

FAKIR CHAND COLLEGE
INTERNAL EXAM 2020/2021
SEM 5 ZOOLOGY HONOURS

Paper- CC11. Ecology

FM-10

Answer any Ten (10) : 10x1

1. What is Biosphere?
2. What is synecology?
3. Give an example of r selected species.
4. Write down the Lotka-Volterra equation.
5. Give two characteristics of community.
6. What are survivorship curves?
7. Name two demographic factors.
8. What is the difference between species abundance and dominance?
9. What is ecological stratification?
10. What is climax species?
11. What is the difference between food chain and food web?
12. What is a detritus food chain?
13. What is biodiversity?
14. Name to rare species.
15. What is red data book?

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Paper- CC12.Principles of Genetics

FM-10

Answer any Ten (10) : 10x1

1. What is co-dominance.
2. Give example of incomplete linkage?
3. What do you mean by pleiotropy?
4. Define SINE.
5. Give an example of sex chromosomal Trisomy.
6. What is the difference between isoallele and pseudoallele?
7. What is meant by the value $I = 1$?
8. What is deletion mutation?
9. Name two chemical mutagens.
10. How is dosage compensated in man?
11. What are Alu elements?
12. What is Kappa particle?
13. What are variations in chromosome number called?
14. What is the other name for complementation test?
15. What is an IS element?

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Paper-DSEA1. Parasitology

FM-10

Answer any Ten (10) : 10x1

1. What is an ideal parasite?
2. What is a host-parasite relationship called?
3. Give an example of facultative parasite.
4. Name an invertebrate vector of protozoan parasite.
5. Give two symptoms of giardiasis?
6. What is paroxysm?
7. What is the infective stage of *Trypanosoma gambiense* ?
8. How is Leishmaniasis detected?
9. Give prophylactic method of Taeniasis.
10. How can you differentiate between male and female *Ascaris lumbricoides*?
11. What is Filariasis?
12. Name two nematodes that are plant parasite.
13. What is zoonosis?
14. What kind of parasite are Hood mocking birds?
15. How can you control tick?

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Paper-DSEB1. Endocrinology

FM-10

Answer any Ten (10) : 10x1

1. Name the hormones in calcium homeostasis.
2. Write the principle of ELISA technique.
3. Write 2 functions of ACTH hormone.
4. What is feedback mechanism of hormones?
5. What is the prerequisite for mechanism of action in protein hormones?
6. How do peptide hormones enter a target cell?
7. Give an example of 2nd messengers?
8. What is LH surge?
9. What is the fate of corpus luteum?
10. What is Graves' disease.
11. What is HPA-axis?
12. What is the function of prolactin in Amphibia?
13. What is Anestrus phase?
14. What causes Diabetes mellitus type II?
15. State the role of melanotropin in Reptiles.