FIRST QUARTERLY TEST AUGUST 2024

CLASS: II PUC 100 08-01 SUBJECT: BIO TIME: 1 Hr. 30 Mins.	DLOGY (36) 11 10 339H	Max. Marks: 35
1. The question paper consists of four parts 2. Part-A consists of I and II and Part-D cor 3. All the parts are compulsory. 4. Draw diagrams wherever necessary; unlab	nsists of Section I and I	I. doe ad a find all on bind a sind all ons do not attract
PART	2.4	
I Select the correct alternative from the cl 1. The innermost wall layer of microsporangium a) Epidermis b) Endothecium	noices given below:	1x7=7 d) Tapetum
 Starting from the innermost part, choose the Egg, nucellus, embryo sac, integument Egg, embryo sac, nucellus, integument Embryo sac, nucellus, integument, egg Egg, integument, embryo Sac, nucellus Perisperm is found in the seeds of 		
a) Black pepper b) Strawberry	c) Beans	d) Ground nut
4. Spermiation is the process of release of spera) Epididymisb) Vas deferens	ms from c) Seminiferous tubules	d) Vasa efferentia
 5. Which among the following has 23 chromoso a) Oogonia b) Primary oocyte 6. The embryo with 8-16 blastomeres is called a) Classification. 	omes c) Secondary oocyte c) Blastocyts	d) Zygote
a) Cleavageb) Zygote7. The method of directly injecting a sperm into	However more concepted with	d) Morula
a) IVF-ET b) ICSI	c) ZIFT	d) GIFT
II Fill in the blanks by choosing the approp (Alleles, Chasmogamous, Cleistogamous		iven below:1x3=3
8. Flowers which do not open at all are called9. Ovulation is induced by a hormone called10. Genes which code for a pair a contrasting p		
PART	-B	
III Answer any THREE of the following quapplicable:11. What is emasculation? Why does plant bree		2x3=6
12. Placenta also acts as an endocrine tissue. Jus13. Mention the reasons for population explosion14. List any four reasons for infertility in humans15. What is test cross? Mention its significance.	i.	

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- IV Answer any THREE of the following questions in about 40-80 words each, wherever applicable:

 3x3=9
- 16. Draw and label L.S. of an embryo of Grass.
- 17. Explain the mechanism of pollination in vallisneria and seagrass.
- 18. Write the schematic representation of oogenesis. The schematic representation of oogenesis. The schematic representation of oogenesis.
- 19. Write a brief note on hormonal regulation of spermatogenesis. Uquana sus along sult IIA E
- 20. Define linkage? What are the conclusions drawn by T. H. Morgan from the crossing experiment in Drosophila with respect to linkage.

G-TRAQ Select the correct alternative fro I-NOITO32es given below:

- V Answer any ONE of the following questions in about 200-250 words each, wherever applicable: b any selection of the following questions in about 200-250 words each, wherever applicable: b any selection of the following questions in about 200-250 words each, wherever applicable: b any selection of the following questions in about 200-250 words each, wherever applicable: b any selection of the following questions in about 200-250 words each, wherever applicable: b any selection of the following questions in about 200-250 words each, wherever applicable: b any selection of the following questions in about 200-250 words each, wherever applicable: b any selection of the following questions in about 200-250 words each, wherever applicable: b any selection of the following questions in about 200-250 words each, wherever applicable: b any selection of the following questions in about 200-250 words each, wherever applicable: b any selection of the following questions in about 200-250 words each applicable of the following question of the following qu
- 21. Draw a neat labelled diagram of sectional view of Human Female Reproductive System.
- 22. a) Write the essential features required for ideal contraceptive.
 - b) Explain three types of IUD's.

c) Embryo sac, nucellus, integumentil-NOITOSE

- VI Answer any ONE of the following questions in about 200-250 words each, wherever applicable: 5x1=5
- 23. Give reasons.
 - i) Most zygotes in angiosperms divide only after certain amount of endosperm is formed.
 - ii) Groundnut seeds are exalbuminous and caster seeds are albuminous.
 - iii) Micropyle remains as a small pore in the seed coat of a seed.
 - iv) Integuments of an ovule harden and the water content is highly reduced as the seed matures.
 - v) Apple and Cashew are not called true fruits.
- 24. A plant with red flower was crossed with another plant with white flower. If F₁ hybrid showed all flowers pink in colour, explain the inheritance.

Fill in the blanks by choosing the appropriate word from those given below: 1x3=3

PART-B
III Answer any THREE of the following questions in 3-5 sentences each, wherever