

BANGABASI COLLEGE
Midterm Test-2014
2nd Year Honours (1+1+1 System)
ZOOLOGY
Answer all the questions

Time:2
hrs.

Full Marks: 50

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| Q.1 | (a) Why linkage map is called genetic map? What do you understand by the terms "Coefficient of coincidence" and "Interference" | 1+2+2 |
| | (b) Why attached X method is not employed for the detection of lethal mutations in <i>Drosophila melanogaster</i> ? | 2+3 |
| Q.2 | Describe sex determination in <i>Drosophila</i> Sp., What is intersex in <i>Drosophila</i> ? What is TDF? Mention the sex reversal syndrome in human beings. | 5+1+2+2 |
| Q3 | What is organizer. State the properties and functions of organizer. Discuss the transplantation experiments of Spemann & Mangold. | 2+3+5 |
| Q4 | (a) Define hormone and neurohormone. Give two examples of two protein hormones and steroid hormones. | 2+2 |
| | (b) Name the hormones involved in calcium metabolism and carbohydrate metabolism. | 2+2 |
| Q5 | (a) State the mechanism of action of steroid hormone with suitable diagram. | 6 |
| | (b) i. What does happen when glucagons secretion increases.
ii. What is homeostasis.
iii. What is Grave's disease. | 2+2+2 |