Reg. NoName	U508
B.SC DEGREE END SEMESTER EXAMINATION OCTOBE	ER 2016
SEMESTER – 5: ZOOLOGY (CORE COURSE)	
COURSE: USCRZOOS- CELL BIOLOGY AND MOLECULAR B	IOLOGY
Time: Three Hours	Max. Marks: 60
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Part A Answer all questions. Each question carries 1 mark.	
1. What are PPLOs?	
2. Give two examples for microfilaments.	
3. What is Recon?	
4. What is the role of c-AMP?	
5. Write any two characteristics of Z-DNA?	
6. Define one gene one enzyme hypothesis?	
7. Comment on Desmosomes	
8. What are microtubules?	$(1 \times 8 = 8)$
Part B	
Answer any Six questions. Each question carries 2 marks	
Give an account on cell coat and its function.	
10. What do u mean by GERL Concept?	
11. Define cell theory.	
12. Differentiate heterochromatin and euchromatin	
13. Enumerate the characteristics of Genetic Code.	
14. Briefly explain signal hypothesis?	
15. What do you mean by cell recognition?	
16. Draw a diagram of nuclear pore complex and label its parts.	
17. Discuss the contributions of Har Gobind Khorana.18. What are suicidal bags? Why are they called so?.	$(2 \times 6 = 12)$
18. What are suiclual bags: Why are they called so:.	(2 x 0 - 12)
Part C	
Answer any Four questions. Each question carries 4 mar	ks.
19. Explain a typical bacterial cell?	
20. Describe polymorphism in Lysosomes.	
21. List the major functions of Golgi body.	
22. Explain the features of Watson and Crick's double helix model of DN	A.

- 23. Plasma membrane is a quasi-fluid membrane. Why?
- 24. Distinguish between prokaryotes and eukaryotes?

 $(4 \times 4 = 16)$

Part D

Answer **any Two** questions. Each question carries 12 marks.

- 25. Describe gene regulation in eukaryotes?
- 26. Briefly explain the different modifications of plasma membrane with diagrams?
- 27. Explain the major events involved in the process of translation in eukaryotes
- 28. Explain the structure and function of mitochondria. $(12 \times 2 = 24)$