

S G S ARTS COLLEGE, TIRUPATI

DEPARTMENT OF **ZOOLOGY**

2019-2020

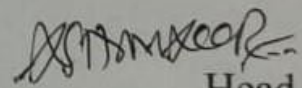
**BRIDGE COURSE**

2019-2020

SGS Arts College, Tirupati  
Department of Zoology

Circular

First-year Life Sciences students who studied vocational courses at the intermediate level are informed to attend the bridge course which will be held at seminar hall, SGS Degree College, Tirupati from 01-08-2019 to 07-08-2019.



Head,

Department of Zoology

**HEAD**

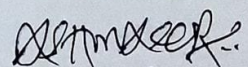
Department of Zoology  
S.G.S. Arts College  
TIRUPATI-517 502

**S G S ARTS COLLEGE, TIRUPATI**  
**DEPARTMENT OF ZOOLOGY**  
**2019-2020**

**Bridge Course-Summary**

<b>Name of the programme</b>	Bridge course in ZOOLOGY for vocational students
<b>Duration of Course</b>	One Week
<b>Date</b>	01-08-2019 to 07-08-2019
<b>Venue</b>	III ZOOLOGY LAB [Room No: 118]

<b>S.No</b>	<b>Subject name</b>	<b>Faculty Name</b>	<b>No. of Students</b>
1	UNIT 1	S N SHAMEER	6
2	UNIT 2	B RAVI	6
3	UNIT 3	S N SHAMEER	6
4	UNIT 4	B RAVI	6

  
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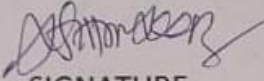
2019-2020

**Students List**

S G S ARTS COLLEGE, TIRUPATI  
DEPARTMENT OF ZOOLOGY  
2019-2020

**Students ~~Marks~~ List**

S.No	Name of the student	Signature
1	P. Munendra	Munendra
2	M. Naveen Naik	Naveen
3	N. Lokesh	Lokesh
4	Shaik Reena	Reena
5	S. Mary	S.Mary
6	M. Pandiyan	Pandiyan

  
SIGNATURE

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DEPARTMENT OF **ZOOLOGY**

2019-2020

### **Bridge Course Timetable**

<b>Day</b>	<b>10AM-11AM</b>	<b>11AM-12NOON</b>	<b>12NOON-1PM</b>	<b>2PM-3PM</b>	<b>3PM-4PM</b>
Monday	Unit I	Unit II	Unit III	Unit IV	Q&A Session
Tuesday	Unit II	Unit I	Unit IV	Unit III	
Wednesday	Unit I	Unit II	Unit III	Unit IV	
Thursday	Unit V	Unit III	Unit II	Unit IV	
Friday	Unit III	Unit V	Unit IV	Unit II	
Saturday	Unit II	Unit V	Unit IV	Unit III	

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2019-2020

## **Bridge Course Syllabus**

BOARD OF INTERMEDIATE EDUCATION, ANDHRA PRADESH  
SYLLABUS OF ZOOLOGY FOR BRIDGE COURSE

### **UNIT- I: ZOOLOGY – Diversity of Living World**

- 1.1 What is life?
- 1.2 Nature, Scope & meaning of zoology
- 1.3 Branches of Zoology
- 1.4 Need for classification- Zoos as tools for the study of taxonomy
- 1.5 Basic principles of Classification: Biological system of classification- (Phylogenetic classification only)
- 1.6 Levels or Hierarchy of classification
- 1.7 Nomenclature – Bi & Trinominal
- 1.8 Species concept
- 1.9 Kingdom Animalia
- 1.10 Biodiversity – Meaning and distribution (Genetic diversity, Species diversity, Ecosystem diversity (alpha,beta and gama), other attributes of biodiversity, role of biodiversity, threats to biodiveristy, methods of conservation, IUCN Red data books, Conservation of wild life in India –Legislation, Preservation, Organisations,Threatened species..

### **UNIT- II: STRUCTURAL ORGANIZATION IN ANIMALS**

- 2.1 Levels of organization, Multicellularity: Diploblastic & Triploblastic conditions
- 2.2 Asymmetry,Symmetry: Radial symmetry, and Bilateral symmetry  
(Brief account giving one example for each type from the

representative phyla)

2.3 Acoelomates, Pseudocoelomates and Eucoelomates :- Schizo & Entero coelomates (Brief

account of formation of coelom)

2.4 Tissues: Epithelial, Connective, Muscular and Nervous tissues.  
(make it a little more elaborative)

### **UNIT- III: ANIMAL DIVERSITY - I: INVERTEBRATE PHyla**

3.1 Porifera

3.2 Cnidaria

3.3 Ctenophora

3.4 Platyhelminthes

3.5 Nematoda

3.6 Annelida (Include Earthworm as a type study strictly adhering to NCERT text book)

3.7 Arthropoda

3.8 Mollusca

3.9 Echinodermata

3.10 Hemichordata

### **UNIT- IV: ANIMAL DIVERSITY - II: PHYLUM : CHORDATA**

4.0 Phylum : Chordata

4.1 Sub phylum: Urochordata

4.2 Sub phylum: Cephalochordata

4.3 Sub phylum : Vertebrata

4.4 Super class: Agnatha

4.4.1 Class Cyclostomata

4.5 Super class: Gnathostomata

4.5.1 Super class pisces

4.5.2 Class: Chondrichthyes

4.5.3 Class: Osteichthyes

4.6 Tetrapoda

4.6.1 Class: Amphibia (Include Frog as a type

study strictly adhering to NCERT text book)

4.6.2 Class: Reptilia

4.6.3 Class: Aves

4.6.4 Class: Mammalia

## **UNIT- V: BIOLOGY & HUMAN WELFARE**

5.1 Parasitism and parasitic adaptation

5.2 Health and disease: introduction (follow NCERT)

Life cycle, Pathogenecity, Treatment & Prevention

(Brief account only)

1 Entamoeba histolytica

2 Plasmodium vivax

3 Ascaris lumbricoides

.4 Wuchereria bancrofti

5.3 Brief account of pathogenecity, treatment & prevention of Typhoid, Pneumonia, Common cold, & Ring worm.

5.4 Drugs and Alcohol absuse

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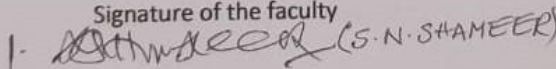
2019-2020


**Bridge Course Student Attendance**

DEPARTMENT OF ZOOLOGY  
2019-2020  
**Bridge Course Student Attendance**

S.No	Name of the student	Course Studied in Intermediate	Course Joined in UG	01-08-2019	02-08-2019	03-08-2019	05-08-2019	06-08-2019	07-08-2019
1	D Ramya	MPHW ( Multi-Purpose Health Worker Course )	BBC	P	P	P	P	P	P
2	C Chandu	Dairy Science	CBZ	P	P	P	P	P	P
3	K Chenchaiyah	Dairy Science	CBZ	P	P	P	P	P	P
4	G Swarna Latha	MLT ( Medical Lab Technician Course )	MZC	P	P	P	P	P	P

Signature of the faculty

1.  (S.N. SHAMEER)

2.  (B. RAVE.)

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2019-2020

## Students Marks List

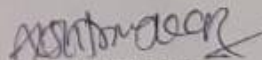
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2019-2020

## Students Marks List

S.No	Name of the student	Signature
1	P. Munendra	21
2	M. Naveen Naik	18
3	N. Lokesh	23
4	Shaik Reena	20
5	S. Mary	21
6	M. Pandiyan	24

  
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**QUESTION PAPER CONDUCTED FOR THE  
STUDENTS BRIDGE COURSE:**

MCQ'S:

1. The chemical basis of inheritance is
  1. Ascorbic acid
  2. Deoxyribo Nucleic Acid
  3. Nuclear membrane
  4. Ribosome
2. Molecular structure of DNA was discovered by
  1. Charles Darwin
  2. Carolus Linnaeus
  3. Watson & Crick
  4. J.B.Lamarck
3. Structural and functional units of the body ar
  1. Cells
  2. Tissues
  3. Organs
  4. Organ Systems
4. Showing response to external or internal stimuli is called as
  1. Homeostasis
  2. Senescence
  3. Metabolism
  4. Sensitivity
5. Life comes only from life. This is called as
  1. Lipogenesis
  2. Biogenesis
  3. Neogenesis
  4. Glycogenesis

KEY:

- 1 2
- 2 3
- 3 1
- 4 4
- 5 2

6. Brown fat is found in  
 1. Frog 2. Foetuses and infants  
 3. Both 1 and 2 4. None of these
7. Reticular tissue is present in  
 1. Bones 2. Cartilage  
 3. Blubber of Whale 4. Bone marrow, spleen and lymph nodes
8. Perichondrium is absent in  
 1. Hyaline cartilage 2. Elastic cartilage  
 3. Fibrous cartilage 4. None of these
9. Which salt is present in bone in maximum quantity?  
 1. Potassium salts 2. Calcium salts  
 3. Magnesium salts 4. Sodium salts
10. If a bone is kept for three days in 10% KOH solution, it will  
 1. Dissolve 2. Soften  
 3. be unaffected 4. break

Key :

6 2

7 4

8 3

9 2

10 3

11. The first diploblastic animal belongs to  
 1. Platyhelminthes 2. annelid 3. Cnidaria 4. Nematoda
12. Cnidoblast is the characteristic feature of  
 1. Ctenophora 2. Coelenterata 3. Annelida 4. Arthropoda
13. Select the correct pair of organisms which show both intra and extracellular digestion  
 1. Earthworm and Taenia 2. Amoeba and Plasmodium  
 3. Gorgonia and Pennatula 4. Neiris and Echinus
14. Among the following which phylum includes the first bilaterally symmetrical, triploblastic, acoelomates with organ system level of organization  
 1. Annelida 2. Platyhelminthes 3. Nematoda 4. Arthropoda

15. Pseudometamerism is exhibited by  
1. Taenia 2. Dugesia 3. Fasciola 4. Schistosoma

Key:

11 3

12 2

13 3

14 1

15 4

16. Notochord occurs all through the length of body and throughout life in

A. Hemichordata B. urochordata C. Cephalochordata D. Vertebrata

17. find out the difference between urochordata and cephalochordates

A. position of endostyle B. pharynx

C. length of notochord D. All of the above

18. Excretory organs of Amphioxus are

19. The group amniota includes

A. Reptiles and birds only B. Reptiles and mammals only

C. Reptiles, birds and mammals D. Mammals and birds only

20. Which one of the following is egg-laying mammal [RPMT 2001; MPPMT2001]

A. Pangolin B. Tachyglossus C. Porcupine D. Bat

KEY:

ACCBCB

21. Hepatic Schizogony discovered by (B )

A. Charles Laveran B. Short & Garnham

C. Camillo Golgi D. Ronald Ross

22. *Ascaris lumbricoides* commonly called as (A)

A. Common round worm B. Hook worm

C. Pin worm D. Eye worm

23. Elephantiasis caused by (C )

A. *Ascaris lumbricoides* B. *Plasmodium ovale*

C. *Wuchereria* D. *Loa loa*

24. Morphine extracted from dried latex of the (A )

- A. Pod of poppy plant B. Leaves of Cannabis  
C. Leaves of Coca D. None of the above
25. Cocaine extracted from (C )  
A. Pod of poppy plant B. Leaves of Cannabis C. Leaves of Coca  
D. None of the above
1. The below parasite have developed Protective cuticle to withstand the action of the digestive enzymes of the host. ( )  
A. Plasmodium B. Giardia C. Ascaris D. Entamoeba
2. The below parasite produce anti enzymes to neutralize the effect of hosts digestive enzymes ( )  
A. Plasmodium B. Giardia C. Ascaris D. Taenia solium
3. This parasite is a facultative anaerobe ( )  
A. Plasmodium B. Giardia C. Ascaris D. Trypanosoma
4. Parasitic castration seen in ( )  
A. Carcinus maenas B. Thenus C. Paeneus D. Belanus
5. Following is a Non infectious disease ( )  
A. Nyctolopea B. Osteo malacia C. Amoebic dysentery D. A&B
6. Lobopodium seen in which stage in Entamoeba ( )  
A. Cystic stage B. Pre cystic stage C. Trophozoite stage D. None
7. Histolysin an enzyme produced by Entamoeba is a ( )  
A. Proteolytic enzyme B. Lipolytic enzyme  
C. Amylase D. None
8. Which stage is the non feeding and non pathogenic stage in Entamoeba life cycle  
A. Trophozoit stage B. Pre cystic stage  
C. both A&B D. None
9. Chromatoid bars are made up by ( )  
A. Carbohydrates B. Lipids  
C. Ribonucleo protein D. Cellulose

11. The length of the sporozoite of plasmodium approximately ( )  
 A. 20 microns B. 25 microns  
 C. 10 microns D. 15 microns
12. Pre erythrocytic & Exo erythrocytic cycles of Plasmodium takes place at ( )  
 A. RBC B. WBC C. Hepatocytes D. Spermatocytes
13. Schizogony is a ( )  
 A. Sexual reproduction B. Asexual reproduction  
 C. Encystment D. None
14. The interval between the first entry of Plasmodium into the blood in the form of  
 sporozoites and the second entry of Plasmodium into the blood in the  
 form of  
 Cryptozoites is called. ( )  
 A. Incubation period B. Sedentary period  
 C. Prepatent period D. Latent period
15. The period between the entry of plasmodium into the blood in the  
 form of  
 Sporozoite and the first appearance of symptoms of malaria in man is  
 called ( )  
 A. Incubation period B. Sedentary period  
 C. Prepatent period D. Latent period
16. Pineal spicules seen in ( )  
 A. Male Ascaris B. Male Wuchereria  
 C. Female Ascaris D. A & B
17. The Infective stage of Ascaris lumbricoides to the new Human ( )  
 A. 1st stage rhabditiform B. 2nd stage rhabditiform  
 C. Sausage larva D. None
18. The infective stage of Wuchereria ( )  
 A. Sausage larva B. 2nd stage microfilaria  
 C. 3rd stage microfilaria D. None
19. Typhoid fever confirmed by ( )  
 A. Lipid profile test B. Widal test  
 C. Bile pigment test D. Popsmeat test
20. Pneumonia affects ( )  
 A. Brain B. Kidneys C. Liver D. Lungs
1. Which are Digenetic parasites ( )

A.Entamoeba&Ascaris B.Plasmodium&Wuchereria

C.Entamoeba&Giardia D.None

2.Primary host or Definitive host of plasmodium ( )

A.Female Anopheles B.Male Anopheles

C.Female culex D.Man

3.Secondary host or Intermediate host of Wuchereria ( )

A.Female Anopheles B.Male Anopheles

C.Female culex D.Man

4.The reservoir host of African sleeping sickness causing protozoan ( )

A.Rhesus monkey B. Gnu C.Ostrich D.Chimpanzee

5.Obligatory anaerobe parasites ( )

A.Entamoeba&Taenia B.Ascais&Enterobius

C. Entamoeba& Enterobius D.None

S

Key:

1.C 2.D 3.C 4.A 5.D

6.C 7.A 8.B 9.C 10.C

11.D 12.C 13.B 14.C 15.A

16.A 17.B 18.C 19.B 20.D

1.B 2.A 3.C 4.B 5.A