

Syllabus for the post of

**(1) Associate Professor, Skin and V. D. (Dermatology, Venereology and Leprosy)
Class-I (Advt. No.: 60/2019-20)**

Marks – 200

Questions – 200

Medium - English

1. Topics related to allied basic sciences:

The structure, functions and development of human skin, Ultrastructural aspects of epidermis, epidermal appendages, dermo-epidermal junction, dermis, and subcutis, Immunology, molecular biology and genetics in relation to the skin, Epidermal cell kinetics and keratinization, Lipids of epidermis and sebaceous glands, Percutaneous absorption, Skin as an organ of protection and thermoregulation, Biology of eccrine and apocrine sweat glands, Biology of melanocytes and melanin formation, Biology of hair follicles, sebaceous glands and nails, Epidermal proteins, Dermal connective tissue: collagen, elastin, reticulin, basement membrane and ground substance, Metabolism of carbohydrates, proteins, fats and steroids by the skin, Cutaneous vasculature and vascular reactions, Mechanism of cutaneous wound healing, Cellular and molecular biology of cutaneous inflammation and arachidonic acid metabolism, Immunologic aspects of epidermis, Human leukocyte antigen (HLA) system, Immunoglobulins, Cytokines and chemokines, Lymphocytes, neutrophils, eosinophils, basophils and mast cells, Complement system, Hypersensitivity and allergy, Cutaneous carcinogenesis (chemical, viral and radiation), Basics of cutaneous bacteriology, mycology, virology, parasitology and host resistance, Common laboratory procedures, stains, culture media etc. related to the cutaneous diagnosis, Basic pathologic patterns and reactions of skin, Common laboratory stains and procedures used in the histopathologic diagnosis, Basic pathologic patterns and reactions of skin, Common laboratory stains and procedures used in the histopathologic diagnosis, Immunologic aspects of epidermis, Human leukocyte antigen (HLA) system, Immunoglobulins, Cytokines and chemokines, Lymphocytes, neutrophils, eosinophils, basophils and mast cells, Complement system, Hypersensitivity and allergy, Cutaneous carcinogenesis (chemical, viral and

radiation), Basics of cutaneous bacteriology, mycology, virology, parasitology and host resistance, Common laboratory procedures, stains, culture media etc. related to the cutaneous diagnosis, Basic pathologic patterns and reactions of skin, Common laboratory stains and procedures used in the histopathologic diagnosis of skin diseases and special techniques such as immunofluorescence, immunoperoxidase and other related techniques.

2. Clinical Dermatology:

Epidemiology of cutaneous disease, Psychologic aspects of skin disease and psycho-cutaneous disorders, Pathophysiology and clinical aspects of pruritus.

3. Papulosquamous diseases

Psoriasis, pityriasis rubra pilaris, pityriasis rosea, Parapsoriasis, lichen planus, lichen nitidus, Palmo-plantar keratodermas, Darier's disease, porokeratosis, Ichthyoses and ichthyosiform dermatoses, Kyrle's disease and other perforating disorders.

4. Vesiculo - bullous disorders

Erythema multiforme, Stevens-Johnson syndrome, Toxic epidermal necrolysis, Bullous pemphigoid, Pemphigus, Chronic bullous disease of childhood, Herpes gestationis (pemphigoid gestationis), Hereditary epidermolysis bullosa, Epidermolysis bullosa acquisita, Dermatitis herpetiformis, Familial benign pemphigus. Subcorneal pustular dermatoses, Pustular eruptions of palms and soles.

5. Disorders of epidermal appendages and related disorders

Disorders of hair and nails, Disorders of sebaceous glands, Rosacea, Perioral dermatitis, acne, Disorders of eccrine and apocrine sweat glands, Follicular syndromes with inflammation and atrophy

6. Epidermal and appendageal tumours:

Precancerous lesions, squamous cell carcinoma and basal cell carcinoma, Keratoacanthoma, benign epithelial tumours, appendageal tumours, Merkel cell carcinoma, Paget's disease

7. Disorders of melanocytes:

Disorders of pigmentation, albinism, benign neoplasia and hyperplasias of melanocytes, dysplastic melanocytic nevi, cutaneous malignant melanoma

8. Inflammatory and neoplastic disorders of the dermis:

Acute febrile neutrophilic dermatosis (Sweet's syndrome), Erythema elevatum diutinum, Cutaneous eosinophilic diseases, Granuloma faciale, Pyoderma gangrenosum, Erythema annulare centrifugum and other figurate erythemas, Granuloma annulare, Malignant atrophic papulosis (Dego's Disease), Neoplasms, pseudoneoplasms and hyperplasias of the dermis, Vascular anomalies, Kaposi's Sarcoma, Anetoderma and other atrophic disorders of the skin, Ainhum and pseudoainhum, Neoplasias and hyperplasias of neural and muscular origin, Elastosis perforans serpiginosa and reactive perforating collagenosis

9. Lymphomas, pseudolymphomas and related condition:

1. Disorders of subcutaneous tissue
2. Disorders of the mucocutaneous integument
3. Cutaneous changes in disorders of altered reactivity
4. Skin changes due to mechanical and physical factors
5. Photomedicine, photobiology and photo immunology in relation to skin
6. Disorders due to drugs and chemical agents
7. Dermatology and the ages of man
8. Skin lesions in nutritional metabolic and heritable disorders
9. Skin manifestations of hematologic disorders
10. Skin manifestations of systemic disease
11. Skin Manifestations Of Rheumatologic Disease
12. Cutaneous Manifestations Of Disease In Other Organ Systems
13. Bacterial Diseases With Cutaneous Involvement
14. Fungal Diseases With Cutaneous Involvement
15. Viral And Rickettsial Disease

10. Therapeutics: Topical Therapy, Topical Agents, Systematic Therapy

11. Surgery in dermatology:

Dermatologic Surgery: Introduction and Approach, Skin Resurfacing: Chemical Peels, Skin Resurfacing: Dermabrasion, Skin Resurfacing: Laser, Skin punch grafting, Wound Dressings, Cryosurgery, Nail Surgery

12. Venereology:

Clinical approach to the patient of sexually transmitted disease, Anatomy of male and female genitalia, Epidemiological aspects of STDs, Viral STDs including HIV, Herpes, Human Papilloma virus (HPV), Molluscum contagiosum, Espirito Santo virus (ESV) etc, Bacterial STD's: Syphilis, Gonorrhoea, Chancroid, Donovanosis, Chlamydial infections: Lymphogranuloma venereum, urethritis, cervicitis, nongonococcal urethritis (NGU), non-specific vaginitis etc, Fungal: Candidiasis
Protozoal: Trichomoniasis, Ectoparasitic: Scabies, Pediculosis infestations, Syndromic management of STDs, HIV/AIDS - Epidemiology, transmission, patient load, High risk groups, cutaneous manifestations of HIV, treatment of opportunistic infections, antiretroviral therapy, management of STDs in HIV positive cases, STDs in reproduction health and Pediatrics, STDs and HIV, Prevention, counselling and education of different STDs including HIV, National Control Programmes of STDs and HIV infection, Medico-legal, social aspects of STDs including psychological and behavioural abnormalities in STD patients

13. Leprosy:

Approach to the patient with leprosy, Epidemiological aspects, Structure, biochemistry, microbiology of Mycobacterium leprae, Animal models, Pathogenesis, Classification, Immunology and molecular biological aspects, Histopathology and diagnosis including laboratory aids, Clinical features, Reactions, Systemic involvement (Ocular, bone, mucosa, testes and endocrine etc.), Pregnancy and leprosy, HIV infection and leprosy

14. RESEARCH METHODOLOGY.

15. MEDICO LEGAL ASPECTS RELEVANT TO THE DISCIPLINE.

16. INDIAN MEDICAL COUNCIL (PROFESSIONAL CONDUCT, ETIQUETTE AND ETHICS) REGULATIONS, 2002.

17. CURRENT TRENDS AND RECENT ADVANCEMENTS IN THE FIELD OF DERMATOLOGY, VENERELOGY, LEPROSY .