

[XII-PURE SCIENCE GROUP ONLY-2025]

XII-ZOOLOGY PUBLIC CENTUM MODEL QUESTION PAPER - 2025

SIR. CV. RAMAN COACHING CENTRE – IDAPPADI-SALEM -637101

XII- ZOOLOGY PUBLIC CENTUM MODEL QUESTION PAPER - 2025

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TOTAL MARK : 70 M, TIME : 3 HRS

SECTION – A (15 X 1 = 15 M)

I .choose the correct best answer ;

1. In which mode of reproduction variations are seen
a) Asexual b) Parthenogenesis c) Sexual d) Both a and b
2. Fossils are generally found in
a) igneous rocks b) metamorphic rocks c) volcanic rocks d) sedimentary rocks
3. The first life on earth originated
a) in air b) on land c) in water d) on mountain
4. ZW-ZZ system of sex determination occurs in
a) Fishes b) Reptiles c) Birds d) All of these
5. Which of the following is not correct?
a) Three or more alleles of a trait in the population are called multiple alleles.
b) A normal gene undergoes mutations to form many alleles.
c) Multiple alleles map at different loci of a chromosome.
d) A diploid organism has only two alleles out of many in the population
6. Select the incorrect action of hormonal contraceptive pills from the following
(a) Inhibition of spermatogenesis. (b) Inhibition of ovulation.
(c) Changes in cervical mucus impairing its ability to allow passage and transport of sperms.
(d) Alteration in uterine endometrium to make it unsuitable for implantation.
7. Identify the correct statements from the following
(a) Chlamydia is a viral disease.
(b) Gonorrhoea is caused by a spirochaete bacterium, *Treponema palladium*.
(c) The incubation period for syphilis is 2 to 14 days in males and 7 to 21 days in females.
(d) Both syphilis and gonorrhoea are easily cured with antibiotics.
8. The male homologue of the female clitoris is
a. Scrotum b. Penis c. Urethra d. Testis
9. The milk secreted by the mammary glands soon after child birth is called
a. Mucous b. Colostrum c. Lactose d. Sucrose
10. Which among the following always decreases in a Food chain across trophic levels?

- a) Number b) Accumulated chemicals c) Energy d) Force
11. In the E-waste generated by the Mobile Phones, which among the following metal is most abundant?
- a) Copper b) Silver c) Palladium d) Gold
12. Right to Clean Water is a fundamental right, under the Indian Constitution
- a) Article 12 b) Article 21 c) Article 31 d) Article 41
13. Conservation of biodiversity within their natural habitat is
- a) *In situ* conservation b) *Ex situ* conservation c) In vivo conservation d) In vitro conservation
14. The organization which published the red list of species is
- a) WWF b) IUCN c) ZSI d) UNEP
15. Which of the following is correct for r-selected species
- a) Large number of progeny with small size
 b) large number of progeny with large size
 c) small number of progeny with small size
 d) small number of progeny with large size

SECTION – B (6 X 2 = 12 M)

ANSWER ANY SIX QUESTIONS .COMPULSORY Q.NO ;24

16. Define BOD
17. What are called endangered species?
18. What is bioremediation?
19. What is Kala-azar
20. Define gene flow
21. Why tRNA is called an adapter molecule
22. What is haplodiploidy?
23. How are STDs transmitted
24. What is inhibin?

SECTION – B (6 X 3 = 18 M)

ANSWER ANY SIX QUESTIONS .COMPULSORY Q.NO 33.

25. List the various menstrual disorders.
26. Differentiate between the following: (a) External and Internal fertilization
27. Expand the following a) ZIFT b) ICSI
28. Why the human genome project is called a mega project?
29. Define isolating mechanism and explain its types with suitable examples.
30. Write a note on the Protozoan diseases.
31. List the advantages of biogas plants in rural areas
32. Mention the advantages and disadvantages of cloning.
33. Give an account of population regulation

SECTION – D (5 X 5 = 25 M)

ANSWER ALL QUESTIONS :

34. a) Explain Air pollution

(or)

b) Tabulate and analysis of three species population interaction.

35.a) What are the possible risks of GMOs?

(or)

b) Write short notes on the following: a) Brewer's yeast b) Ideonella sakaiensis

36 a) Explain the process of replication of retrovirus after it gains entry into the human body

(or)

b) Who disproved Lamarck's Theory of acquired characters? How?

37.a) Explain the formation of a nucleosome.

(or)

b) Discuss the genic balance mechanism of sex determination with reference to Drosophila.

38. a) Explain Amniocentesis

(or)

b) Explain Birth control method (any one method)

ALL THE BEST

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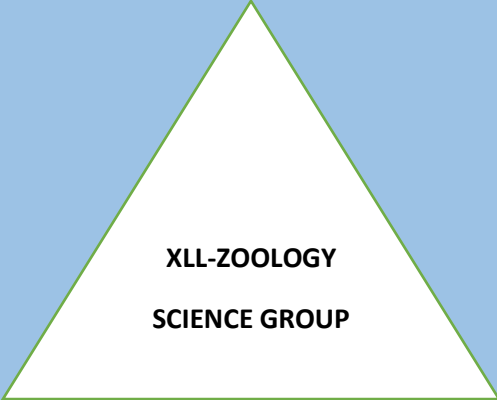
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