UNIVERGUEN ON THE
UNIVERSITY OF EDUCATION "UExam" Semester-II, 2019
BS (Hons) Chemistry/RS Rotony/PS Z
Course Code: ZOOL1112
Subject: Principles of Animal Life-II Roll No. (in fig.)
SECTION: I (MCQ's) Roll No. (in words)
Time Allowed: 15 Minutes Max. Marks: 12 Candidate's Signature.
NOTE: Encircle the correct/ best answer in each of the followings. Each Question carries 1 mark. Use of remover carries zero mark. Cutting and Overwriting is not allowed. Signature of Addl. Supdt.
Q1.
• Chromatin consists of
a) RNA and DNA b) DNA and Histone proteins c) RNA and Histone proteins d) cDNA and Histone
• The scientist known as 'Father of genetics' is:
a) Thomas Hunt Morgan b) Carl Correns c) Gregor Johan Mendel d) bateson and punnett
 When subpopulations become geographically isolated from one another, it is called as
a) Allopatric b) Parapatric c) Sympatric d) Both a and b
 Recombinant genotypes are produced because ofduring
a) Crossing over, prophase 1 b) Linkage, prophase 1 c) Crossing over, anaphase 1 d) Linkage, anaphase
•. Genes existing in three or more forms are known as,
a) Replicates b) Co-dominant alleles c) Duplicate alleles d) Multiple alleles
 When Two Alleles Produce an Intermediate Phenotype, is called.
a) Co-dominance b) Dominance of characters c) Incomplete dominance d) recessive expression • Adinine and guanine are: a) Double ring Purine b) Double ring Pyrimidine c)single ring Purine d)single ring Pyrimidine
 Recessive alleles are those, a) whose expression Can be masked b) Which require homozygous condition to appear phenotypically c) Which are not apparent if genotypically heterozygous d)All of the above
 During chiasmata formation, homologous chromosomes pair up
a) Length wise b) Width wise c) Obliquely d) None of these
 Theory of Natural Selection was presented by a) Lamarck b) Darwin c) Wallace d) Mendal
A character which is expressed in a hybrid is called
a) Dominant b) Recessive c) Codominant d) Epistaltic
• The tetrad consists of:
a) 2 adjacent chromosomes b) 2 sister chromosomes c) isochromosomes d) 2 homologous
chromosomes

UNIVERSITY OF EDUCATION

"UExam" Semester-II, 2019 BS (Hons) Chemistry/BS Botany/BS Zoology, Session:2018-2022

Course Code: ZOOL1112

Subject: Principles of Animal Life-II

Time Allowed: 75 Minutes

Max. Marks:

3x5 = 15

Section II (Short Answer)

Q.2- Write short answers of the following.

i. Neatly draw and label all events of mitosis.

ii. What is sex linked inheritance? Give an example.

iii. Define Mendelian patterns of inheritance What is meant by Genetic Drift?

iv. What is meant by social behavior of animals?

v. Define mutation and its types.

Section III (Essay Type)

Answer the following Questions

6x3 = 18

Q.3:- What is meant by speciation? Describe its three types.

O.4:- Give detailed account on Hardy-Weinberg Theorem?

Q.5:- Describe the Modes of selection for certain traits in a population, when there is a range of phenotype.

UNIVERSITY OF EDUCATION

"UExam" Semester-IV, 2019 BS Zoology Session:2017-21

Cou	rse (Code:	ZO	OL2	113
Sub	iect:	Anin	al l	Diver	sitv-II

Time Allowed: 15 Minutes

SECTION: I (MCQ's)

NOTE: Encircle	the correct/	best answer	in each of	the following	gs. Each
Question carries	1 mark. Us	e of remover	carries zer	o mark. Cutti	ing and

O

uest		st answer in each of the followings. E remover carries zero mark. Cutting a		Signature of Addl. Supdt.			
Ç	21.						
	A			At a second second			
•		upon external heat source to m		ctions, so they are:			
	a) Ectothermic		adothermic	1			
	c) Variable in thermoregulation d) Unable to survive on land						
•		da of class reptilia is also know		N Constalla			
	a) Testudines b) R		uamata	d) Crocodylia			
•		g to Order Carnivora, who feed	-				
	a) Lion	b) Bear	c) Tiger	d) Sea lion			
•	hkidney known as:			*			
•	a) Collecting duct		Loop of henle d)				
•	The most obvious fe	eathers are which cover	the body, wings, and	tail			
	a) Down feathers	b) Filoplume	c) Contour feathers	d) Hair-like			
•	Young birds who are	e completely dependent on their	parents for food and	are helpless at			
	hatching are known	as:					
	a) Precoceal	b) Polyandrous	c) Monogamous	d) Altricial			
•	Cocoons open only a	at the nares or the mouth and in	experimental situation	s, reduce water			
	loss over no	on cocooned individuals.					
	a) 20 to 50%	b) 20 to 30%	c) 40 to 50%	d) 10 to 30%			
•	The ventral portion of	of the shell in testudines is the					
	a) Belly	b) Carapace	c) Plastron	d) All			
•	The development of	sexual maturity in a larval body	y form is called				
	a) Parthenogenesis	b) Coevolution	c) Paedomorphosis	d) Morphogenesis			
•	Tunicates or sea squi	irts are members of the chordate	e subphylum				
	a) Urochordata	b) Cephalochordata	c) Enteropneusta	d) Pterobranchia			
•	Sharks skin is covere	ed with					
	a) Ctenoid scales	b) Placoid scales	c) Dermal scales	d) Cycloid scales			
•	•	athans class include	•				
	a) Myxini	b) Cephalaspidomorphi	c) Placodermi	d) Chondrichthyes			
	•	, F	-,	torywyg. ₹. Pistorywyg			

Max. Marks: 12

08

Roll No. (in fig.)_____ Roll No. (in words)____

Candidate's Signature.

UNIVERSITY OF EDUCATION "UExam" Semester-IV, 2019 BS Chemistry Session:2017-21

Course Code: CHEM2113 Subject: Industrial Chemistry

Time Allowed: 100 Minutes.

Max. Marks:

Section II (Short Answer)

Q.2- Write short answers of the following.

3x6 = 18

42

- (i) What is meant by raw materials?
- (ii) Give a brief description of fuel industry.
- (iii) Define unit operations with examples.
- (iv) What are the applications of hydrochloric acid?
- (v) Describe in short the industrial processes for caustic soda.
- (vi) Write a short note on industrial chemistry.

Section III (Essay Type)

Answer the following Questions

6x4 = 24

- Q-3: a) Explain the manufacturing processes of sulphuric acid with the help of a flow sheet diagram.
 - b) What are the applications of sulphuric acid in daily life?
- Q-4: Describe the manufacturing of cement in industry along with flow sheet diagram.

 Write the applications of cement in daily life also.
- Q-5: How the oxalic acid can be manufactured? Draw the flow sheet diagram also. Write the applications of oxalic acid.
- Q-6: Write a comprehensive note on petroleum industry.