



Title of the paper: Animal Physiology (Allied-11)

Contact Hours per week: 4

Credits: 2

Contact Hours per semester: 60

Subject Code: UIMBA41

Objectives:

- 1) To develop basic knowledge about the types of animals.
- 2) To create awareness about the various systems in our body & their Significance.
- 3) To improve the notion of mechanism behind the physiological activities.
- 4) Enlight the students about the human Hormones & reproduction.

Unit-I

(12 Hours)

General characters and Classification of Invertebrates - Protozoa, Porifera, Coelenterata, Platyhelminthes, Aschelminthes, Annelida, Arthropoda, Mollusca and Echinodermata. General characters and Classification of Chordates - Pisces, Amphibia, Reptilia, Aves and Mammalia.

Unit-II

(12 Hours)

Digestive, respiratory, excretory and reproductive system of cockroach and frog.

Unit-III

(12 Hours)

Digestive, respiratory, excretory and reproductive system of Pigeon.

Unit-IV

(12 Hours)

Digestive system (various steps in digestion), respiratory system, excretory system of human. Circulatory system: composition of blood, organization of circulatory system in human.

Unit-V

(12 Hours)

Reproductive system in human – types and role of Endocrine hormones - Menstrual cycle.

Text books:

Unit-I

1. E.L. Jordan and P.S.Verma (1995) Invertebrate Zoology, S.Chand & co. New delhi.
2. E.L.Jordan and P.S.Verma (1995) Chordate Zoology, S.Chand & co.

Unit-II

1. E.Babsky et al. Human physiology - MIR publishers.
2. K.A.Goyal-Animal physiology - Rastogi publications.

Unit-III

1. J. Lee. Animal hormones - Hutchinson & co (publishers) Ltd.
2. K.A.Goyal-Animal physiology - Rastogi publications.
3. E.Babsky et al. Human physiology - MIR publishers.
4. Sambasivan et al, Animal physiology - S.Chand & co.

Unit-IV

1. P.G.Puranik, R.S.Thakur. Invertebrate Zoology - S.Chand & co.
2. E.L.Jordan and P.S.Verma (1995) Invertebrate Zoology, S.Chandra & co. New Delhi.
3. E.L.Jordan and P.S.Verma (1995) Chordate Zoology, S.Chand & co.

Unit-V

1. P.G.Puranik, R.S.Thakur. Invertebrate Zoology- S.Chand & co.
2. E.L.Jordan and P.S.Verma (1995) Invertebrate Zoology, S.Chand & co. New Delhi.

References:

1. E.L. Jordan and P.S.Verma (1995) Invertebrate Zoology, S.Chand & co. New Delhi.
2. E.L. Jordan and P.S.Verma (1995) Chordate Zoology, S.Chand & co. New Delhi.



VIRUDHUNAGAR HINDU NADARS' SENTHIKUMARA NADAR COLLEGE

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3. K.A.Goyal- Animal physiology - Rastogi publications.
4. W.T.Tailor and R.J.Wehe: General biology, Eastwest press pvt ltd.
5. A.J.Grove - Animal biology - University tutorial press ltd.