Time: 3.0

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COMMON FIRST REV	ISION TEST	- 2025
Standar		eg.No. 24 19
ime: 3.00 hrs. BIOLOGY		Marks: 70
PART - I [BIO - BOTANY]		Marks: 35
Section - A ote: i) Answer all the questions.		8×1=8
ii) Choose the correct answer.		
1) Which of the following represent mega gametophyter		
h) Embryo cac	C) NUCEIIUS	d) Liluosperiii
A plant called 'X' possesses small flo	ower with reduced	perianti and versusing
anther. The probable agent for pol	c) butterfly	
a) water b) air	toc will be produc	red by a plant having
3) How many different kinds of gametes will be produced by a plant having		
the genotype AABbCC?	c) nine	d) two
a) threeb) four4) Fruit colour in cucumber is an exam		
a) Recessive epistasis	b) Dominant epi	stasis
c) Complementary genes	d) Inhibitory ger	nes
5) If haploid number in a cell is 18.	The double mor	nosomic and trisomic
number will be	e danságard for to	services (52
a) 34 and 37 b) 34 and 35	c) 37 and 35	d) 17 and 19
6) E.CORI cleaves DNA at	SOLITON SOLITONES	
a) AGGGTT b) GTATATC	c) GAATTC	d) TATAGC
7) An analysis of chromosomal DNA using the southern hybridisation technique		
does not use		
a) Electrophoresis	b) Blotting	A STATE OF THE STA
c) Autoradiography	d) Polymerase cl	
8) The prevention of large scale loss of biological interity		
a) Bio patent b) Bio ethics	c) Bio safety	d) Bio fuel
Section		AND PAR AND ACCUSED A TOP AND A STATE OF THE
e: Answer any four of the following	questions.	4×2=8
9) What is polyembryony?		
10) Define - genetics.		The same of the sa
11) What you know about PBR 322?		
12) Write the advantages of Bt cotton.		
Give some examples for microprop	agation in plants.	Control of the second second
14) What is bioremediation?		
Section	- C	de la
: Answer any three of the following	g questions.	3×3=9
Q.No. 19 is compulsory.		
15) Differentiate Grafting and Layering.		
16) Differentiate Incomplete Dominance and Codominance.		
17) What is gene mapping? Write its uses.		
18) Write brief notes about cryopreservation.		
9) What are the materials used to grow micro-organisms like spirulina?		

19) Wh

Section - D

Note: Answer the following questions. 20) List out the functions of tapetum.

(OR)

2×5=10

Explain polygenic inheritance with an example. 21) Explain the mechanism of crossing over.

(OR) How do you use the bio-technology in modern practice?

XII - Biology

PART - II [BIO - ZOOLOGY] Section - I

Marks: 35

Choose the correct answer:

8×1=8

1) Klinefelter's syndrome is characterized by a Karyotype of

a) XYY

b) XO

c) XXX

d) XXY

2) Ochoa's enzyme is

a) DNA polymerase

b) Ligase enzyme

c) Polynucleotide phosphorylase

d) Helicase enzyme

3) The process which the sperm undergoes before penetrating the ovum is

a) Spermiation

b) Cortical reaction

c) Spermiogenesis

d) Capacitation

4) The first one to encounter the antigen that enters the tissue spaces is c) Peyer's patches d) Adenoids b) Lymph node a) Thymus

5) In which mode of reproduction variations are not seen?

a) Asexual

b) Sexual

c) Conjugation d) b and c

6) A population will not exist in Hardy-Weinberg equilibrium if

a) Individuals mate selectively b) There are no mutations

c) There is no migration

d) The population in large

7) Choose the wrong statement:

a) Condom safeguards the users from STDs like AIDS.

b) Copper releasing IUDs can remain in the uterus for five to ten years.

c) Permanent contraception methods block the transport of the gametes and prevents conception.

d) Sperm remains alive for about 48 hours in the female reproductive tract.

8) Choose the correct pair:

a) Amphetamines

Stimulant

b) LSD

Narcotic

c) Heroin

Psychotropic

d) Benzodiazepine

- Pain killer

Section - II

Answer any four of the following:

 $4 \times 2 = 8$

9) List out the major gases seems to be found in the primitive earth.

10) Differentiate between External and Internal fertilization.

11) Define: Wobble Hypothesis

12) Expand the following: (a) ZIFT (b) ICSI

13) Why are sex linked recessive characters more common in the male human beings?

14) What is called as LH surge?

Section - III

Answer any three of the following. Question No. 19 is compulsory. 3×3=9

15) What are Tonsils?

16) Distinguish between structural gene, regulatory gene and operator gene.

17) Name any three major STDs and their causative agents.

18) Draw and label the human ovum.

19) State and define the evolutionary process expressed by Darwin's Finches. Name the gene associated with the variation in their beak shape.

Section - IV

Answer in detail:

2×5=10

20) Give a detailed account on the Applications and future challenges of Human (OR) Genome Project.

Explain the various barrier methods to control human population. 21) Explain the evidences from comparative anatomy in biological evolution.

(OR) Describe the structure of human sperm with a neat labelled diagram.