SUBJECT CODE NO:- L-2019 FACULTY OF SCIENCE

B.Sc. T.Y. (Sem-V) Examination Oct/Nov 2018 Zoology Paper- XV (Ecology)

[Time:	: 1:30 Hours]	[Max.Marks:50]
N.B	Please check whether you have got the right question paper. i) Attempt all questions. ii) Illustrate your energy with suitable lebelled diagram.	
	ii) Illustrate your answer with suitable labelled diagram.	
Q.1	What is commensalism? Describe its types with suitable examples	20
	OR	
	What is ecology? Explain its basic concept and terminology.	
Q.2	Give an account of characteristics of community.	20
	Write a short note on any four of the following (a) Productivity (b) Population density (c) Food Web (d) Age distribution (e) Desert ecosystem (f) Natality	
Q.3	Select and write correct answer from the given alternatives in each sub-question.	10
	(1) The competition exclusion principle is proposed by (a) E. Haeckel (b) Odum (c) Gauze (d) Clarke	
9, 20, 6	(2) The range of temperature within which living organisms carry on their life activity	ties is known as
	(a) Ecoton (b) Biokinetic zone (c) Niche (d) Epilimnion	
500 p	(3) Branch of ecology concerned with the study of individual organism is (a) Autecology (b) Palaeoecology (c) Synecology (d) Biocoenos	sis
	(4) The carrying capacity of a population is determined by its (a) Natality (b) Mortality (c) Population growth rate (d) Lin	niting resources

(5) The term niche was first coined by	8,4,4,0,0,4,0,0,6
(a) Grinnell (b) c. Elton (c) Odum	(d) Clement
(6) Final terminal community in equilibrium stage is called as (a) Dune (b) Crest (c) Apex (d) Cli	
(7) Which one of the following is not a functional unit of an e	cosystem
A / AO 1	
(a) Productivity (b) Energy flow (c) Stratific	cation (d) Decomposition
(8) Trophic levels in ecosystem is formed by (a) Consumers (b) Organisms linked in food chai	n (c) Producers (d) None
(9) The salinity of marine water is rather constant that is about	
	7 - 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(a) 1.7% (b) 17% (c) 35% (d)	3.3%
(10) The pyramid of energy in any ecosystem is (a) Always upright (b) Inverted (c) Multidire	ectional (d) All above

SUBJECT CODE NO:- L-2020 FACULTY OF SCIENCE

B.Sc. T.Y. (Sem-V) Examination Oct/Nov 2018 Elective Paper Zoology Paper-XVI (A) Fishery Science - I

[Time	: 1:30 Hours]	[Max.Marks:50]
N.B	Please check whether you have got the right question paper. i) Attempt all questions. ii) Illustrate your answer with suitable labelled diagram.	
Q.1	Give detail account of the general characters and outline classification of fishes OR	20
	Write in detail about status of fresh water fisheries (past, present, future)	20
Q.2	Explain in detail Mackerel fishery OR	20
	Write short Notes on any four of the following a) Chilika lake fisheries b) Ribbon fish fisheries c) Trout fisheries d) Mullet fish fisheries e) Role of chlorophyll pigment in remote sensing f) Pomfret fisheries	20
Q.3	Select and Write correct answer from the given alternatives. 1. Cod liver oil is rich in	10
	The common name of Sardinella longiceps is (a) Mackerel (b) Trout (c) Bombay duck (d) Oil Sardine	
	3. Pulicat lake is	nd b
	4. Study of fishes means	
	5. Collection of fish from natural habitats called	sh fisheries
	6. Jayakwadi Reservoir is constructed on river. (a) Koyana (b) Bhima (c) Godavari (d) Krishna	

١.	Diackish water is
	(a) Saline water (b) Ecotone of marine and fresh water habita
	(b) Rich in nutrients (d) all the above
8.	National fisheries Development board is situated at
	(a) Delhi (b) Mumbai (c) Chennai (d) Hyderabad
9.	Objectives of remote sensing technology are
	(d) All the above.
10.	. The common name of clarias batrachus.
	(a) Milk fish (b) Ribbon fish (c) Magur (d) Sea bass

SUBJECT CODE NO:- L-2020 FACULTY OF SCIENCE

B.Sc. T.Y. (Sem-V) Examination Oct/Nov 2018 Elective Paper Zoology Paper-XVI (B) Animal Culture- I

[Time:	1:30 Hou	rs] [Max.Mark	s:50]
N.B		Please check whether you have got the right question paper. i) Attempt all questions	3000
		ii) Illustrate your answer with suitable labelled diagram.	/PS
0.1	***		20
Q.1	Write an e	essay on systematic position and distribution of different honey bees OR	20
	Write in de	etail about polymorphism and colony organization in honey bees.	20
Q.2	Write an e	essay on life cycle of honey bees	20
		OR	
	Write shor	rt note on any four of the following:	20
		st differentiation	
	b) Ne	esting behavior	
		vision of work	
	d) Po	llination by honey bees	
		ngal diseases of honey bees	
		omb construction in bees	
Q.3	Select and	Write correct answer from the given alternative in each sub questions.	10
	1. Th	e Queen is in honey bees	
	(a)	Fertile male (b) Fertile Female (c) Infertile female (d) infertile male.	
	2. La	rva of honey bee is also known as	
6		Grub (b) adult (c) male (d) pupa	
	3. Ma	ass flying of honey bees leaving hives is known as	
	(a)	absconding (b) dancing (c) Faning (d) Swarming	
		earine disease in honey bees is caused due to	
	(a)	Parasitic mite (b) Predators (c) Nosema (d) Amoeba	
		ropean foul brood in honey bees is caused due to	
	(a)	Virus (b) bacteria (c) Protozoa (d) Porifera	
30,67,67	6. Pro	otein content of honey is	
ABOOK	AN NO NO W	3-4% (b) 5-6% (c) 1-2% (d) 9-10%	

/.	(a) drone	(b) Queen	(c) g	- grub	(d) Worker	
8.	Bee Venom is	() [(c) B-tox		a toxin
9.	. , 1	faid to the Lar (b) Queen	va which	` ,		
10	Bee glue cont (a) 40%	() [` '	_ resin and		

SUBJECT CODE NO:- L-2020 FACULTY OF SCIENCE

B.Sc. T.Y. (Sem-V) Examination Oct/Nov 2018 Elective Paper Zoology Paper-XVI (C) Entomology – I

[Tim	e: 1:30 Hours]	[Max.Marks:50]
N.B	Please check whether you have got the right question paper. i) Attempt all questions. ii) Illustrate your answer with suitable labelled diagram.	
Q.1	Describe general characters of order Lepidoptera and Diptera with suitable example OR	20
	Explain systematic position and external morphology grasshopper.	20
Q.2	Write an essay on Apiculture. OR	20
	Write short notes on any four of the following (a) Mosquito (b) Preservation of Insect (c) Economic importance of lac. (d) Holometabolus metamorphosis (e) Life cycle of silk worm (f) Pediculus	20
Q.3	Select and write correct answer from the given alternatives in each sub questions. 1. Lac is secreted by the	10
Á	2. Govt. of India constituted the central silk Board in (a) 1960 (b) 1948 (c) 1949 (d) All of these	
10 0 V	3. The queen of Indian bee is capable of laying upto eggs daily. (a) 1000 (b) 2000 (c) 500 (d) None	
	4. Pebrine disease cause to (a) Silk worm (b) Bee worm (c) Lac worm (d) None	
	5. Ovipositor is Found in (a) Male (b) Female (c) Queen (d) Drone	
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	6. Honey is collected in (a) Honey comb (b) Broad Chamber (c) Super (d) Bottom brood	

/.	(a) Lepidoptera	_	noptera	(c) Coleopteran	(d) Diptera
3.	Moulting is calle	d	_	, so	
	(a) Instar	(b) Pupa	(c) Naids	(d) Ecdysis	
9.	Product of Silkw	orm			
	(a) Honey (b) Wax	(c) Silk	(d) All of the	se
10	. Ecdysone hormo				
	(a) Fertilization	(b) Mot	nung (c) O	Oviposition (d) A	All above

SUBJECT CODE NO:- L-2020 FACULTY OF SCIENCE

B.Sc. T.Y. (Sem-V) Examination Oct/Nov 2018 Elective Paper Zoology Paper-XVI

(D) Parasitic Protozoa and Helminthes-I

[Tim	e: 1:30 Hours]	[Max.Marks:50]
N.B	Please check whether you have got the right question paper. i) Attempt all questions. ii) Illustrate your answer with suitable labelled diagrams.	
Q.1	Define parasitism. Describe the types of parasites	20
C	OR	(A) (A) (A) (A)
	Explain in detail life cycle of P. Vivax	20
Q.2	Describe pathogenicity, Treatment and control measures of trypanosome gambiense OR	20
	Write short notes on any four of the following a) Trophozoite of Trichomonas b) Host parasite relationship c) Exflagelation d) E. gingivalis e) Pathogenicity of hiardia f) Sporocyst of Eimeria	20
Q.3	Select and write correct answer from the given alternatives in each sub questions. 1 was coined the phylum name 'protozoa (a) Robert Grant (b) Gold fuss (c) Gegenbaur (d) Lamarck	10
	2. Which of the following has only one host (a) E. Coli (b) T. gambiense (c) T. Solium (d) P. vivax	
	 3. Malaria is transmitted	
	4. Trypanosoma finally invades (a) Cerebrospinal fluid (b) Brain (c) Liver (d) Blood	
	5. Trichomonas vaginalis Transmitted disease (a) Sexually (b) water (c) Air (d) None	

о.	The Best treatment for	Coccidiosis		
	(a) Antiviral drug	(b) Antibiotics	(c) Sulpha drug	(d) Antipyretic
7.	Giardia was described by (a) Ronald Ross (b)		(7.5)	
8.	Trypanosome requires_ (a) One (b) Two		V / - (0) V / (0) 0	
9.	In sexual cycle of emes	is involving		
	(a) Gametogony		(c) both a & b	(d) None of these
10.	Scientific name of Tset	se fly		
	(a) Aedes Egyptii	(b) Glossins Palpa	ılis (c) Culexan	opheles (d) None

SUBJECT CODE NO:- L-2020 FACULTY OF SCIENCE

B.Sc. T.Y. (Sem-V) Examination Oct/Nov 2018 Elective Paper Zoology Paper-XVI

	(E) Computer Application & Lab Technology-I	
[Tim	e: 1:30 Hours]	[Max.Marks:50]
N.B	Please check whether you have got the right question paper. i) Attempt all questions ii) Illustrate your answer with suitable diagram.	
Q.1	What are storage devices? Explain with reference to input devices. OR	20
	Explain the history of computer and Write any two application to Biology.	20
Q.2	What is an operating system? Discuss windows XP in detail. OR	20
	Write short note on any four of the following. a) Printer b) Keyboard c) C constants d) MS-Word e) ROM f) Unix	20
Q.3	Select and write correct answer from the given alternative in each sub-questions. 1. Which of the following storage device can store maximum amount at data a) Optical disk b) Hard disk c) Floppy disk d) Compact disk 2. Operating System is a a) Application software b) System software	10
	 c) Computer Language d) Application hardware 3. Which key on keyboard can be used to cancel all. a) F₁ b) TAB c) ESC d) F₂ 	

- 4. When any file or folder is deleted it will parked in _____
 - a) Memory
 - b) My Computer
 - c) My Network
 - d) Recycle bin
- 5. Which of the following device is not an output device
 - a) Printer
 - b) Scanner
 - c) Touch Screen
 - d) Flat Screen
- 6. Which of the following is not an operating system.
 - a) Windows-95
 - b) Windows-96
 - c) Windows-98
 - d) Windows-2000
- 7. Full Form of WAN is
 - a) Word area Network
 - b) World area Network
 - c) Wide area Network
 - d) Window area Network
- 8. In MS-Excel, MS stand for
 - a) Master Server
 - b) Micro Server
 - c) Microsoft
 - d) Mega Series
- 9. To paste copied matter from one place to another in windows, we use the short –cut key as
 - a) Ctrl + S
 - b) Ctrl +V
 - c) Ctrl + P
 - d) Ctrl + X
- 10. Folder may contain
 - a) Folders
 - b) Files
 - c) Only file
 - d) File and folders

SUBJECT CODE NO:- L-2020 FACULTY OF SCIENCE

B.Sc. T.Y. (Sem-V) Examination Oct/Nov 2018 Elective Paper Zoology Paper-XVI F) Biotechnology-I

[Time	e: 1:30 Hours] [Max.N	Marks:50]
N.B	Please check whether you have got the right question paper. i) Attempt all questions. ii) Illustrate your answer with suitable labelled diagram.	
Q.1	Define Biotechnology? Explain scope and importance in detail OR	20
	What is genomic library? Explain construction CDNA library	20
Q.2	Define restriction enzyme? Give an account on theory of nomenclature and its type. OR	20
	Write short note on any four of the following a) Micro injection b) Gene cloning application c) Colony blotting d) Plasmid e) Isolation of DNA from cell f) Polymerase chain reaction	20
Q.3	Select and Write correct answer from the given alternatives in each sub questions. 1. A term enzyme was introduced by (a) Mendel (b) Aristotle (c) Kuhne (d) Freschney 2. The virus mediated gene transfer using genetically modified bacterio phages is called (a) transfection (b) transduction (c) transformation (d) Conjugation	
	3. Enzymes are specific (a) Substrate (b) Coenzyme (c) Metal (d) Ion	
	4. The ability of cells to taken up DNA Fragments from surrounding is called (a) transfection (b) transduction (c) transformation (d) conjugation	
	5. RNA with enzymatic action is called (a) Isozomes (b) metazomes (c) ribozyme (d) Catazymes	

0.	(a) Agarobacterium tumefaciens (b) Agarobacterium radiobacter (c) Psuedomonas putida (d) Thermus aquaticus
7.	Oxidoreductases are involved in reaction. (a) Isomerization (b) hydrolyzation (c) Formation of Covalent bond (d) redox
8.	The removal of tumor causing gene from T ₁ plasmid is (a) Gene replacement (b) Disarming (c) Insertional activation (d) Gene displacement
9.	Abzymes are that catalyze chemicals reactions. (a) Antigen (b) Antibiotics (c) Zumogens (d) None
10.	. Chemicals used for gene transfer methods include

SUBJECT CODE NO:- L-2020 FACULTY OF SCIENCE

B.Sc. T.Y. (Sem-V) Examination Oct/Nov 2018 Elective Paper Zoology Paper-XVI (G) Dairy Science - I

[Time:	[Max.Marks]	:50]
N.B	Please check whether you have got the right question paper. i) Attempt all Questions. ii) Illustrate your answer with suitable labelled diagram.	860
Q.1	Write an essay on growth and Destruction of microorganisms in milk, And classify the microorganisms of milk.	20
		• •
	Describe method of buying, collection, cooling and transportation of milk.	20
Q.2	Define Dahi, its composition and method of Dahi production, Add the food and nutritive value of Dahi.	20
	OR CERTIFICATION OR CERTIFICATION OF THE CONTRACT OF THE CONTR	
	Write short note on any four of following (a) Grading of milk. (b) Properties of milk. (c) Storage of milk. (d) Importance of Indian Diary (e) Method of Channa Production (f) Defect of Khoa.	20
Q.3	Select and write correct answer from the given alternatives in each sub questions.	10
	 cause (s) off flavors in milk such as (a) Chemical adulterants (b) Microorganisms (c) Sediment (d) Weeds Which is not a diary product 	
	(a) Dahi (b) Channa (c) Khoa (d) Isenglass	
	3. Which of the following are lactogenic hormone.(a) Galactogen (b) Prolactin (c) Both a & b (d) FSH	
	4. Pasteurized milk is (a) Fresh milk (b) Packed milk (c) Skimme milk (d) None of these	
	5. Cream is a fat containing fraction separated from milk by (a) Centrifugation (b) Pasteurization (c) Condensation (d) Rotation	

6. Organism present in the curd are mainly(a) Streptococci(b) lactobacillus casie(c) Both a				(c) Both a & b	(d) None of these	2	
	(u) bueptococci	(6) Ide100de	mas casic	(c) Both a & b	(a) None of these		
7.	Khoa is used in						
	(a) Gulab Jamun	(b) Pedha	(c) Barfi	(d) All of these		2	
Q	Primary protein in	milk is				16	
ο.	* *		(a) I ***		25 8 6 2 V 4 8 8 6 6 7 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 6 6 7 6 6 6 6 6 7 6 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 6 7 6 6 6 7 6 7 6 6 6 7 6 7 6 6 7		
	(a) Casein	(b) Tryptophan	(c) Lys	ine (d) Arginino		, X	
9.	A dairy farmer wh	o delivers 'Gra	de A' milk to	the processing plan	t is known as the	3	
	(a) Handler (b)	o) Producer	(c) Order ta	ker (d) Consum	er	F	
10.	The Tanker of mil milk plant.	k must be check	ked for which	of the following be	fore it can be unloaded a	t	
	-	(b) Lastage		(1) DCT	11/15/06/19/06/19/06		
	(a) Antibiotics	(b) Lactose	(c) Fat	(d) BST			

SUBJECT CODE NO:- L-2020 FACULTY OF SCIENCE

B.Sc. T.Y. (Sem-V) Examination Oct/Nov 2018 Elective Paper Zoology Paper-XVI (H) Poultry Science-I

[Time	e: 1:30 Hours] [Max.Mark	s:50]
N.B	Please check whether you have got the right question paper. i) Attempt all questions. ii) Illustrate your answer with suitable labelled diagram.	\$ 60 CD
Q.1	Give a detailed account of classification of English and American poultry breeds. OR	20
	Describe digestive system of poultry breeds.	20
Q.2	Give an account of management of Incubators	20
	Write short notes on any four of the following (a) Nutritive value of egg (b) Method of selection (c) Humidity (d) Fertility (e) Mating (f) Control.	20
Q.3	Select and write correct answer from the given alternatives in each sub questions. 1. American class of birds (a) Rod he Island Red (b) Plymouth Rock (c) Vividot (d) All of these	10
	 The hens undergo moulting from (a) October to January (b) July to August (c) February to May (d) None Fowl cholera is caused by (a) Filaria (b) Virus (c) bacteria (d) Fungus 	
	4. The domestic fowl is (a) hallus domesticus (b) Wite Plymouth rock (c) Rhode Island Reds (d) New Hamsphire	
	5. The testes of poultry are located (a) Below kidneys (b) Above kidneys (c) Scrotum (d) None	
	6. Liquid whole egg of poultry contains albumen (a) 62-70% (b) 90-94% (c) 61-64% (d) 72-80%	

7.	Average carbohydrate in poultry egg is
	(a) 0.45-0.47% (b) 0.50-0.55% (c) 0.35-0.45% (d) 0.65-0.67%
8.	A poultry meat is a good source of Vitamins.
	(a) Vit C,K & E,B (b) Riboflavin, nicotinic acid, Vit A & Vit D (c) A&B (d) C&D
9.	Dressing is the process of
	(a) Cleaning poultry meat (b) Preparing fowls
	(c) Cutting poultry for meat for competition (d) All above
10	. Calcium contents in poultry egg is
	(a) 20 (b) 30 (c) 40 (d) 50

SUBJECT CODE NO:- L-2035 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. F.Y. (Sem-I) Examination Oct/Nov 2018 Zoology Paper-I Protozoa to Annelida

[Time:	1:30 H	Hours] [Max.Marks	:50]
N.B		Please check whether you have got the right question paper. 1. Attempt all questions. 2. Illustrate your answer with suitable labeled diagram.	
Q.1	Descr	ibe in detail life cycle of Entamoeba histolytic.	20
	Explai	n in detail structure of Taenia solium.	20
Q.2	Descri	be in detail different types of canal system in Sponges. OR	20
	Write	short notes on (any four)	20
	b) c) d)	Metazoan Nephredia Anterior sucker of leech General characteristics of Annelida Erythrocytic schizogony. Binary fission of Euglena	
Q.3	Select	and write correct answer from the given alternatives in each sub questions	10
		Entamoeba histolytica is a a) Polygenetic parasite b) digenetic parasite c) monogenetic d) none of these	
	2)	Sporogamy of malarial parasite occurs in: a) Stomach of mosquito b) Liver of man c) RBC of man d) none of these	
	3)	Flagellated cells in sponges are called: a) Pinacocytes b) Choanocytes c) Porocytes d) Thesocytes	
	4)	The number of tentacles of obelia medusa is: a) 8 b) 16 c) 32 d) 64	
	5)	Miracidium is one of the stage in the development of: a) Ascaris b) Taenia solium c) Fasciola hepatica d) Planaria	

0)	Bladder worms i	s found in			8 8 5 6 6 6 6	5 6 6 6 C
	a) Human musc	les b) Musc	les of cow or	pig	c) Human faces	d) Soil
7)	Contractive vacu	-	•		7, \(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}{2}\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\frac{1}2\) \(\fr	
	a) Digestion	b) excretion		c) osmoregulati	ion d) assim	ilation
				2000		300000
8)	How many cham	bers are found in	the crop of le	eech;		
	a) Six	b) eight	c) nine	d) ten		
0)	T TT: 1: : .1		6 -99			7 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
9)	In Hirudinaria the	-	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
	a) Digestion	b) excretion	c) r	espiration	d) reproduct	tion
			3, 20, 20	2,000,000		
10	Organelle of defe	ence in Parameciu	ım are:			9 9 5 5 5 5 T
	a) Nematocyst	b) Oocys	t c) Sr	orocyst	d) Trichocyst.	5,85

SUBJECT CODE NO:- L-2038 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. S.Y. (Sem-III) Examination Oct/Nov 2018 Zoology Paper-VII Vertebrate Zoology

[Time	: 1:30 Hours]	[Max.Marks:50]
N.B	Please check whether you have got the right question paper. 1. Attempt all questions. 2. Illustrate your answer with suitable labeled diagram.	
Q.1	Write an account on parental care in amphibia.	20
	Describe Digestive system of scoliodon.	20
Q.2	Give an account on migration in birds	20
	Write short note on (any four)	20
	a) Cleavage of chickb) General characteristics of mammals.	
	c) Gastrulation in chick	
	d) External character of ratus satus.	
	e) Poisonous and non-poisonous snake	
	f) Structure of mammalian heart.	
Q.3	Multiple choice questions.	10
	 1. The body of all vertebrate is a) Radially symmetrical b) Bilaterally symmetrical d) Biradially symmetrical 	
	2. In fishes the cranial nerves are	
	a) 10 pairs b) 8 pairs c) 6 pairs d) 12 p	pairs
	3. Bidder's canal in frog is found in a) Liver b) Kidney c) testis d) ovary	
	4. The poison gland of a poisonous snake are modifieda) Salivary glandsb) buccal glandsc) palatine glands	d) lacrimal glands
	5. In birds the bones are characterized by a) Having air cavities b) being light in weight c) spongy nature but strong d) all of these	

2018

о.	which of following	group of mammais, the p	placenta is absent.	10/V/ 4/V/ 6/20/V/ 6/
	a) Prothesia	b) Metathesia	c) Euthesia	d) theria
7.	Jaws are absent in a) Mammals	b) cyclostomata	c) fishes	d) Sciliodon
8.	Thermo receptors of	scoliodon are		
	a) Stato-acoustic or		nast organs c) A	Air-bladder
	d) Ampullae of	•	ids Organs C) L	MI-Diaduck
9	The egg of frog is	30 B		
٠.	a) Isolecithal	b)Telolecithal	c) Centrolecithal	d) Alecithal
	a) Isoleciulai	b) I ciolectulal	c) Centrolectular	u) Aleciulai
10.	. Mammals are			6 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	a) Eurythesmal	b) Homeiothermal	c) Poikilothermal	d) Stenothermal

SUBJECT CODE NO:- L-2039 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. S.Y. (Sem-III) Examination Oct/Nov 2018 Zoology Paper-VIII Genetics- II

[Time	: 1:30 Hours]	[Max.Marks:50]
	Please check whether you have got the right question paper.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
N.B	 Attempt all questions. Illustrate your answer with suitable labeled diagram. 	
Q.1	Write in detail the process of translation of gene.	20
	OR	30 m
	Explain sex linked inheritance in man with suitable example.	20
Q.2	Define microbial genetics. Write an account on transformation mechanism.	20
	Write short notes on any four of the following	20
Q.3	 a) Dizygotic twins. b) Cosmid vector. c) Turner's syndrome. d) Gene therapy e) PKU f) Wobble hypothesis Multiple choice questions.	10
Z.	The process of mRNA. Synthesis in DNA template. Is known as a) Transcription b) Translation c)Transduction	d) Transformation
	2) Numbers of autosome in human sperm is a) 11 b)22 c)44 d) 45	
	3) Combination of plasmid DNA and desired gene is called a) r DNA b) C-DNA c) RNA	l) T-DNA
	 4) Genes for color blindness in man are located on a) Y chromosome only b) X chromosome only c) Either X or Y chromosome d) on both X and Y chromosome. 	

2018

Genetic drift		2000	0,800,000,000
a) Is an orderly cha	ange in gene frequencies?		
b) Produces greates	st fluctuations in large popu	ılation.	
c) Is the random c	hange in gene frequency?		
d) Has nothing in c	ommon with in breeding.		
The codon is found	in		
a) DNA	b) rRNA	c) tRNA	d) mRNA
	.8		
a) Interferon	b) Insulin	c) Penicillin	d) somatotrophin.
Electrophorosis is a	tachnique used in DNA fir	garnrinting halps to so	proroto a de la companya de la compa
a) DNA segment	b) cells from DNA	c) fissues	d) RNA from DNA
Red blindness is cal	led 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
		c) Deuteranonia	d) Albinism
a) Tright officialess	b) Trotonopia	c) Bedieranopie	d) / Hollinshi
) Genes are			9986
a) Lipoproteins	b) Polynucleotides	c) glycoproteins	d) Histones
	a) Is an orderly chab) Produces greates c) Is the random cd d) Has nothing in co. The codon is found a) DNA The first licensed dra a) Interferon Electrophoresis is a a) DNA segment Red blindness is cal a) Night blindness Genes are	a) Is an orderly change in gene frequencies? b) Produces greatest fluctuations in large population of the random change in gene frequency? d) Has nothing in common with in breeding. The codon is found in a) DNA b) rRNA The first licensed drug produced through genetally a) Interferon b) Insulin Electrophoresis is a technique used in DNA firmally DNA segment b) cells from DNA Red blindness is called a) Night blindness b) Protonopia	a) Is an orderly change in gene frequencies? b) Produces greatest fluctuations in large population. c) Is the random change in gene frequency? d) Has nothing in common with in breeding. The codon is found in a) DNA b) rRNA c) tRNA The first licensed drug produced through genetic engineering is a) Interferon b) Insulin c) Penicillin Electrophoresis is a technique used in DNA fingerprinting helps to sea) DNA segment b) cells from DNA c) Tissues Red blindness is called a) Night blindness b) Protonopia c) Deuteranopia Genes are

SUBJECT CODE NO:- L-2155 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. T.Y. (Sem-VI) Examination Oct/Nov 2018 Zoology Paper- XIX (601) (Evolution)

[Time:	1:30 H	[ours]		[Max.Marks	:50]
N.B		Please check whether you have got 1) Attempt all questions. 2) Illustrate your answer with suitab			\$ 60 C
Q.1	What i	is organic evolution? Explain anatomical evider OR	nce of evo	olution.	20
	Write	an essay on natural selection theory.	500V		20
Q.2	What i	is Macro evolution? Explain its concept silent for OR	eatures ai	nd mechanisms with suitable example.	20
	a)b)c)d)	short notes on any four of the following. Foot prints Petrifaction Parapatric speciation Isolation Genetic drift Allopatric speciation			20
Q.3	Select	and write correct answer from the given alterna	atives in e	each sub questions.	10
	1)	Mutation may be described as	7,06,69		
	5	a) Continuous genetic variation	()	Phenotypic change	
	10 C	c) Discontinuous genetic variation	d)	Change due to hybridisation	
-	(2)	Evolution of a species is based upon sum total	of adapt	ive changes preserved by	
3	1200	a) Natural selection	b)	Isolation	
×9,9,7		c) Speciation	d)	Human conservation	
	3)	Sympatric speciation develops reproductive is	olation w	vithout	
		a) Geographic barrier			
	9 5 5 C	c) Barrier to gene flow		Genetic change	
	4)	Lamarck Theory organic evolution is usually land (a) Natural selection b) Inheritance of acquired characters c) Descent with change d) Continuity of fermplasm	known as		

5)	Study for	ossils is known as			2,00,00	V 3 3 3 0 5 6
	a)	Anatomy		b)	Ornithology	0,45,5000
	c)	Paleontology		d)	Herpetology	
		•			31 F 60 0 1 F 3 7	
6)	Speciati	on is process	•		9, 0, 4, 7, 4, 0, 0, V	\$3.700 B B B B B B B B B B B B B B B B B B
	a)	Reversible	b) Irrevers	sible	c) Divergent	d) None
7)	The bio	chemical theory of or	igin of life	was given by -		
	a)	Darwin	b) Malthus		AI oparin	d) Haldane
8)	a)b)c)	theory called synthet Genetic and chromos Genetic recombination Reproductive isolation All above	somal muta on and natu	tions	pased on	
9)	Vermifo	orm appendix in man	is	10 3 1 400)		
	a)	Vestigial organ		(b)	Analogous organ	
	c)	Functional organ		d)	Homologous organ	100
10)	The phe	nomenon of non-fert	ilization of	OVUM by spe	erm in any species is	s known as
Í	-	Sex barrier			Morphological bar	
	c)	Physiological barrier			None of above	

SUBJECT CODE NO:- L-2156 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. T.Y. (Sem-VI) Examination Oct/Nov 2018 Zoology Paper-XX (602) (A) Fishery Science- II

[Time:	1:30 Hours]	[Max.Marks:50]
N.B	Please check whether you have got the right question paper. 1) Attempt all questions.	
	2) Illustrate your answer with suitable labelled diagram.	
Q.1	What is sewage water? Describe in detail sewage fed fish culture.	20
	OR Describe in detail artificial breeding by Hypophysation.	20
Q.2	Explain in detail fish processing methods and add a note on value added products. OR	20
	Write short notes on any four of the following:	20
	i) Cast net	
	ii) Gill net	
	iii) Catamaran	
	iv) HACCP	
	v) Fish pickle, curry, meal kit	
	vi) Boat	
Q.3	Select and write correct answer from the given alternatives in each sub questions.	10
	1) Rearing ponds are used for culturing of carps.	
	a) Fingerlings b) Fry c) seeds d) Hatchlings	
	2) One of the following is viral disease	
, F.	a) Dropsy b) Saproligniasis c) IPN d) All the above	
(A. A.)	3) Dugout canoes are used for fishing in	
50 CO	a) Esturies, backwaters and rivers b) Marine waters & fresh wat	ers
	c) Brackish water & Marine waters d) All the above	
	4) Pituitary doses are injected	
	a) Intraperitonealy b) Intramuscularly	
	c) Both a & b d) None of these	
25 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5) The bacterial disease 'dropsy' affecting farmed fish could be effectively tre	ated using
2000	a) Asta Xanthin in feed b) Terramycin in feed	3
18 8 8 8 9 V	c) Benzene in feed d) Estradial in feed	

6) In fish spoilage the term 'Rank' is synony	mous	s with
a) Place in sequence	b)	Hierarchical order
c) Rancidity	d)	Autolysis
7) Which type of fish is best suited for smoki	ing	
a) Lean and small fish	b)	Fish with high fat
c) Fish with low fat	d)	Fish with moderate level of fat
8) Which one of the following is a selective s	gear	
a) Trawl net	b)	Trammel net
c) Shore seine	d)	Gill net
9) Select an organic manure from below.	168	
a) Cow dung	b)	Urea
c) Super phosphate	d)	Tea seed cake
10) Which chemical used for preserving.	A CO	
a) Formalin	b)	Iodine
c) Glycerin	d)	Alcohol

SUBJECT CODE NO:- L-2156 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. T.Y. (Sem-VI) Examination Oct/Nov 2018 Zoology Paper-XX (602) (B) Animal Culture- II

[Time	e: 1:30 H	lours]	[Max.Marks:50]
N.B		Please check whether you have got the right question paper. 1) Attempt all questions. 2) Illustrate your answer with suitable labeled diagram.	
			5 7 9 7 9 4 9 4 9 7 7 7 7 7 7 7 7 7 7 7 7
Q.1	Descr	ribe structure and working of silk gland.	20
		OR	
	Descri	ibe morphology of different stages of Bombyx mori.	20
Q.2	Explai	in agro cottage industry and add a note of employment generation. OR	20
	Write	short notes on any four of the following.	20
		Charkha	
	b)	Bacterial diseases	
	c)	Feeding schedule	
	d)	Moulting	
	e)	Pest predators	
	f)	Incubation	
Q.3	Select	and write correct answer from the given alternatives in each sub questions.	10
	1)	Vijetha is	
	3	a) General disinfectant b) Bed disinfectant	
		c) Chemical used for the uniform d) Pesticide hatching	
	2)	The head office of central silk Board is located ina) Channai b) Banglore c) Kolkota d) Delhi	
		Cittle and the City of the Court of the Cour	
		Silk protein fibroin contain 50% of a) Serine b) Alanine c) Proline d) Glycine	
30.00 20.75	4)	Root nodule is formed by	
	90726	a) Rhizobium b) Nematode c) Virus d) Mealy bug	
9000 V	5)	Diploid number of chromosomes in somatic cells of Bombyx mori area) 28 b) 56 c) 84 d) 112	
YOYA	Y TO SY AND	7.57 C 7.	

O)	Cocoon stylling is	a process of		7, VO, B, S)
	a) Killing of pupa	e	b) Killin	g of larvae
	c) Dissecting of la	arvae		g eggs
7)	Streptococcus faec a) Bacterial disc) Fungal disea		b) Vir	al disease tozoan disease
8)	Which silk is know	vn as ahimsa silk		
	a) Muga silk	b) Mulberry	c) Eri	d) Tasar
9)	Sanitech is aa) Disinfectant	b) pesticide	c) Fungicide	d) Weedicide
10) Larva of Bombyx	mori is		
	a) Caterpiller	b) Trochophore	c) Nymph	d) Cocoon

SUBJECT CODE NO:- L-2156 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. T.Y. (Sem-VI) Examination Oct/Nov 2018 Zoology Paper-XX (602) (C) Entomology - II

[Time:	1:30 Hours]		lax.Marks:50
N.B	Please check whether you have 1) Attempt all questions. 2) Illustrate your answer with		
Q.1	Explain in detail classification and general chara What is stored grain pest? Describe in detail life-		em borer. 20
Q.2	What is pest control methods? Describe in detail control.	integrated pest management method of p	
	Write short notes on any four of the followings: a) Hand Rotary Duster b) Contact Poison c) Knapsac Sprayer d) Insecticides e) Migration of Insects f) Pulse bettle 	OR STATE OF THE ST	20
Q.3	Select and write correct answer from the given a 1) Horse Fly is the pest. a) Agricultural b) Veterinary 2) Scientific name of Red Cotton Bug a) Chilozonelus c) Desdurcus singulactus 3) White grub sucks the juice of a) Fruit of pomegranate	c) medical d) poultry b) Sitophilus oryzae d) Periplanata Americana	10
	c) Pod of groundnut 4) Sitophilus Oryzae is commonly called as a) Pulse bettle c) Grain moth	d) Stem of sugarcane	

3)	a) Contact b) F	umigent		d) all the above
6)	Hand operating system is	found in		
ŕ	a) Hand rotary duster		b) Foo	ot pump
	c) Cyanogas pump			the above
7)	Parasite and predator term	ns is related to -		
	a) Biological control	\\ \tag{\tag{\tag{\tag{\tag{\tag{\tag{	b) IPN	
	c) Chemical control	100 A	d) Fur	nigation
8)	Light trapper is used in	-	0,145,7,10,8	
	a) Biological control		b) IPM	
	c) Ploughing		d) Cul	tural control
9)	Insects are transfer from o	one place to and	other place for r	eproduction is called as
	a) Migration	50000000000000000000000000000000000000	b) Ad	aptation
	c) Transformation		d) hab	itat
10)) Jowar stem borer affects t	he	part of crop.	
	a) Root b) Stem	c) Stalk	d) all the above

SUBJECT CODE NO:- L-2156 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. T.Y. (Sem-VI) Examination Oct/Nov 2018 Zoology Paper-XX (602)

(D) Parastics Protozoa and Helminthes-II

[Time:	1:30 Hours] [Max,Ma	rks:50]
N.B	Please check whether you have got the right question paper. 1) Attempt all questions. 2) Illustrate your answer with suitable labelled diagram.	
Q.1	Give an account on classification of helminthes with suitable examples.	20
	OR Describe lifecycle, pathogenicity & control measure of W.bancraftii.	20
Q.2	Write an essay on male and female reproductive system of nematode. OR	20
	Write a short notes on any four of the following. a) Hookworm b) Cysticercosis c) Hydatid cyst d) Trematode body wall e) Morphology of adult T.Spiralis f) Pathogenecity of E.Vermicularis	20
Q.3	Select and write correct answer from the given alternatives in each sub questions. 1) The common name for worms included in class trematoda is a) tapeworms b) Amoeba c) Flukes d) none of above	10
	 2) In cestode which layer contain thread like spine	
	4) The body is nematode is elongated and a) Oval b) cylindrical c) strobila d) both a & b	
	5) Helminths are multicellular bilaterally symmetrical a) Metazoa b) protozoa c) Nematoda d) submetazoa	
	6) Treatment of D. Medinesis is a) Paracetamol b) Aspergin c) Aciloc d) metronidazole	

7)	Which of the follow	ing trematodes	live in liver?	_	1. 4. 4. 10.	8888	5-97
a) Fasiolopsisbuski		b)	Fasciola h	nepatica	100000	200 A
c	c) Schistosoma haen	natobium	d)	P. Wester	mani		25
8)	Microfilaria are fou a) Brain	nd in the b) veins	 c) Lympl	n nodes	d) li	iver	
9)	Intermediate host fo a) Microfilaria	or filariasis b) Mosqu	iito c) man	d) Nei	matode	2/4/2 2/4/2 2/4/2
10))is kno a) E. Granulosus	own as hydatid b) T. Sag) F. Hepati	ca	d) E. Vermicu	laria

SUBJECT CODE NO:- L-2156 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc T.Y (Sem-VI) Examination Oct/Nov 2018 Zoology Paper-XX (602)

[7 [:	(E) Computer Applications & Medical Lab Technology -II	
[11me:	1:30 Hours] [Max.Ma	rks:50
N.B	Please check whether you have got the right question paper. 1) Attempt all questions.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	2) Illustrate your answer with suitable labelled diagram.	500/1
		37
Q.1	Describe in detail the Laboratory management system. OR	20
	Explain the working & principles of colorimeter.	20
Q.2	What is the composition of blood? Explain its clinical significance. OR	20
	Write a short note on any four of the following:-	20
	a) RBC's	
	b) Centrifuge	
	c) Molar solutions	
	d) Parasitic infection	
	e) Auto clave	
	f) Bile pigments	
Q.3	Multiple Choice Questions.	10
	1) Milky white colour at urine indicates	
	a) Parasitic infection b) Liver infection c) fungal infection d) a and b	
	2) Normal blood clotting time is	
C.	a) 20 minutes b) 5-8 minutes c) 3-5 minutes d) 18-19 minutes	
OF A	3) Formation at plasma protein occurs in	
46 C	a) Spleen b) tissues c) Liver d) Kidney	
	4) Normal Volume semen is	
3,6,00	a) 2-6 ml b) 15 ml c) 7-10 ml d) 8-12 ml	
	5) Disagge council by Salmonalle is	
	5) Disease caused by Salmonella is a) Ulcer b) Typhoid c) Dengue d) AIDS	
8 2 % 6 5 %	a) Typhold C) Beligue d) MD5	
20 20 07 20 20 07	6) H_1N_1 is a causative agent at	
18 8 8 0 8 8 8	a) AIDS b) Swine Flu c) Cancer d) Bird Flu	
3776		
A. W. /	√07 ΦΦ ΛΕΥ ΛΥ ΓΥ ΛΕΥ ΛΕΙ ΓΟΥ	

7)	Bla	ack and brow	n colour at urine in	dicates	VA S	1000
	a)	Nephritis	b) Liver in	fection c)	poisoning	d) Ulce
		•			\$37.400	07800
8)	In	polyuria vol	ume at urine is	6	3,02,43,7	500VA
	a)	Decrease	b) Increase	c) Mode	rate d) a and b
				600		POTA C
9)	Ery	ythrocytes ar	e commonly knowr	n as		100 P
	a)	WBC	b) Serum	c) RBC	d) Throm	bocytes
			•	275/33 G	3,20,000	8 11 10 0 C
10) Re	nal disorder	are related to	1888 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3,000	
	a)	Liver	b) Kidney	c) Lungs	(b. c./s/	Spleen

SUBJECT CODE NO:- L-2156 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. T.Y. (Sem-VI) Examination Oct/Nov 2018 Zoology Paper-XX (602) (F) Biotechnology - II

[Max.Marks:50]

[Time: 1:30 Hours] Please check whether you have got the right question paper. N.B 1) Attempt all questions. 2) Draw neat labelled diagram wherever necessary. Q.1 Briefly describe the steps in in-vitro fertilization and Embryo transfer. 20 What are Transgenic animals? Describe Microinjection with example. 20 Q.2 Define gene therapy? Briefly describe bone marrow transplantation. 20 Short notes any four. 20 1. Bacterial Contamination 2. Commercial production of enzymes 3. Retroviral method 4. Antigene therapy 5. Immunological assays 6. Disease detection Q.3 Choose the correct answer. 10 1) The most effective method of sterilization is a) Gram rays b) boiling c) Autoclaving d) Incineration 2) The first vaccine developed from animal cell culture was a) Hepatitis B Vaccine b) Influenza Vaccine c) Small pox Vaccine d) Polio Vaccine 3) Dolly the sheep was cloned from a) An embryonic cell b) Fetal cell c) A memory gland cell d) Artificial cell 4) The technique of obtaining identical copies of the desired gene is called as a) Gene therapy b) rDNA technology c) Gene cloning d) Genetic fingerprinting

- 5) The hybridomas are made by
- a) Fusing T cells with myeloma cells
- c) Fusing T helper cells with myeloma cells.
- b) Fusing B cells with myeloma cells
- d) Fusing B memory cells with myeloma cells.

- 6) Somatic cell therapy include
- a) Ex-vivo therapy
- c) Antisense therapy
- 7) DNA fingerprinting is used for
- a) In forensic studies
- c) To confirm cell line identity
- 8) Monoclonal antibodies are not used in
- a) Pregnancy test
- c) ELISA
- 9) PCR is used in
- a) Site specific recombination
- c) Both a & b
- 10) Mabs are used in
- a) The screening of recombinants
- c) The treatment of many cancers

- b) In-vivo therapy
- d) All of these
- b) In pedigree analysis
- d) All of the above
- b) Diagnosis of cancer
- d) Diagnosis of diabetes
- b) Site-directed mutagenesis
- d) Site specific translocations
- b) Diagnostic kits
- d) All of these

SUBJECT CODE NO:- L-2156 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. T.Y. (Sem-VI) Examination Oct/Nov 2018 Zoology Paper-XX (602) (G) Dairy Technology- II

:: 1:30 Hours]	[Max.Marks:50]
Please check whether you have got the right question paper. 1) Attempt all questions.	
2) Illustrate your answer with suitable labelled diagram.	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Define Basundi. Give its chemical composition and explain method of production. OR	20
What is chakka and shrikhand? Explain composition and method of preparation.	20
What is Butter and explain method of manufacturing of Butter. OR	20
Write short notes on any four of the following:	20
a) Recombined milk	
b) Fortified milk	
c) Defects in Ghee	
d) Peda	
f) Microbial toxins	
Select and write correct answer from the given alternatives in each sub question.	10
1) Which milk protein is most sensitive to acid	
a) Casein b) Lactoglobulin c) Lactoalbumin d) Glutein	
2) The minimum amount of fat in ghee is	
a)99.8% b) 99% c) 97% d) 80%	
3) Butter oil is high in fat soluble vitamins	
a) A and C b) A and D c) K and E d) K and C	
4) Which culture is used in making curd	
a) Bacterial Culture b) Yeast Culture	
c) Mold Culture d) Yeast and mold Culture	9
5) Which of the following is called the balance wheel of dairy industry	
a) Flavored milk b) Buffalo milk	
c) Cow milk d) Dry milk	
	1) Attempt all questions. 2) Illustrate your answer with suitable labelled diagram. Define Basundi. Give its chemical composition and explain method of production. OR What is chakka and shrikhand? Explain composition and method of preparation. What is Butter and explain method of manufacturing of Butter. OR Write short notes on any four of the following:- a) Recombined milk b) Fortified milk c) Defects in Ghee d) Peda e) Malai ka Barfi f) Microbial toxins Select and write correct answer from the given alternatives in each sub question. 1) Which milk protein is most sensitive to acid

6) According to PFA (19/6), butter can contain maximum moisture at the level			
	a) 80 b) 5.0 c) 12.5	d) 16	
			£0,7£2,768332£2
7)	Chakka is an intermediate produc	et of	
	a) Shrikhand	t	o) Shrikhand wadi
	c) Both a & b	C	l) None of these
0)	W1:1 C4 C11 : 11 1	C 1	
8)	Which of the following is called a		
	a) Khoa	57.67) Kulfi
	c) Kalakand	CORPORA	d) All the above
9)	An alkaline reaction in milk is car	used by the alkai	formers bacteria
-,	a) Pseudomonas fluorescens		b) A. viscolactis
	c) Both a and b	27 4 60 0 X 2 C	l) None of them
10	X:11 : 1 : 1 1 1 1 2 2 2	12 3 1 4 0 0 V V	
10,	Milk is dried usually by	method.	0,42,0,8888,428,80
	a) Spray dryer	b)	Tray dryer
	c) Rotary dryer	(d)	All the above

SUBJECT CODE NO:- L-2156 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. T.Y. (Sem-VI) Examination Oct/Nov 2018 Zoology Paper-XX (602) (H) Poultry Science - II

[Time	e: 1:30 Hours] [Max,Mar	:ks:50]
N.B	Please check whether you have got the right question paper. 1) Attempt all questions.	\$ 5 5 7 7 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
	2) Illustrate your answer with suitable labelled diagram.	20,
		, , ,
Q.1	Write in detail about Housing, sanitation and hygine maintenance during Brooder management. OR	20
	Describe in detail folding and intensive system.	20
Q.2	Explain in detail poultry diseases.	20
	OR OF STATE	20
	Write short notes on any four of the following. a) Poultry products	20
	b) Requirement of poultry feed	
	c) Ingredient feed	
	d) Preservation of poultry products.	
	e) Non-conventional poultry feed f) Conventional poultry feed	
Q.3	Select and write correct answer from the given alternatives in each sub question.	10
	1) Some chickens are grown for	
	a) Meat b) chicken c) poultry d) None of the above	
	2) Acan be as long as a football field.	
,	a) water b) broiler house c) poultry farm d) none of the above	
0 P	3) The floor is covered with	
60 C	a) Litter b) leaves c) ladders d) none of the above	
	4) keep the chicks warm.	
	a) Water b) Brooder's c) aligators d) None of the above	
	5) Waterers are kept full of	
	a) Wait b) water c) wonder d) None of the above	
900	6) Which of the following bacteria does typically induce liver granulonas in turkeys	
1873	a) Clostridium septicum b) Eubacterium tortoosum	
3506	c) Streptubacillus moniliformis d) Staphylococcus aureus	
VT DA'L	1 107 (A-7 a V - Y - Y - Y - O) (A-7 a D - O)	

7)	In poultry coccidiosis is caused by		
	a) Virus	b) Helminth parasite	
	c) Protozoan	d) Fungus	
8)	Which of the following mycoplasmas	has tropism for the gastrointestinal tract	
ŕ	a) M. Ojowae	b) M. Synoviae	
	c) M. Gallisepticum	d) None of the above	
9)	Chicken is also called		
	a) Meat b) poles	c) broiler houses d) poultry	
10)	How many weeks does it take for a m	eat type chicken to reach a weight of 4 pounds	
	a) 10 days b) 6 months	c) 6 to 8 weeks d) 32 weeks	

SUBJECT CODE NO:- L-2036 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. F.Y. (Sem-I) Examination Oct/Nov 2018 Zoology Paper-II Cell Biology

[Time	:30 Hours] [Max.Marks	:50]			
N.B	Please check whether you have got the right question paper. 1. Attempt all questions. 2. Illustrate your answer with suitable labeled diagram	300			
	2. Mustace your answer wat surface angular and the second				
Q.1	Describe in details structure of prokaryotic cell.	20			
	Cive on account on ultrastructure and functions of exits headrin	20			
	Give an account on ultrastructure and functions of mitochondria.				
Q.2	Give in detail account on types of RNA.	20			
	OR SERVICE OF SERVICE	20			
	Write short notes on (any four)	20			
	a) Functions of plasma membraneb) Light microscope				
	c) Ribosomes				
	d) Metaphase				
	e) Types of cancer				
	f) Staining				
Q.3	Select and write correct answer from the given alternatives in each sub questions.	10			
	1) The site of respiration within the cell is:				
	a) Mitochondria b) Nucleoli c) Ribosomes d) Lysosomes				
	2) Ribosomes plays an important role in :a) Cellular digestionb) Lipogenesisc) Protein synthesisd) Photosynthesis	S			
	3) During cell division nuclear membrane reappears in:				
9999	a) S-phase b) Telophase c) Anaphase d) Metaphase				
5000	4) DNA is a polymer of:				
2000	a) Nucleotides b) Amino acids c) Pentose sugar d) Phosphoric acid				
	5) The nuclear membrane completely disintegrated in phase.				
	a) Anaphase b) Prometaphase c) Metaphase d) Telophase				
	6) The inner lining of mitochondria is thrown into finger like projection is:				
0, 20°0	a) Matrix b) Cristae c) Lamellae d) Grana				
1 D 10 10	5/20/4/6/2008 8/44				

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1)	Ribosomes are prese	ent everywnere except	: <u> </u>		7,0,
	a) Mitochondria	b) Chloroplast	c) Nucleus	d) Cytoplasm	36
					30,0
8)	Which of the following has a continuous connection with the nuclear membrane:				
	a) Golgi bodies	b) Lysosomes			100
	c) Plasma membrane	e d) Endoplasmi	ic reticulum		
9)	Golgi body is conce	rn with the formation	of · of honor of the control of the		
))	•				500
	a) Nucleus	b) Lysosomes	c) Ribosomes	d) Endoplasmic reticulu	ım
			1000 100 100 100 100 100 100 100 100 10		
10)	Phagocytized food i	s digested in:			\$ (2)
	a) Ribosomes	b) Endoplasmic ret	iculum c) Gol	gi bodies d) Lysosor	mes

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