



Government of Tamilnadu

Department of Employment and Training

Course : TNPSC Group II Exam

Subject : Zoology

Topic : **Human Diseases**

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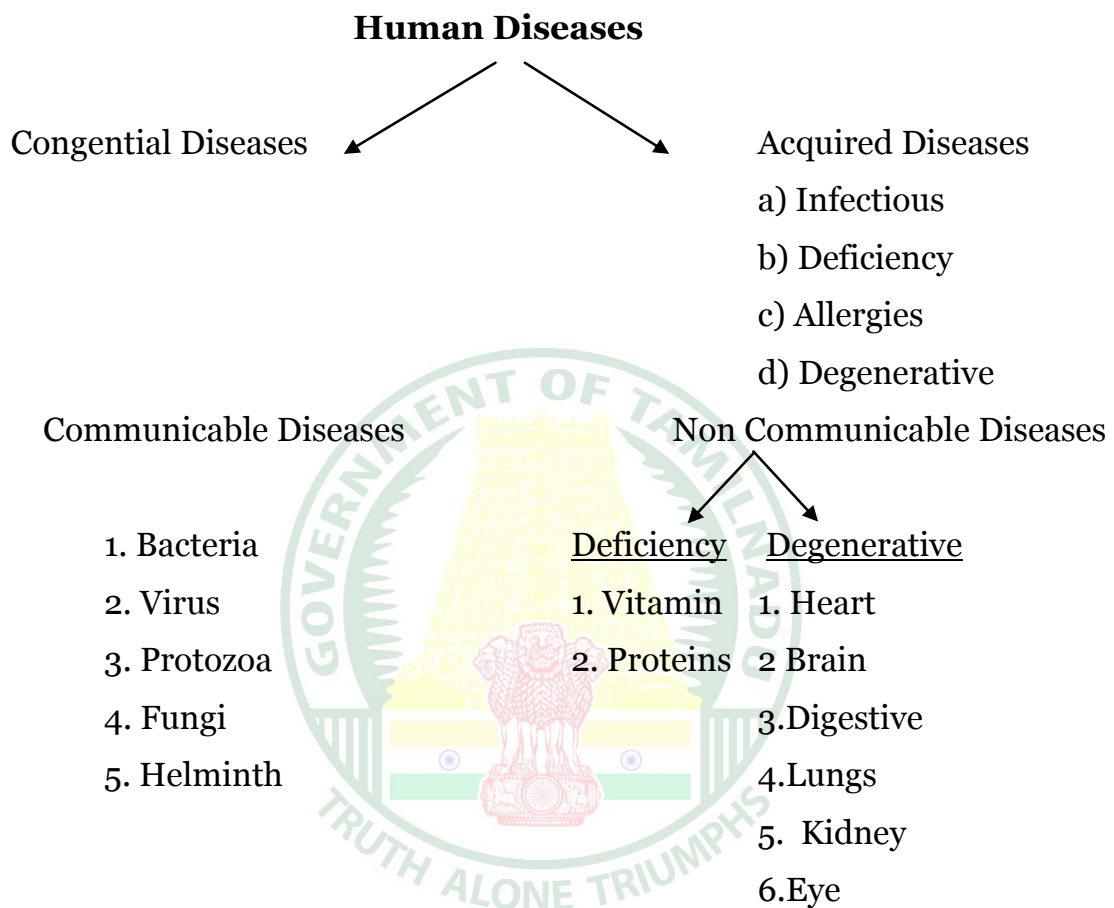
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**Commissioner,
Department of Employment and Training.**

HUMAN DISEASES

Disease

Disease is a condition of the body or a part of it in which functions are disturbed



1. Bacteria :

Diseases	Causative agent
Thyphoid	Salmonella typhosa
Tetanus	Clostridium tetani
Cholera	Vibrio cholera
Syphilis	Troponema pallidum
Pneumonia	Diplococcus pneumonia
Gonorrhoea	Nesseria gonorrhoeae

HUMAN DISEASES

Leprosy	Mycobacterium leprae
Plague	Bacillus yersinia pestis
Tuberculosis	Mucobacterium
Whooping cough	tuberculosis
Meningitis	Berdetall pertussis
Diptheira	Neisseria meningitides
	Cornebacterium
	diptheria

2. Virus:

Virus	Family
HIV virus	Retrovirus
Chicken pox	Orthomyzovirus
Influenze	Paramyxovirus
Measles	Paramyxovirus
Mumps	Togavirus
German Measles	Enterovirus
Poliomyelitis	Rabdovirus
Rabies	Rabdovirus

3. Fungi :

Name of Disease	Causative Agent
Dermatitis	Epidermophyton
Candiasis	Candido albigans
Liverrosis	Asper flavus
Allergy	Asper gillus
Drug	Claviceps purpuria

4. Protozoa :

Name of Disease	Causative agent	Vector	Parts affected/symptoms
African sleeping sickness	Trypanosome gambiense	Tse – tse	Blood and nervous tissue.
	Entamoeba histolytica	---	Pain in abdomen.
Amoebic Dysentery	Leishmania donovani	Sand fly	Spleen and liver enlarge and high fever develops.
Kala Azar	Plasmodium sp	Female anopheles mosquito	Periodical attack of high fever, pain joints
Malaria	i) p. vivax	”	accompanied by
	ii) p. falciparum	”	chill heavy
	iii) p. malariae	”	perspiration and
	iv) p. ovale	”	fast pulse.

5. Helminth :

Name of Disease	Causative agent	vector	Parts affected/symptoms
Ascariasis	Ascaris lumbricoides	----	loose motions.
Elephantiasis or filariasis	Wuchereria bancrofti	Female culex mosquito	Anaemia, abnormal enlargement and swelling of legs.
		snail	
Schistosomiasis	Schistosoma haematobium	pig	Itching rashes fever and eosinophilia
Taenuasis	Tenia solium		General weakness

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6. Vitamin : VIT – A :

Name	Discovered	Deficiency
Retinol Antixerophthalmic vitamin anti infection vitamin	Maccallum 1913	Xerophthalmia Nyctalopia Dermatosis Keratomalacia

VIT – D :

Name	Discovered	Deficiency
Calciferol, antirachitic, Sunshine Vit	Maccullum 1922	Osteomalacia, Rickets, tetany

VIT – E :

Name	Discovered	Deficiency
Tocopherol, Antisterility	Mattil & Conklin; 1920	Muscular atrophy Sterility

VIT – K :

Name	Discovered	Deficiency
Antihamorrhagic	Dam 1935	Haemorrhage due to defective blood coagulation

VIT – B Complex

Vitamins	Name	Discovered	Deficiency
B1	Thiamine	Janson & donath 1926	Beri-beri
B2	Riboflavin	War burgh & Christian 1932	Chilosis, keratosis
B3	Pantothenic acid	Williams; 1933	Nervous disorders

B5	Nicotinic acid, niacin	Kesal 1935	pellagra
B7	Biotin	Bateman 1916	Dermatits, thickening of skin
B9	Folic acid	Day	Nutritional disorder, Retarded growth
B12	Cyanocobalamin or cobalamin	Smith & parker 1948	Megaloblastic or pernicious anaemia, hyperglycaemia
Vit C	Ascorbic acid	Szent gyorgi 1928	Scurvy, malformation of teeth, bones and gums

7. Proteins :

Diseases	Causes
Marasmus	Weight loss in children, dysentery, skin is coated over body.
kwashiorkor	Muscles become thin face and stomach becomes bulgy

8. Heart :

Diseases	Causes
Myocardial infraction	Death
Heart pain	Due to oxygen Deficiency
Arteriosclerosis	Blood arteries swallon in size
Heart block	Waves do not pass to ventricles.
Blood pressure	Average 120 / 80 mm hg / by : Sphygmomanometer.

9. Brain

Diseases	Causes
Amnesia	Memory loss
Parkinson	Paralysis
Huntington chorea	Body movement paralysed (Third generation)
Block	Blood vessel collapse
Head ache	Brain membrane swelling
Herpes zoster	Skin disease
Alzheimer	Continuous memory loss
Epilepsy	Excessive function of CNS
Edema	Blood leak in blood vessels

10. Digestive :

Diseases	Causes
Peptic ulcer	More secretion of Hcl
Hereneia (hernia)	Busrtruptuned (pain)
Appendix	Small intestinal bulge
Gall bladder stone	Stone formation above 40 years
Hepatitis	Malfunction of liver

11.; Lungs :

Diseases	Causes
Pneumonia	Blood stroge in alveoli 1. virus 2. bacteria
T.B	1. bacteria
Bronchitis	Shrunken alveoli
Chronic Bronchitis	Swallon alveoli
Asthma	Shrunken bronchi

12. Kidney :

Diseases	Causes
Kidney malfunction	Pressure increased
Kidney stones	Pain
Diabetes mellitus (insulin dependent)	Polyurea, polydypsia, polyphagia

13. Eye :

Name of Diseases	Effects / symptoms
Myopia	Short sightedness (Bioconcave lens)
Hypermetropia	Far sightness (Biconvex lens)
Cataract	Lens becomes opaque - Normal vision in hampered, blindness may be caused

Agencies involved in Control of Diseases

The following are involved in control of diseases:

- National Leprosy Eradication Programme (NLEP) – to eradicate leprosy
- Massive Polio immunisation campaign to arrest polio completely
- National Tuberculosis Programme – NTP to eradicate Tuberculosis
- National Filaria Control Programme (NFCP) – to eradicate Filaria
- National Malaria Eradication Programme (NMEP) – to stamp out Malaria
- The National Immunisation programme in India – recommends Measles vaccination MMR between 9 and 15 Months of age
- Global immunisation programme for children to protect them against six preventable diseases DPT, Polio, Tuber Culosis and Measles.
- The state AIDS cell started functioning in Tamilnadu from 1990 to create awareness about AIDS.

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14. Latest Disease:

Disease	Causes	Origin and Affected Areas	Year	Pathogen
Severe Acute Respiratory Syndrome (SARS)	Fever of 38°C (100°F) or higher and shortness of breath	Southern China	2002	SARS Corona virus (SARS – COV)
Zika Virus	<ol style="list-style-type: none"> Increase neurologic complications Infection during pregnancy cause microcephaly in infants 	Zika forest of Uganda	1947	Aedes Mosquitoes such as A.aegypti A.albopictus
Ebola Virus (EBOV)	<ul style="list-style-type: none"> Decrease the function of Liver and Kidneys Highrisk of death 	West Africa	2013-2015	Zaire Ebola Virus
Dengue Fever (Dengue Virus)	<ul style="list-style-type: none"> Muscle and joint Higher Fever 	Across world	Since second world war	Aedes Mosquitoes principally A.aegypti
Swine influenza	<ul style="list-style-type: none"> Fever Muscle pains Respiratory problems 		1918, In India – 2015	Swine in Fluenza Virus (SIV)