertion and Reason are true and Reason explains Assertion correctly.
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7. Statement I: Castration (or) surgical removal of testis is known as Orchidectomy.

Statement II: It leads to difficulty in urination.

- (A) Statement I and Statement II are not correct.
 - (B) Statement I and II are correct.
 - (C) Statement I is not correct and Statement II is correct.
 - (D) Statement I is correct and Statement II is not correct.
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8. The relationship between sucker fish and shark is _____.

- (A) Predation
 - (B) Competition
 - (C) Parasitism
 - (D) Commensalism
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9. The term “Niche” was first used by _____.

- (A) John Ray
 - (B) Charles Darwin
 - (C) Jordon
 - (D) Charles Elton
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10. In which type of Parthenogenesis are only males produced?

- (A) Arrhenotoky
 - (B) Thelytoky
 - (C) Amphitoky
 - (D) Both (a) and (c)
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11. Which one of the following are at higher risk of extinction due to habitat destruction?

- (A) Amphibians
 - (B) Mammals
 - (C) Echinoderms
 - (D) Birds
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12. Find out the wrongly matched pair.

- (A) Y-chromosome - 231 genes
 - (B) Chromosome-1 - 2968 genes
 - (C) Dystrophin - 2.4 million bases
 - (D) Human genome - 300 bases
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13. The most common substrate used in distilleries for the production of ethanol is _____.

- (A) Molasses
 - (B) Soya meal
 - (C) Corn meal
 - (D) Groundgram
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14. _____ is/are an ideal disinfectant for waste water.

- (A) Boiling
 - (B) U-V Rays
 - (C) Ozonisation
 - (D) Chlorination
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15. Which of the following groups of diseases have been controlled by the use of vaccines and by creating awareness among the people?

- (A) Small pox, amoebiasis, diphtheria, tetanus.
 - (B) Small pox, polio, diphtheria, tetanus.
 - (C) Small pox, AIDS, diphtheria, tetanus.
 - (D) Small pox, common cold, diphtheria, tetanus.
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