

Shri R.L.T. College of Science, Akola

E-Contents of Google Classroom Online Teaching

Department of Zoology

Guardian Teacher : Dr. Sushil M. Nagrale
Class and Section : B.Sc.III B3, B5 and B6
Class Code : m6u54p3
Month : August 2020-August 2021

| Sr. No | Day and Date | Title of the Topic | URLs / Hyperlinks of GC Posts |
|--------|--------------|----------------------------|---|
| 1 | 7 Sept 2020 | Introduction of Entomology | https://drive.google.com/file/d/1zwdV2OkYQG9C85qCNcgUT_nhkzdx_dph/view?usp=drive_web&authuser=0 |
| 2 | 4 Oct 2020 | Wild life documentary | https://www.youtube.com/watch?v=sZAvWUF8uBI https://www.youtube.com/watch?v=RenlL4zrF2U&list=PLxJNbXGrHdcX2gmfJ8DZg-VdS52RA0MEC https://youtu.be/93koXCtOX58?list=PLxJNbXGrHdcVgKv9BfdHMKt7KTmFypzFy |
| 3 | 7 Oct 2020 | Quiz competition | http://rltsc.edu.in/e-pathshala/#Zoology |
| 4 | 9 Oct 2020 | Introduction of Entomology | https://drive.google.com/file/d/1xTPh1CVn_-FjmLp3A9qLe0bxwWXinLxR/view?usp=sharing |
| 5 | 12 Oct 2020 | Morphology of Insect | https://drive.google.com/file/d/18L1983ZXiaFlz_YEkiMIAW19X7dJvUoo/view?usp=sharing |
| 6 | 12 Oct 2020 | MCQ test | http://rltsc.edu.in/e-pathshala/ |
| 7 | 21 Oct 2020 | Beneficial Insect-I | https://drive.google.com/file/d/1EbtXXJxoMyXK5K91f8N6W6w3dG-K6Qx-/view?usp=sharing |
| 8 | 27 Oct 2020 | Beneficial Insect-II | https://us04web.zoom.us/j/6483586884?pwd=MjBUNkNFV0o4Y1R0MTVlcWdWTW96QT09 |

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| 9 | 12 Dec 2020 | Beneficial Insect -III | https://drive.google.com/file/d/1EbtXXJxoMyXK5K91f8N6W6w3dG-K6Qx-/view?usp=sharing |
| 10 | 14 Dec 2020 | Insect pest Harmful Insect | https://us02web.zoom.us/j/4699849088?pwd=MHFTbFRNNDFWRE00cFhtL0JxY00wQT09 |
| 11 | 21 Dec 2020 | Stored grain pest | https://drive.google.com/file/d/1zS3fqhbeBdq7nk9YK6nxoQOEZanSMW4/view?usp=drive_web&authuser=0 |
| 12 | 28 Dec 2020 | Stored Grain Pest -II | https://drive.google.com/file/d/1JHZ2BXxxkzKtlpkjx696s0oqU-c5Qfls/view?usp=drive_web&authuser=0 |
| 13 | 4 Jan 2021 | Pest of Crop Plants | https://us02web.zoom.us/j/4699849088?pwd=MHFTbFRNNDFWRE00cFhtL0JxY00wQT09 |
| 14 | 11 Jan 2021 | Stored Grain Pest | https://drive.google.com/file/d/1e4t7dUdUq3TGk7JqepCP2WkKRLg-56Pq/view?usp=drive_web&authuser=0 |
| 15 | 18 Jan 2021 | Common Agriculture Pest | https://drive.google.com/file/d/1_GLSiyebRHtt63fMsR-OmF7dFdeix-Yi/view?usp=drive_web&authuser=0 |
| 16 | 25Jan 2021 | Economic Importance -I | https://drive.google.com/file/d/1osiVjEUq7XAgf8PzBaL8Yl0JBG-bNXtF/view?usp=drive_web&authuser=0 |
| 17 | 1 Feb 2021 | Economic Importance -II | https://drive.google.com/file/d/1pgQ2FtstJlrmgtqUaYCUrutjekwhBM/view?usp=drive_web&authuser=0 |
| 18 | 15 Feb 2021 | Sericulture –Type of Silk | https://drive.google.com/file/d/1yVmdDKPLL2klm9wa2k2HGjAP8oEcQMn/view?usp=drive_web&authuser=0 |
| 19 | 24 Feb 2021 | Sericulture | https://drive.google.com/file/d/119012TjqcxqQMm0FVx_bKq3vp5iV5sa/view?usp=drive_web&authuser=0 |
| 20 | 6 March 2021 | Sericulture – Rearing of silkworm-I | https://drive.google.com/file/d/13O1ugSjRQMIcr3ZZ3s2llytXK7OaFM_R/view?usp=drive_web&authuser=0 |
| 21 | 13 March 2021 | Sericulture – Rearing of silkworm-II | https://drive.google.com/file/d/1TJ6q722mc8YLMx8AssAHluSZGeels91C/view?usp=drive_web&authuser=0 |
| 22 | 25 March 2021 | Apiculture- Types of Honey bees | https://drive.google.com/file/d/1i3qZESsgcyjOzaz6qwulKAO7JMF5-YmV/view?usp=drive_web&authuser=0 |
| 23 | 30 March 2021 | Apiculture- Life cycle | https://drive.google.com/file/d/10pxGuUSZ_4JldW90SRAmD9yemks8HXXO/view?usp=drive_web&authuser=0 |
| 24 | 5 April2021 | Practical B. Sc.III Sem V Zoology | https://drive.google.com/file/d/1d1WdamZ985Qx6inoEI_Oh2FBmrgVjUsL/view?usp=drive_web&authuser=0 |
| 25 | 7 April 2021 | Practical – Study of Histology | https://drive.google.com/file/d/1ROct_qUGSv0rFdHlq3HeCuJUmKbJIZ4f/view?usp=drive |

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| | | slides | _web&authuser=0 |
| 26 | 8 April 2021 | Practical – Study of Locally available insect | https://drive.google.com/file/d/1sLu8XCBJHlvx5VoDcjMm9wGod9F_ABun/view?usp=drive_web&authuser=0 |
| 27 | 10 April 2021 | Practical – Study of Fishes | https://drive.google.com/file/d/1Msb17UMGXpIICHDKJIAcu02xAjZy8WpV/view?usp=drive_web&authuser=0 |
| 28 | 12 April 2021 | Practical – life cycle of insect | https://drive.google.com/file/d/14InIdmenqXnUDt9wkeM0PPcMbhtQH9uy/view?usp=drive_web&authuser=0 |
| 29 | 13 April 2021 | Practical – MCQ question Bank | https://drive.google.com/file/d/10e5aPqUtBlzz6lGcz2TT2x7E6A-5gJ2N/view?usp=drive_web&authuser=0 |
| 30 | 15 April 2021 | Practical Exam Zoology Sem V | https://forms.gle/7Ud3LLhy15Aj3WJJ6 |
| 31 | 30 April 2021 | Introduction Zoology Practical Sem VI | https://drive.google.com/file/d/14uowQDm_t3ygP7CcxNqj0Po_9biDxZj/view?usp=drive_web&authuser=0 |
| 32 | 6 May 2021 | Mutation- Introduction | https://drive.google.com/file/d/12Qj5QjAoJkQ8JHm6Dxf3nA5e_qtNV6NH/view?usp=drive_web&authuser=0 |
| 33 | 10 May 2021 | Mutation –Types | https://drive.google.com/file/d/1QjS0fAlgFJkgxS86fUHVvrh8CHdQ_9SE/view?usp=drive_web&authuser=0 |
| 34 | 12 May 2021 | Practical Microtechniques-I | https://drive.google.com/file/d/102bmlD8ZFmO1y29Drliempp-rZUjLRs/view?usp=drive_web&authuser=0 |
| 35 | 15 May 2021 | Practical – Fixation | https://drive.google.com/file/d/1JNs8G2eiPaHiPxe8FFWwa5oUvI061BF/view?usp=drive_web&authuser=0 |
| 36 | 21 May 2021 | Mutation Theory concept | https://drive.google.com/file/d/16hUnRDILP9gDJ9J5F8zmrcVDRiHwHQ/view?usp=drive_web&authuser=0 |
| 37 | 21 May 2021 | Practical – Alcohol grades | https://drive.google.com/file/d/1x3S6zbY1VMrWKxrDv3YJYJ4ILQMIBXlu/view?usp=drive_web&authuser=0 |
| 38 | 22 May 2021 | Practical- Staining | https://drive.google.com/file/d/1lCYH1HptQR-kjw46RnKnYZC1d12-pi5/view?usp=drive_web&authuser=0 |
| 39 | 2 June 2021 | Practical – Micro technique Process- I | https://drive.google.com/file/d/1O68WU525_vk6l6f1sFl_sjCVANcwTajo/view?usp=drive_web&authuser=0 |
| 40 | 5 June 2021 | Practical – Micro technique Process- II | https://drive.google.com/file/d/1b1jm_zTzOL5der9jYmc_2nlm9Frlk2t/view?usp=drive_web&authuser=0 |
| 41 | 7 June 2021 | Molecular basis of Mutation | https://drive.google.com/file/d/1K661E6WY2qtuVyVr6yRnQH5NesFLG00w/view?usp=drive_web&authuser=0 |
| 42 | 23 June 2021 | Practical – Micro technique Process- III | https://drive.google.com/file/d/1MQKr4wByj1dL2DL7ZQq9HbOdcHWipKVb/view?usp=drive_web&authuser=0 |

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| 43 | 28 June 2021 | Mutation - II | https://meet.google.com/cwx-yvcs-pta?authuser=0&hs=179 |
| 44 | 10 July 2021 | Practical -Microtome-Types and application | https://drive.google.com/file/d/12J5tnDJ2F8Welyng3u4xwOhCfgHEOfMx/view?usp=drive_sdk |
| 45 | 13 July 2021 | Chromosomal Mutation | https://drive.google.com/file/d/1sqZw37llhbPDIknWQyQACiUxclJhPYB9/view?usp=drive_web&authuser=0 |
| 46 | 15 July 2021 | Practical -Microtome-Types and application | https://drive.google.com/file/d/1ub5hMe9XCkQhArPX9SgYlvZPW58meJib/view?usp=drive_web&authuser=0 |
| 47 | 17 July 2021 | Practical- Section cutting | https://drive.google.com/file/d/1wHeXgWFn6PnE48tGVwexIQ9HNeQuemhd/view?usp=sharing |
| 48 | 20 July 2021 | Zoology Aptitude test Sem -VI | https://forms.gle/9kMXhSxnhWxTu46t9 |
| 49 | 24 July 2021 | Practical – Camera lucida Drawing | https://drive.google.com/file/d/1mKtKBdClSdyD2y6ByEqUnjWVDbpgiy8O/view?usp=drive_web&authuser=0 |
| 50 | 26 July 2021 | Natural and induced mutation | https://drive.google.com/file/d/1VI1PNZK9s5k6kt32_4Y5xD3WHiv-EJr7/view?usp=drive_web&authuser=0 |
| 51 | 28 July 2021 | Practical – Vital staining | https://drive.google.com/file/d/1asrAOrFRVsMaw0ifmMaFHuF_jsKMzuum/view?usp=drive_web&authuser=0 |
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Shri R.L.T. College of Science, Akola

Class and Section : B.Sc.II, B3, B5 and B6
Class Code : zbwhd5j
Month : August 2020-August 2021

Guardian Teacher : Dr. Sushil M. Nagrale

| Sr. No | Day and Date | Title of the Topic | URLs / Hyperlinks of GC Posts |
|---------------|---------------------|---|---|
| 1 | 3 Oct 2020 | Concept of Evolution | https://us02web.zoom.us/j/4699849088?pwd=WFZYWlJnc3BvWGEvVVJia250OWI4QT09 |
| 2 | 9 Oct 2020 | Concept of Evolution | https://drive.google.com/file/d/10BFEOdpE6MooyBANBYRj-nccSaAxKoUP/view?usp=sharing |
| 3 | 17 Oct 2020 | Evidences of Comparative anatomy | https://drive.google.com/file/d/1FZIQb-oBwFSvWUWBN1hmQSvR-c2M89Np/view?usp=sharing |
| 4 | 24 Oct 2020 | Evidences of Comparative Embryological evidences | https://drive.google.com/file/d/1K26dWHOFgnUdNVVpLVcDoBoXEtUg9ykc/view?usp=drive_web&authuser=0 |
| 5 | 24 Oct 2020 | Evidences of Comparative study | https://us02web.zoom.us/j/4699849088?pwd=WFZYWlJnc3BvWGEvVVJia250OWI4QT09 |
| 6 | 28 Nov 2020 | Evolution Evidences | https://us04web.zoom.us/j/6483586884?pwd=MjBUNkNFV0o4Y1R0MTVlcWdWTW96QT09 |
| 7 | 11 Dec 2020 | Physiological Evidences | https://drive.google.com/file/d/109hITx9TCXTNLzKx5ENQ1uxKCC_hWuO9/view?usp=sharing |
| 8 | 18 Dec 2020 | Indirect evidences of organic evolution | https://drive.google.com/file/d/1FZIQb-oBwFSvWUWBN1hmQSvR-c2M89Np/view?usp=drive_web&authuser=0 |
| 9 | 8 Jan 2021 | Fossils and fossilization | https://us02web.zoom.us/j/4699849088?pwd=MHFTbFRNNDFWRE00cFhtL0JxY00wQT09 |
| 10 | 15 Jan 2021 | Study Material- Evolution Evidences | https://drive.google.com/file/d/1eSUfeTNMdBpUfcSCKEcpK8PUhyzz00iV/view?usp=drive_web&authuser=0 |
| 11 | 29 Jan 2021 | Connective Link | https://drive.google.com/file/d/1QKCS0h5pqj4i6qc7y1GI4OkzvfDocXyL/view?usp=drive_web&authuser=0 |
| 12 | 6 Feb 2021 | Darwin's Theory of Natural Selection | https://drive.google.com/file/d/1QwnBUsh4qEG7Gtf-qR_94ji-ECKJxg/view?usp=drive_web&authuser=0 |
| 13 | 12 Feb 2021 | Lamarckism Theory | https://drive.google.com/file/d/1CVuTsv7NiPgIt5gcFP9GLsHzKN7CUQhN/view?usp=drive_web&authuser=0 |
| 14 | 6 March 2021 | Speciation | https://drive.google.com/file/d/1Obsq8HpMR1YWcNxnBWYXYGL-oVGns6Hb/view?usp=drive_web&authuser=0 |

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| 15 | 13 March 2021 | Population Genetics | https://drive.google.com/file/d/1djpCvXX2bU-DLHGOnYm0PqdP64XBmT8t/view?usp=drive_web&authuser=0 |
| 16 | 7 May 2021 | Ecology Concept and Scope | https://drive.google.com/file/d/1EONePpFBzXnxJFnuw8pedzkEMGbEyi2a/view?usp=drive_web&authuser=0 |
| 17 | 4 June 2021 | Temperature –An Ecological Factor | https://drive.google.com/file/d/1eEr44k8tSPwwABjTvqLuZdB2qeumufAz/view?usp=drive_web&authuser=0 |
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Dr. Archana S. Sawarkar

Subject- Zoology

Link/Class Code of Virtual Class Room

| Class | session | Class code | Class Invite link |
|-------------------|---------|------------|---|
| B.Sc.II (Zoology) | 2019-20 | k7x53mg | https://classroom.google.com/c/NDE0Njk2Mjc1MzNa?cjc=k7x53mg |
| B.Sc.II (Zoology) | 2020-21 | zbwhd5j | https://classroom.google.com/c/MTIyODE0OTE2NzMy?cjc=zbwhd5j |
| B.Sc.II (Zoology) | 2021-22 | nhflf5h | https://classroom.google.com/c/NDAzODM5NTMyNTAx?cjc=nhflf5h |

B.Sc. I (Sem I)

Practical

Digital gallery of Museum specimen (Non-chordates)

ppt link-

<https://docs.google.com/presentation/d/1IhA4gsFzbWtoW1GoCWtRMhnzMt31nyAF/edit?usp=sharing&ouid=103541347545856800732&rtpof=true&sd=true>

B.Sc. II (Sem III)

Practical

Digital gallery of Museum specimen (Chordates)

ppt link- https://drive.google.com/file/d/1h72B2_znel7_NffoCTrFF-g5q-_9KZft/view?usp=sharing

Rat Anatomy

ppt link- https://drive.google.com/file/d/1-PsPGrMpJWrbCBGmHxV-MkcienPR_hrL/view?usp=drive_web&authuser=0

Frog Anatomy

ppt link- https://drive.google.com/file/d/1wGsqVAqdiJjkOa8MEoYA-RJUP7miinfv/view?usp=drive_web&authuser=0

Theory

Topic- 1. General Characters of Phylum Chordata

Video link: <https://youtu.be/4ROtf5Hf-fU>

Topic- 2. External Features of Amphioxus

Video link: <https://youtu.be/YURgQ0--qaQ>

Topic- 3. Digestive System of Amphioxus

Video link: <https://youtu.be/uOyYPZsgFhk>

Topic- 4. Amphioxus: Physiology of Digestion

Video link: <https://youtu.be/NRmFEUv7x8A>

Topic- 5. Excretory organs of Amphioxus (Branchiostoma)

Video link: <https://youtu.be/JRqkXEgoOFk>

Topic- 6. External features of Scoliodon

Video link: <https://youtu.be/H5sYRZrCd-g>

Topic- 7. Digestive system of Scoliodon

Video link: <https://youtu.be/eQ8R49RKbqc>

Topic- 8. Respiratory system of Scoliodon

Video link : <https://youtu.be/aU16nlzgnZg>

B.Sc. II (Sem IV)

Notes - Unit 1

https://drive.google.com/file/d/13tFHkFGudnIpiA8qQBo-3MG4QoMYg676/view?usp=drive_web&authuser=0

B.Sc. III (Sem V)

Topic- 1. Composition and Functions of Blood

Video link: https://youtu.be/M_E9mokZIfY

Topic- 2. Structure of Human Heart

Video link: <https://youtu.be/fNZPhUtBlfs>

Topic- 3. Respiratory organ – Lungs

Video link: <https://youtu.be/sbGAtcPUzVU>

Topic- 4. Respiratory organ: Gills

Video link: <https://youtu.be/Y97F-gmMaIw>

B.Sc. III (Sem VI)

Topic- 1. Genetic Material and Griffith's Experiment

Video link: <https://youtu.be/o9bUW6tBbjc>

M.Sc. (Sem II)

Topic- 1. Adrenal glands disorders

<https://docs.google.com/document/d/1pbJeOJwZKs8uawtoYwoA6P7dK2d8jGi1/edit?usp=sharing&oid=103541347545856800732&rtpof=true&sd=true>

Topic- 2. Pituitary hormones disorders

<https://drive.google.com/file/d/1IeJ5wqG8CAMs1Qw2rlAD2ShiX9i9X7ps/view?usp=sharing>

Topic- 3. Parathyroid hormones and disorders

<https://docs.google.com/presentation/d/1dfc0CPQjmcB0cmudSWVRMui1448qxLqd/edit?usp=sharing&oid=103541347545856800732&rtpof=true&sd=true>

Topic- 4. Steroid and non-steroid hormones in reproduction

<https://docs.google.com/presentation/d/1aYqKINTqopun6znzUoR3dNFcbhC1eKPM/edit?usp=sharing&oid=103541347545856800732&rtpof=true&sd=true>

Name of the Teacher: Dr. Sudhir R. Kohchale

(B. Sc. I and B. Sc. III and Disaster Management)

1. <https://youtu.be/283MHBbMv1o>
2. <https://youtu.be/AKN-Q-6izFg>
3. https://youtu.be/73DEsUK0Y_Y
4. https://youtu.be/r6q5t8L_2yQ
5. <https://youtu.be/ERmcpX5a2Xg>
6. https://youtu.be/_6Qx8n0UXgs
7. <https://youtu.be/URoN0I5WmNw>
8. https://youtu.be/01mEzKXjJ_g
9. https://youtu.be/01mEzKXjJ_g
10. <https://youtu.be/4McqAFYNfAl>
11. <https://www.youtube.com/watch?v=xQte2BgYpio>
12. https://www.youtube.com/watch?v=1rE1Blhd_ag
13. <https://www.youtube.com/watch?v=3Ou49yI1JVg>
14. <https://www.youtube.com/watch?v=9uLmVzjVubE>
15. https://www.youtube.com/watch?v=73DEsUK0Y_Y&t=10s
16. <https://www.youtube.com/watch?v=0LBIT8gSDX8>
17. <https://www.youtube.com/watch?v=SLpQpQcndgc>
18. https://www.youtube.com/watch?v=Dd9lj6OrJ_w
19. <https://www.youtube.com/watch?v=LUUNChVrLZ0>
20. <https://www.youtube.com/watch?v=xQte2BgYpio>
21. <https://www.youtube.com/watch?v=ERmcpX5a2Xg>
22. <https://www.youtube.com/watch?v=BFcyGuqkWKs>
23. <https://www.youtube.com/watch?v=yYUVu8SLcB0>

In charge-Teacher: Dr. Rashmi Joshi Sawalkar

YouTube lectures Links for BSc I/Sem I 2020-21

YouTube Channel link: <https://www.youtube.com/channel/UC44vZ4own11CdZvPnAlopFQ>

Class Code and link for BSc I (2020-21) **d64iil5**
<https://classroom.google.com/c/MTcwMDE4ODE1MjAx?cjc=d64iil5>

| Unit from Syllabus | Lecture no. | Name of the Topic | You tube Link |
|--|-------------|---|---|
| BSc I/Sem I UNIT III Phylum Platyhelminthes & Aschelminths | Lect. 1 | Digestive System of Fasciola hepatica | https://www.youtube.com/watch?v=R9Mv-mdfao0&list=PLI_w3Lt_Yk3Gllg-H7n5ldIAbJARjF1F4&index=6&t=28s |
| | Lect. 2 | Reproductive system of Fasciola hepatica | https://studio.youtube.com/video/HQY8v-JDngo/edit |
| | Lect. 3 | Phylum Aschelminthes: General characters of Ascaris: | https://www.youtube.com/watch?v=tABA4x7nawQ |
| | Lect. 4 | Digestive System of Ascaris Lumbricoides | https://youtu.be/wNRexpWuYQ |
| | Lect. 5 | Male Reproductive system of Ascaris lumbricoides | https://youtu.be/RJiNMvfZB6g |
| | Lect. 6 | Female Reproductive system of Ascaris lumbricoides and Life Cycle of Ascaris. | https://youtu.be/hL-5DzooR8w |
| | Lect. 7 | Excretory system of A. Lumbricoides | https://youtu.be/RJFPB_DyNww |
| | Lect. 8 | Male Reproductive system of Ascaris lumbricoides | https://youtu.be/RJiNMvfZB6g |
| | Lect. 9 | Phylum Annelida: General characters of Cattle Leech: | |
| | Lect. 10 | External Features of Hirudinaria granulosa: | https://youtu.be/VEz6BCm_6EY |
| | Lect. 11 | Digestive System of Cattle Leech: | https://studio.youtube.com/video/I5QvMOW_EyNc/edit |

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| BSc I/Sem I UNIT IV Phylum Annelida & Arthropoda | Lect. 12 | Male Reproductive System of Cattle leech: | https://youtu.be/nqWXI8MMQLA |
| | Lect. 13 | Female Reproductive system of Cattle Leech: | https://studio.youtube.com/video/LGAP3BeSMWE/edit |
| | Lect. 14 | Excretory system of H. granulosa: | https://studio.youtube.com/video/1-3VhNMH2vc/edit |
| | Lect. 15 | Cocoon Formation and Life cycle of cattle leech | https://studio.youtube.com/video/nlhTBiv8ipU/edit |
| | Lect. 16 | General Characters and Classification of Phylum Arthropoda | https://www.youtube.com/watch?v=Mzgl7mykK8 |
| | Lect. 17 | External Features of Cockroach | https://youtu.be/l84bGfdSRW8 |
| | Lect. 18 | Digestive System of Cockroach | https://youtu.be/syVVMbQfyhY |
| | Lect. 19 | Male Reproductive System of Cockroach | https://studio.youtube.com/video/yQ68l94r94Q/edit |
| | Lect.20 | Female Reproductive system of Cockroach | https://studio.youtube.com/video/LKuD5INc3rk/edit |
| | Lect. 21 | Life Cycle of Cockroach | https://studio.youtube.com/video/teWruT60YBQ/edit |
| | Lect. 22 | | |