

1B1N16109

(Pages :2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester B.Sc Degree Examination, November 2016

ZO1C01 - Animal Diversity & Wild life conservation

(2016 Admission onwards)

Max. Time: 3 hours

Max. Marks : 64

I Answer all questions. Each carries one mark

1. Name the connecting link between Annelida and Arthropoda.
2. What is the secretion of parietal cell?
3. Name the balancing organ of *Penaeus*.
4. Which salivary gland is seen at the base of ear lobe of *Oryctolagus*?
5. Name the excretory organ of *Fasciola*.
6. Name the part modified to form the sucker in *Echeneis*.
7. Identify an organism with brood pouch in male.
8. Name the condition where an animal has two uteri.
9. Who is the publisher of the Red Data book?
10. What do you call preservation of germ plasma in liquid nitrogen?

(10 x 1 = 10 marks)

II. Answer any seven of the following. Each carries 2 marks.

11. What is gastric mill?
12. Write a note on pacemaker of *Oryctolagus*.
13. What are the criteria adopted by R.H. Whittaker in the five- kingdom classification.
14. Write any four adaptations of *Hirudinaria*?
15. What is red tide? Name an organism responsible for it.
16. What are chordates? State their diagnostic features.
17. Comment on living fossil.
18. What is os innominatum?
19. What are rods and cones?
20. What is meant by tetralocular heart? Write its significance

(7 x 2 = 14 marks)

III. Answer *any four* of the following. Each carries 5 marks.

21. With labeled diagrams explain the structure of compound eye of *Penaeus*.
22. Write any five features of the class mammalia.
23. Sketch and label the dorsal view of brain of *Oryctolagus*.
24. Write notes on any two economically important molluscs.
25. What is sustainable development? Write its objectives.
26. What are the identifying features of *Daboia*? (4 x 5 = 20 marks)

IV. Answer *any two* of the following. Each carries 10 marks.

27. Explain the structure of ear of *Oryctolagus*. Add a note on its working.
28. With a suitable example, give an account on the diagnostic features of Phylum Cnidaria.
29. Write the salient features of the class Aves. List the adaptations of *Columba*.
30. Explain the techniques adopted for wild life conservation. (2 x 10 = 20 marks)

IB1N16110

(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
First Semester B.Sc Degree Examination, November 2016
ZO2B01T – Animal Diversity Nonchordata – I
(2016 Admission onwards)

Max. Time: 3 hours

Max. Marks : 80

I. One word questions (Answer all questions)

1. Name the organelle that performs osmoregulation in *Paramecium*.
2. Name a bioluminescent protist.
3. Name an animal that exhibits polymorphism.
4. Name a diploblastic animal.
5. Name a flagellate protist.
6. Give the scientific name of malarial parasite.
7. Name the body cavity present in sponges.
8. Name a pseudocoelomate phylum.
9. Name the disease caused by Blood fluke.
10. Who proposed the Eight Kingdom classification?

(10 x 1 = 10 marks)

II. Paragraph questions (Answer any ten questions)

11. What are cnidoblasts?
12. Explain binomial nomenclature.
13. What is bilateral symmetry?
14. What are organelles? Give examples.
15. What are choanocytes?
16. What is hemixis?
17. Comment on schistosomiasis.
18. What is metagenesis? Give one example.
19. What is phenetics?
20. Describe the structure of a trichocyst.
21. Comment on gemmule.
22. Give two differences between polyp and medusa.

(10 x 2 = 20 marks)

III. Short answer questions (Answer any five questions)

23. Describe the life cycle and pathogenicity of *Wuchereria*.
24. With the help of a labelled sketch, describe the external morphology of *Fasciola*.
25. With the help of diagrams, describe sexual dimorphism in *Ascaris*.
26. With the help of a labelled diagram, describe the morphology of *Paramecium*.
27. List the salient feature of Phylum Rhizopoda giving examples.
28. Describe polymorphism in *Physalia*.
29. List the salient features of Phylum Ctenophora. Give an example.
30. Describe the general characteristics of Class Turbellaria with an example.

(5 x 6 = 30 marks)

IV. Essay questions (Answer any two questions)

31. Give an account of canal system in sponges. Draw suitable sketches.
32. Explain the Five Kingdom classification. Comment on its merits and demerits.
33. Explain the concepts followed in the classification of animals.
34. Describe the salient features of Protista giving examples.

(2x10=20 Marks)

1B1N16091

(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester B.Sc Degree Examination, November 2016

PSY1C01 – Human Physiology

(2016 Admission onwards)

Max. Time: 3 hours

Max. Marks : 80

PART - A

Answer all questions. Each question carries one mark.

- Which of the following is a monosaccharide?
(a) Fructose (b) Sucrose (c) Lactose (d) Maltose
- The region of the chromosome at which a particular gene is located:
(a) Nucleus (b) Locus (c) Centromere (d) Core
- The cells which have the ability to initiate electric signals and to propagate these signals along their processes from one area of the body to another is known as:
(a) Muscle cells (b) nerve cells (c) epithelial cells (d) blood cells
- PKU is caused by the accumulation of
(a) Phenyl alanine (b) Tyrosin (c) Alkaptone (d) Galactose
- Sickle cell anaemia is caused by the replacement of Glutamic acid by:
(a) Alanine (b) Leucine (c) Tyrosine (d) Valine
- Crossing over occurs during which stage of meiosis?
(a) Zygotene (b) Diplotene (c) Pachytene (d) Leptotene

Fill in the blanks

- Genetic constitution of an organism is called _____
- Diagrammatic representation of karyotype is called _____
- Genotypic ratio obtained in the F₂ generation of monohybrid cross is _____
- _____ is the coding sequences in the DNA
- Metacentric chromosomes have _____ at the center
- Cell theory is proposed by _____

(12 x 1 = 12 marks)

PART-B

Answer *any seven* questions. Each question carries two marks.

13. Cytoplasm.
14. What is the cause of Albinism?
15. Karyotype.
16. What is inversion?
17. What is test cross?
18. Define homozygosity.
19. Significance of meiosis.
20. Nucleotides.
21. What is the function of mitochondria? (7 x 2= 14 marks)

PART-C

Answer *any six* questions. Each question carries five marks

22. Discuss sex chromosomal anomalies.
23. Explain the functions of genes and chromosomes.
24. Explain the process of DNA replication.
25. Explain fluid mosaic model of plasma membrane.
26. Write a brief note on epistasis.
27. Comment on different types of muscle tissue?
28. Explain crossing over?
29. Write a note on errors in phenyl alanine metabolism. (6 x 5=30 marks)

PART-D

Answer *any three* questions. Each question carries eight marks

30. With the help of a neat labeled diagram, explain the structure of an animal cell.
31. Which are different types of mutation? Explain.
32. Explain Watson and Crick model of DNA.
33. Explain the process of mitosis.
34. Write an essay on Mendel's work and laws of inheritance. (3 x 8= 24 marks)