

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
 Fourth Semester B.Sc Degree Examination, March /April 2019
 BZOL4B04 – Animal Diversity – Chordata Part II
 (2017 Admission onwards)

Time: 3 hours

Max. Marks: 80

Part A

Answer ALL the following questions: Each question carries 1 Marks

1. What is macula leutea ?
2. Mammary glands are modified from
3. Name duct of parotid gland .
4. How many cervical vertebrae are in mammals ?
5. What is corpus callosum ?
6. Name the ape in India .
7. Give the name of phagocytic cells in Liver .
8. What are arbor vitae ?
9. Give the scientific name of African elephant .
10. Lower jaw bone is known as.....

(10 x 1=10 marks)

Part B

Answer any TEN questions: Each question carries 2 Marks

11. What is double circulation?
12. What is tympanic bulla ?
13. Mention the heart beat regulation in *Oryctolagus* .
14. What is pecten ?mention its function ?
15. Give the characters of Chiroptera .
16. Give the mechanism of hearing in *Oryctolagus*.
17. Give the structure of typical vertebrae in *Oryctolagus* .
18. Differentiate between synsacrum and pygostyle ?
19. What are Stringiformes ? give example.
20. Describe syrinx
21. Give the dental formula in Rabbit .
22. What is aqueductus of sylvius ? mention its fuction.

(10 x 2=20 marks)

Part C

Answer any FIVE question. Each question carries 6 Marks

23. Give the characters and adaptations of Cetacea .
24. Explain the digestive glands in *Oryctolagus* .
25. Give the evolutionary significance of Archeopteryx .
26. Write notes on Palaeognathe .Give examples.
27. Explain the structure of *Oryctolagus* eye .
28. Explain prototheria with examples.
29. Describe the typical feather in *Columba* .
30. Write notes on extinct birds .

(5 x 6 =30 mark

Part D

Answer any TWO questions. Each question carries 10 Marks

31. Explain the feathers in *Columba* .
32. Explain respiration and respiratory mechanism in *Oryctolagus*.
33. Compare and contrast the arterial system of *Columba* and *Oryctolagus*.
34. Describe the flight muscles and flight adaptations in *Columba* .

(2 x 10= 20 marks

3

32

3

3

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fourth Semester B.Sc Botany Degree Examination, March /April 2019

BZOL4C04 – Genetics & Immunology

(2017 Admission onwards)

ours

Max. Marks: 64

Give illustrations and figures wherever necessary

PART A

One word questions. Answer all questions. (Each question carries 1 mark)

1. Name the first documented test tube baby.

2. Name the metabolic error in which Phenyl alanine accumulates.

3. Who developed the DNA fingerprinting?

4. Which is the autoimmune disease which affect pancreas?

5. Name the cancer of plasma cells.

6. Name the vaccination of tuberculosis.

7. Who proposed genic balance theory?

8. Which is the substance that enhances immunogenicity?

9. Name the branch of genetics which deals with science of better living.

10. Name the chromosomal characteristics of an individual

(1 x 10 = 10 Marks)

PART B

Answer question: Answer any seven. . (Each question carries 2 marks)

1. What is amniocentesis?

2. Explain different types of human colour blindness.

3. List the characteristics of antigens.

4. Comment on genetic counselling.

5. Give notes on sex differentiation in Bonellia.

6. Give an account of Southern blotting.

7. Explain dosage compensation.

8. Briefly explain the theories of origin of cancer.

9. Explain modern concepts of gene.

10. Mention the role of introns.

(2 x 7 = 14 Marks)

PART C

Paragraph questions: Answer any four (Each question carries 5 marks)

21. Write an account of split genes.
22. What is prenatal diagnosis? Explain different methods of prenatal diagnoses
23. Describe the concept of gene action
24. Write an account on central dogma of molecular biology.
25. What is a vector? Write an account of various vectors used in genetic engineering.
26. What is immunity? Explain different types of immunological organs.

(4x5=20 Marks)

PART D

Essay Questions. Answer any two.(Each question carries 10 marks)

27. Illustrate with experimental evidence explain DNA as the genetic material.
28. Explain the characteristics of cancer cells.
29. Write an essay on the mechanism of r DNA technology.
30. What are immunoglobulins? Explain the structure and add a note on its role.

(2 x 10 = 20Marks)

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(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fourth Semester BSc Psychology Degree Examination, March /April 2019

BZOO(PSY4)C04 – Human Physiology

(2017 Admission onwards)

Time: 3 hours

Max. Marks : 80

PART A

Answer all questions. Each question carries one marks

Choose the correct answer from the following options given below

Lateral hypothalamus is the ----- center.

- A) Hunger B) Satiety C) Thirst D) Punishment

The condition in which the feeling of excessive thirst

- A) adipsia B) polydipsia C) oligodipsia D) hypodipsia

In male sexual act the orgasm is associated with

- A) Erection B) ejaculation C) lubrication D) refraction

Strong stimulation of punishment center causes

- A) Placidity B) Tameness C) Rage D) hunger

Identify the one which is not related to tumor

- A) Benign B) Malignant C) encapsulated D) Thrombus

BMI of a person with 30 Kg body weight and 100 cm height

- A) 20 B) 25 C) 30 D) 35

Fill in the blanks

Cellular dehydration thirst is also known as -----

----- is the onset of menstruation.

----- is the headquarter of limbic system

A brief loss and return of consciousness is known as ----- seizures

----- is a peptide hormone secreted by stomach to stimulate hunger

Primordial gonad develop into ----- in the absence of testosterone

(12x 1 =12 Marks)

PART B

Answer Any seven questions. Each question carries 2 marks

13. Name two anorexigenic factor and its location
14. Differentiate between osmoreceptors and baroreceptors
15. What is ovulation?
16. Kluver bucy syndrome
17. What is stroke?
18. What is ADH, mention its functions
19. Wolffian Duct
20. Hippocampus
21. Multiple sclerosis

(7x 2 = 14 Marks)

PART C

Answer any six questions. Each question carries 5 marks

22. Write a short note on obesity
23. Explain the role of kidney in water regulation
24. Puberty and secondary sexual characteristics.
25. Explain neural centers of emotion
26. Infections of brain with examples
27. Hypovolumic thirst and sodium specific hunger
28. Explain the relationship between head of penis and clitoris.
29. Write a note on neural centers of eating behaviour

(6 x 5 = 30 Marks)

PART D

Answer any three questions as essays. Each question carries 8 marks

30. Discuss about the signals from digestive system which regulate hunger
31. Explain the role of sex hormone in male and female sexual differentiation.
32. Write an essay about limbic system
33. Explain common neuropsychological disorders
34. Explain the physiology of water regulation

(3x 8 = 24 Marks)