

DATE:
STD: XII

Centum Special Questions Paper 2024
BIO-ZOOLOGY

TIME: 1½ HRS
MARKS : 35

PART-I

Note: i) answer all the questions ii) choose the most appropriate answer from the given four alternatives and write the option code and the corresponding answer **8x1=8**

- Statement 1:** Diaphragms, cervical caps and vaults are made of rubber and are inserted into the female reproductive tract to cover the cervix before coitus.
Statement 2: They are chemical barriers of conception and are reusable.
(a) Both statements 1 and 2 are correct and statement 2 is the correct explanation of statement 1.
(b) Both statements 1 and 2 are correct but statement 2 is not the correct explanation of statement 1.
(c) Statement 1 is correct but statement 2 is incorrect.
(d) Both statements 1 and 2 are incorrect.
- The primary host of tape worm is
a. pig b. man c. sheep d. mosquito
- Y-Chromosome was discovered by
a. Henking b. Stevens c. Barr and Bertram d. Tjio and Levan
- Evolutionary history of an organism is called
a) ancestry b) ontogeny c) phylogeny d) paleontology
- Bactericidal especially used against *Mycobacterium tuberculosis*.
a) Tetracycline b) Chlortetracycline c) Streptomycin d) erythromycin
- The most important hormone in initiating and maintaining lactation after birth is
a. Oestrogen b. FSH c. Prolactin d. Oxytocin
- In prokaryotes, which also known as Kornberg enzyme
a) DNA polymerase I b) DNA polymerase II c) DNA polymerase III d) DNA ligase
- Amphetamines are stimulants of the CNS, whereas barbiturates are ----
a) CNS stimulant b) both a and b c) hallucinogenic d) CNS depressants

PART-II

Note: Answer any 4 of the questions

4x2=8

- Define vaccination.
- What is called repeated fission?
- Define superbugs?
- Differentiate Pedigree and Pedigree analysis?
- Define Mayer-Rokitansky syndrome.
- What is Sewall Wright Effect?

PART-III

Note: Answer any 3 of the questions. Question No.19 is compulsory

3x3=9

- Write the events of fertilization?
- Write about one protozoan and fungal sexual transmitted disease?
- Explain the formation of a nucleosome?
- Write the two principles of Lamarckian theory?
- Give any two bioactive molecules produced by microbes and state their uses.

PART-IV

Note: Answer all the questions.

2x5=10

- Briefly discuss about different types of antigen and antibody reactions. (OR)
Write the salient features of genetic code?
- Explain the Allosomal abnormalities in human beings? (OR)
Describe the process of Fertilization and implantation?

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