

2020

Gurudas College

ZOOLOGY – HONOURS

(1+1+1 2016 Regulations)

PAPER II (UNIT 1)

Full Marks: 50

Time: 2 hrs.

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable*

Answer any twenty five of the following

2x25 = 50

1. Write 2 differences between spermatogenesis and oogenesis.
2. What do you mean by Golgi rest?
3. What do you mean by meroblastic cleavage? Give example.
4. Define coloboma of iris.
5. Define manchette.
6. Explain aleithal egg and give an example.
7. Where do you find primitive streak and when?
8. Name the protein which is responsible for the transparency of the lens.
9. What do you know about resact.
10. Compare primary and secondary egg membrane
11. What is germinal vesicle.
12. What is delamination? Give example.
13. What do you mean by reciprocal induction? Give example.
14. Explain first meiotic block.
15. What is meant by morphogenetic movement?
16. What is splanchnopleure?
17. What do you know about hemochorial placenta? Give example.
18. Explain capacitation.
19. Name 2 substances used to construct Fate map.
20. Name the experimental models used by used in transplantation experiment by Spemann.
21. Compare deciduous and non-deciduous placenta.
22. Explain cortical reaction.
23. Explain two significances of spermatogenesis.
24. Name two cryoprotectants.
25. Mention two significances of IVF.
26. Write the full form of IVF and GIFT.
27. Write two differences between spermatogenesis and spermiogenesis.
28. Write the function of chorion.
29. Name the embryonic membrane that formed first and from which layer is it formed?
30. What do you mean by residual body?

31. Explain radial cleavage. Give example.
32. Mention the importance of gene amplification in oogenesis.
33. State the importance of Nieuwkoop center.
34. Compare epiboly and emboly.
35. Name the structure in amphibia which acts as an organiser.