

SEMESTER VI – ELECTIVE - III B

UEZOF20 – PARASITOLOGY

Year	SEM	Course code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks
III	VI	UEZOF20	Parasitology	Theory	Core Elective	5	5	100

Objectives:

- To learn the life cycle, disease and treatment of various parasites of Human
- To create awareness about health and hygiene

Course Outcomes:

On completion of the course the student will be able to...

CO1: Discuss about parasites.

CO2: Describe host parasite interaction.

CO3: Discuss pathology of protozoan parasites.

CO4: Describe the pathology of Helminth parasites.

CO5: Explain Arthropod role as parasites and vectors.

CO/PO	PSO					
	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	H	H	L	M	H	L
CO2	H	H	L	M	H	L
CO3	H	H	L	M	H	L
CO4	H	H	L	M	H	L
CO5	H	H	L	M	H	L

CO/PO	PO					
	PO1	PO2	PO3	PO4	PO5	PO6
CO1	H	H	H	M	M	M
CO2	H	H	H	M	M	M
CO3	H	H	H	M	M	M
CO4	H	H	H	M	M	M
CO5	H	H	H	M	M	M

Unit 1:

Hours)

- 1.1: Terminology - nature of Parasitism.(K1, K2, K3)
- 1.2: Parasites and food habits.(K1, K2, K3)
- 1.3: Origin of parasitism-kinds of parasitism.(K1, K2, K3)
- 1.4: General relation to hosts.(K1, K2, K3)
- 1.5: Definitive and intermediate hosts.(K1, K2, K3)
- 1.6: Parasitic adaptation.(K1, K2, K3)

Unit 2:

- 2.1: Effects of parasites on hosts.(K1, K2, K3)
- 2.2: Immunity.(K1, K2, K3)
- 2.3: Age resistance.(K1, K2, K3)
- 2.4: Tolerance to injurious effects.(K1, K2, K3)
- 2.5: Spread to new hosts.(K1, K2, K3, K4)

(15

(15 Hours)

2.6: Community spread.(K1, K2, K3, K4)

Unit 3: (15 Hours)

3.1: Morphology, Life cycle, mode of infection, pathogenesis, treatment and prophylaxis of Protozoan parasites – *Plasmodium vivax*.(K1, K2, K3)

3.2: *Entamoeba histolitica*.(K1, K2, K3)

3.3: *Balantidium*.(K1, K2, K3)

3.4: *Leshmania*.(K1, K2, K3)

3.5: *Trypanosoma*.(K1, K2, K3)

3.6:*Giardia intestinalis*. (K1, K2, K3)

Unit 4: (15 Hours)

4.1:Morphology, Life cycle, mode of infection, pathogenesis, treatment and prophylaxis of Helminthes parasites- *Ascaris*.(K1, K2, K3)

4.2: *Ancylostoma*.(K1, K2, K3)

4.3: *Wuchereria*. (K1, K2, K3)

4.4: *Schistoma*.(K1, K2, K3)

4.5: *Taenia solium*.(K1, K2, K3)

4.6: *Trichuris trichiura*. (K1, K2, K3)

Unit 5: (15 Hours)

5.1: Parasitic Arthropods- degree of parasitism.(K1, K2, K3)

5.2: As vectors Indirect, direct and biological transmission.(K1,K2, K3)

5.3: Indirect, direct and biological transmission-Mosquitoes.(K1, K2, K3)

5.4: Indirect, direct and biological transmission- Flies.(K1, K2, K3)

5.5: Indirect, direct and biological transmission- Fleas and bugs.(K1, K2, K3)

5.6: Indirect, direct and biological transmission – Ticks and Mites. (K1, K2, K3)

Books for Study and Reference:

Textbooks:

1. Panicker - Textbook of Medical Parasitology, 4th edition, Jaypee Brothers, 1977.

2. Subhash Chandra Parija – Text book of Parasitology, All India Publishers and Distributors, 2000.

Reference Books:

3. Chandler C. - ASA and Read C.P, Wiley Eastern University Ed, 10th edition, 1970.

4. Bush *et al.* – Parasitism - Cambridge University Press, 2001.

5. R.L.Ichhpujari, Rajesh Bhatia – Medical Parasitology, Jaypee Brothers, 1994.

6.Clark .P Read – Animal Parasitism , Prentice, Hall of India, 1977.

7. W. Crave- A Guide to Human Parasitology, 10th edition, the English Language Book Society and H.K.Lewis and Co, 1970.

E-Resources:

<https://www.cdc.gov>

<https://parasite.org.au>

<http://www.parasitesinhumans.org>

SKILL-BASED COURSE - I

USZOA120/USZOA220 - PUBLIC HEALTH AND HYGIENE

Year	SEM	Course code	Title of the Course	Course Type	Course Category	H/W	Credits	Marks
I	I & II	USZOA120/ USZOA220	Public Health And Hygiene	Theory	Skill Based Elective	2	2	100

Objective:

- To highlight the various dimensions of human health with reference to nutrition, environment and disease.
- To gain basic knowledge about health and hygiene

Course Outcomes:

On completion of the course the student will be able to...

CO1: Impart knowledge about health and diseases.

CO2: Acquire knowledge about nutrition and classification of food.

CO3: Analyze the interaction and impact of the environment on health.

CO4: Expand knowledge about communicable diseases and its prevention.

CO5: Improve the quality of life through prevention and treatment of non-communicable disease.

CO/PSO	PSO					
	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO2	H	H	M	H	H	M
CO3	H	H	M	H	H	M
CO4	H	H	M	H	H	M
CO5	H	H	M	H	H	M

CO/PO	PO					
	PO1	PO2	PO3	PO4	PO5	PO6
CO1	H	H	H	H	H	M
CO2	H	H	H	H	H	M
CO3	H	H	H	H	H	M
CO4	H	H	H	H	H	M
CO5	H	H	H	H	H	M

Unit 1: (6 Hours)

1.1: Introduction. (K1, K2, K3)

1.2: Terms and definitions. (K1, K2, K3)

1.3: Scope of Public Health and Hygiene. (K1, K2, K3)

1.4: Concepts of Health and Disease. (K1, K2, K3)

1.5: Sources and function of macro nutrients. (K1, K2, K3)

1.6: Sources and function of micro nutrients. (K1, K2, K3)

Unit 2: (6 Hours)

2.1: Nutrition and Health. (K1, K2, K3)

2.2: Classification of foods. (K1, K2, K3)

2.3: Carbohydrates, Proteins, fats. (K1, K2, K3)

2.4: Vitamins deficiency, food hygiene. (K1, K2, K3)

2.5: Balance diet. (K1, K2, K3)

2.6: Nutritional requirements of special groups. (K1, K2, K3, K4)

Unit 3: (6 Hours)

- 3.1: Environment and Health. (K1, K2, K3)
- 3.1: Pollution effect on health- Water, Air. (K1, K2, K3)
- 3.3: Pollution effect on health- Noise. (K1, K2, K3)
- 3.4: Pollution effect on health - Land. (K1, K2, K3)
- 3.5: Climate change. (K1, K2, K3)
- 3.6: Pandemic diseases. (K1, K2, K3)

Unit 4:(6 Hours)

- 4.1: Epidemiology of Communicable Diseases. (K1, K2, K3)
- 4.2: A brief account of respiratory infections. (K1, K2, K3)
- 4.3: Measles. (K1, K2, K3)
- 4.4: Intestinal infections- Amoebiasis. (K1, K2, K3)
- 4.5: Arthropod borne diseases- Malaria. (K1, K2, K3)
- 4.6: STD and AIDS. (K1, K2, K3)

Unit 5:(6 Hours)

- 5.1: Non – Communicable Diseases and Conditions. (K1, K2, K3)
- 5.2: Diabetes mellitus. (K1, K2, K3)
- 5.3: Obesity. (K1, K2, K3)
- 5.4: Mental health: Causes of mental ill-health. (K1, K2, K3)
- 5.5: Stress and strain. (K1, K2, K3)
- 5.6: Eating disorders. (K1, K2, K3)

Books for Study and Reference:

Textbooks:

1. Park J.E. and Park K. - A Textbook of Preventive and Social Medicine - M/S. Banarsidas Bhanot Publishers, Jabalpur, 1986.
2. Verma S. - Medical Zoology - Rastogi Publications, New Delhi, 1998.

Reference Books:

3. Group Nutrition Intervention, Management Manual - Dept. of Food, Ministry of Agriculture, Govt. of India, 1982.
4. Raven, Peter, H. and Johnson, George B. - Understanding Biology - Mosby Year Book, U.S.A., 1994.
5. Swaminathan M. - Advanced Text Book on Food and Nutrition Vol. I and Vol. II – The Bangalore Printing and Publishing Co., Ltd., Bangalore, 1993.

E-Resources:

- <https://www.cdcfoundation.org>
- <https://www.publichealth.pitt.edu>
- <https://www.tnhealth.org>