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(Pages : 2)

Reg. No:

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fourth Semester B.Sc Psychology Degree Examination, April 2022

BZL4C06 – Human Physiology – IV

(2019 Admission onwards)

Time: 2 hours

Max. Marks : 60

SECTION -A

Answer *ALL* Questions. Answer in Two or three sentences. Each carries 2 marks.

There shall be ceiling of 20 marks in this section

- 1 Explain the effects of blood glucose concentrations on hunger
- 2 Differentiate between perinatal stage and neonatal stage.
- 3 What is the role of testosterone in women?
- 4 'The functions of Ghrelin and Leptin are mutually antagonistic'. Substantiate.
- 5 What are the causes of cellular dehydration?
- 6 What is Cachexia?
- 7 What is the purpose of Apoptosis?
- 8 What are neurotransmitters? Give two examples.
- 9 Mention what is specific hunger, and what is its significance?
- 10 Explain set point theory.
- 11 Which type of cell produces GLP-1 hormone and what stimulates its secretion?
- 12 Differentiate Bulimia nervosa from Inanition.

(Ceiling 20 marks)

SECTION -B

Answer *all* questions. Answer in a paragraph of about half a page to one page .
Each question carries 5 marks. There shall be ceiling of 30 marks in this section

- 13 Which are the more important brain structures that compose the 'reward system', and what is its significance?
- 14 What are the causes and symptoms of Kluver –Bucy syndrome?
- 15 Briefly mention the causes, symptoms and treatment of Anorexia nervosa.
- 16 What is meant by puberty? Mention the secondary sexual characteristics expressed in males on attaining puberty.

- 17 What are the major factors that contribute to cerebral hemorrhage and what are its symptoms?
- 18 Explain the different effects of estrogens in females.
- 19 What is obesity? When can a person be considered obese and what are the health risks that obesity poses

(Ceiling 30 Marks)

SECTION -C

Essay Type Questions

Answer *Any one* of the following .Each Carries 10 Marks.

- 20 What is epilepsy? Highlight the differences between Petit Mal Epilepsy and Focal epilepsy.
- 21 What factors influence the development of an embryo with an 'XY' genetic complement, into a male fetus?

(1 x 10 = 10 marks)



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Reg. No:

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Fourth Semester B.Sc Zoology Degree Examination, April 2022

BZL4B04 – Animal Diversity – Chordata Part II

(2019 Admission onwards)

Time: 2 hours

Max. Marks : 60

SECTION A

Answer the following questions. Each carries *two* marks
(Ceiling 20)

1. Give the adaptations of *Bubo*?
2. Mention the characteristic features of *Cicconiformes*?
3. Comment on *Aptenodytes*?
4. What is pygostyle?
5. What are filoplumes?
6. Give the structure of cloaca of *Columba livia*?
7. Give the structure of pectoral girdle of Rabbit?
8. Write a short notes on salivary glands of *Oryctolagus*?
9. Comment on cochlea of Rabbit.
10. Write notes on Borneo Pigmy?
11. Give the adaptations of *Pteropus* .
12. Give the characters of *Tubulidentata*?

SECTION B

Answer the following questions. Each carries *five* marks
(Ceiling 30)

13. Explain the internal structure of heart of *Oryctolagus* ?
14. Write notes on *Palaeognathae*?
15. Explain respiration in *Columba livia*?
16. Explain dentition in *Oryctolagus*?
17. Write notes on *Cetacea*? Mention two examples.
18. Comment on *Gruiformes* with examples.
19. Compare the excretory system of vertebrates ?

SECTION C

Answer any *one* question (1× 10 = 10 Marks)

20. Explain the digestive system of *Oryctolagus*?
21. Explain the structure of eye in *Columba*?

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Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
Fourth Semester B.Sc Botany Degree Examination, April 2022
BZL4C04 – Genetics & Immunology
(2019 Admission onwards)

Time: 2 hours

Max. Marks : 60

Section A

I. Short answer questions. Each question carries 2 marks.

1. What is cleft palate?
2. What is dosage compensation?
3. Distinguish between arrhenotokky and thelytoky
4. Write notes on interferons.
5. What are plasmids?
6. What are transposons?
7. What are N K cells?
8. Write briefly about monoclonal antibodies
9. Mention the properties of Tcells
10. What is Grave's Disease?
11. Comment on DNA vaccines
12. What are antigen presenting cells? Give examples.

(Ceiling: 20 marks)

Section B

II. Paragraph questions. Each question carries 5 marks

13. Write an account on any one X linked recessive disorder.
14. Comment on Barr bodies and mention their significance.
15. What are the features of genetic code?
16. Write an account on vectors used in genetic engineering.
17. Mention any ten features of cancer cells
18. Describe the structure of immunoglobulins
19. Explain the properties of T cells and B cells.

(Ceiling: 30 marks)

Section C

III. Essay questions. Answer any one question.

20. Write an essay on chromosomal anomalies and disorders.
21. Illustrate the principles of vaccination and comment on different types of vaccines.

(1x10 = 10 marks)