# **COMMON QUARTERLY EXAM-2024**

### Standard - XII

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Time : 3.00 hrs	ZOOLOGY	Marks: 70
*T Answer all the guest	Part - I	
1) In which mode of	reproduction variations are	nswer:- 15×1=15
a) Asexual	b) Parthenogenesis c) se	exual d) Both a and b
2) Painful menstration	is termed as	ay both a dia b
a) Dysmenorrhoea	b) Memorrhagia c) Ar	menorrhoea d) Oligomenorrhoea
3) Read the given sta	tements and select the o	correct option
Statement 1: Diaphr	agms, cervical caps and v	aults are made of rubber and
are in	serted into the female re	productive tract to cover the
	before coitus.	
a) Both statements	are chemical barriers of o	conception and are reusable
explanation of s	tatement 1	statement 2 is the correct
b) Both statements	1 and 2 are correct but s	statement 2 is not the correct
explanation of s	tatement 1	reactive it 2 is not the correct
c) Statement 1 is o	correct but statement 2 is	incorrect
d) Both statements	1 and 2 are incorrect	
4) ABO blood group in		
a) Multiple alleles	b) lethal genes c) se	x linked genes d) y linked genes
a) 650-800cc	an had the brain capacity	
6) Which disease is ca	lled Black death	00cc d) 1400cc
a) Bubonic plaque		nolera d) Tetenus
7) Hemozoin is a	-, -, -, -, -, -, -, -, -, -, -, -, -, -	ioleia a) letellas
a) pigment	b) unknown waste c) to	xic factor d) both a and c
8) The process of proc	duction of blood cells in	the bone marrow is called
a) Haemoporiesis	b) Haemato	poiesis
c) crythrocyte produc	ction d) Haemoge	nisis
9) In mammals, where	do the B.cell maturation	occurs
10) In the Lag operan	b) Bone marrow c) Br	anchial region d) Tonsils
10) In the Lac operon	yene refers to	a) inhibita
11) The mechanism of	transtation of the mDNA	c) inhibitor d) operator site
a) when the ribosor	ne subunits roady	to protein begins
h) when the subuni	ts of ribosome encounter	rs an mDNA
c) when mRNA ente		5 dii IIIKINA
d) When mRNA eng		
12) Anibrogen Binding pr	otein (ARP) is produced	by
a) Levdia cells	)) Hypothalamus () Se	ertali cells d) Pituitary gland
13) Who is the founder	of Modern Fudenics mov	ement?
a) Mendel	) Darwin Cugeriles mov	ancis Galton d) Karl Pearson
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(2)

XII ZOOLOGY

- 14) Fossils are generally found in
  - a) igneous rocks
- b) metamorphic rocks
- c) Volcanic rocks
- d) sedimentary rocks
- 15) The golden age of reptiles was
  - a) Mesozoic era b) cenozoic era
    - cenozoic era c) Paleozoic era d) Proterozoic era

#### Part - II

# II. Answer any six of the following. Question No.24 is compulsory: $6 \times 2 = 12$

- 16) Why is the offspring formed by asexual reproduction referred as a clone?
- 17) What is called Mayer-Rokitansky syndrome.
- 18) Distinguish between template strand and coding strand.
- 19) Draw the structure of Human sperm and label the parts.
- 20) What are the two methods involved in determining the age of fossils?
- 21) Listout the major gases seems to be found in the primitive earth?
- 22) What is fertilization?
- 23) What are Holandric geneis?
- 24) What is inhibin? State its functions?

#### Part - III

6×3=18

## III. Answer any six of the following. Question No.33 is compulsory:

- 25) What is the difference between syngamy and fertilization?
- 26) What are the functions of TNHSP?
- 27) Differentiate between structural gene regulating and operator gene.
- 28) Draw a flow chart showing the process Oogenisis.
- 29) Write the geological time scale of Mesozoicona?
- 30) Who disproved Lamarck's theory of acquirred characters? How?
- 31) What is Parthenogenisis? Mention its types.
- 32) What are the applications of karyotyping? (any 3)
- 33) Differentiate Spermiogenisis and Spermatogenesis?

#### Part - IV

### IV. Answer in detail:- (Answer all questions)

5×5=25

- 34) a) Explain the various phases of the menstrual cycle? [or
  - b) Explain the different kinds of syngamy in living organisms.
- 35) a) Define Eugenics? Mention the steps to improve the positive methods of Eugenics. [or]
  - b) How the Genic balance mode of sex determination takesplace in Drosophila - Explain
- 36) a) What are the Enzymes and mechanisms involved in the replication process in the Prokaryotics and Eukaryotics Explain. [or]
  - b) Why the human genome project is called a mega project? Explain.
- 37) a) Define isolating mechanism and explain its types with suitable examples.

  [or]
  - b) What are the intrauterin Divices used in the barrier methods used in birth Control? Explain?
- 38) a) List the common withdrawal symptoms of drugs and alcohol abuse. [or]
  - b) Write the three major categories in which fossilization occur?

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