

8. ECONOMIC ZOOLOGY

2VSAQ+1SAQ [2M +2M + 4M] = 8 MARKS

FRUIT POINTS

1. **Economic Zoology** deals with zoological principles to benefit human society through animal cultivation for mass production, food quality improvement, nutritional support and management of harmful species.
2. **Major sectors of Economic Zoology:** i) Animal husbandry, ii)Poultry, iii)Apiculture, iv) Fisheries, v) Sericulture, vi)Lac culture vii)Pearl culture.
3. **Two methods of animal breeding:** Inbreeding and Outbreeding.
4. **Inbreeding** increases homozygosity, accumulates superior genes, and increases productivity of inbred population.
5. **Outbreeding** has three types: Out-crossing, Cross-breeding, and Interspecific hybridisation.
6. **MOET** involves administering FSH-like hormones to cow, inducing super ovulation (6–8 eggs), embryos recovered at 8–32 celled stage and transferred to surrogate mother.
7. **Names of Indigenous dairy breeds:** i) Gir ii) Shaiwal iii) Red Sindhi iv) Haryana v)Deoni
8. **Hypophysation** (induced breeding) is an artificial breeding. [IPE]
9. **Indian carps:** Catla catla and Labeo rohita
10. **Exotic carps:** Grass carp and silver carp
11. **Avian Flu** is an important and dangerous viral disease affecting poultry birds and also man.
12. **Layers** are birds which are exclusively raised for the production of eggs. [IPE]
13. **Broilers** are birds which are raised only for their meat. [IPE]
14. **Apiculture** is Bee keeping. It is the maintenance of bee-hives for the production of honey and wax.
15. **Sericulture:** The silkworm is one of the most economically important insects because its cocoon produces **natural silk**, a lustrous, strong and durable fibre widely used in the textile industry.
16. **Four types of silks:** i) Mulberry Silk ii) Tasar Silk (Wild silk)
iii) Eri Silk (Peace Silk) iv) Muga Silk
17. **Lac culture:** The lac insects produce **lac resin**, a natural product with wide applications in industry, handicrafts and traditional art.
18. **Pearl Culture:** Pearl-producing molluscs are the most valuable biological gemstones. Pearl culture is an important and profitable branch of aquaculture.
19. **Two names of marine pearl oysters:**
i) Pinctada fucata (Indian pearl oyster) ii) Pinctada margaritifera
20. **CMFRI** means The Central Marine Fisheries Research Institute. It is located at Tuticorin (Tamil Nadu)