

DERMATOLOGY AND VENEREOLOGY

PAPER- I

Time : 3 hours

DVD/D/11/06/I

Max. Marks : 100

Attempt all questions in order.

Each question carries 10 marks.

1. a. When calculating sample size in a clinical trial, what is meant by:
 - i. Power of study 2
 - ii. Level of significance 2
- b. What is meant by doing a study according to good clinical practice guidelines? 3
- c. What is meant by strength of evidence and quality of evidence in a clinical trial? 3
2. a. Discuss the structure of desmosome. 3
- b. What are the immunological components of a desmosome? 3
- c. What is the role of desmosomes in blistering diseases? 4
3. a. What is an epidermal-melanin unit? 2
- b. Discuss the structure of melanocyte under the following heads:
 - i) Light microscopy appearance 3
 - ii) Electron microscopy appearance 3
 - iii) Special techniques to study melanocytes 2
4. a. Discuss the characteristics of autosomal recessive genodermatosis. 4
- b. Describe briefly techniques used to diagnose genodermatosis antenatally. 4
- c. Discuss genetic mosaicism. 2
5. a. Discuss the laboratory investigations done to evaluate a child with mechanico-bullous disorders. 5
- b. Discuss the laboratory evaluations done to evaluate an adult with immuno-bullous disorders. 5
6. A 55 years old farmer presents with a suspected fungal infection on his foot. Discuss the evaluation of such a patient under the following headings:
 - a. Clues in history 1
 - b. Clues in morphology of lesions 2
 - c. Sample collection 1
 - d. Direct microscopy 2
 - e. Histopathology 2
 - f. Other investigations 2

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- 7. Discuss the pathogenesis of psoriasis under the following:
 - a. Role of genetic factors 3
 - b. Role of T-cells 3
 - c. Role of dendritic cells 1
 - d. Role of cytokines 3

- 8.
 - a. Enumerate the resident flora of skin. 2
 - b. Outline the methods of sampling normal flora. 2
 - c. What is the function of normal flora on the skin? 2
 - d. Discuss one disease caused by resident flora. 4

- 9.
 - a. Enumerate the components of solar rays. 2
 - b. Discuss the role of UVA, UVB in health. 2
 - c. Discuss the role of UVA, UVB in :
 - i) Ageing 2
 - ii) Pigmentation 2
 - iii) Carcinogenesis 2

- 10. Discuss the value of the following tests in evaluating a patient of 'allergy':
 - a. Patch test 4
 - b. Photo-patch test 2
 - c. Skin prick test 2
 - d. RAST 2

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PAPER- II

Time : 3 hours
Max. Marks : 100

DVD/D/11/06/II

Attempt all questions in order.
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1. a. What are the clinical and histopathological differences between lentiginos and freckles? Enumerate four syndromes associated with lentiginos. 3
2
- b. Enumerate four syndromes associated with café au lait macules. 2
- c. What are the clinical features of Peutz Jegher's syndrome? 3
2. a. Classify dermatosis of pregnancy. 2
- b. Discuss the clinical presentation of pemphigoid gestationis. 4
- c. How will you manage an 8 month pregnant woman with pemphigoid gestationis? 4
3. a. Discuss the differential diagnosis of skin lesions in a seborrhoeic distribution. 5
- b. Discuss the differential diagnosis of skin lesions on pressure points. 5
4. Tabulate the differences between:
 - a. Variegate porphyria and porphyria cutanea tarda 5
 - b. Palmoplantar psoriasis and hyperkeratotic eczema. 5
5. a. What are the criteria for making a diagnosis of tuberculides? 2
- b. Discuss papulonecrotic tuberculide under the following heads:
 - i) Clinical features 4
 - ii) Biopsy findings 2
 - iii) Treatment 2
6. Discuss the use of the following drugs:
 - a. Rituzimab in pemphigus 2
 - b. Dapsone in lichen planus 2
 - c. Steroids in toxic epidermal necrolysis 2
 - d. Acyclovir in erythema multiforme 2
 - e. Thalidomide in Behcet's syndrome 2
7. a. Classify alopecia 2
- b. Discuss medical management of different types of cicatricial alopecia. 4
- c. Discuss the surgical management of cicatricial alopecia. 4

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- 8. A 38 year old female patient needs to be prescribed steroids for several months.
 - a. What advice would you give her about using the drug? 2
 - b. How would you monitor her? 4
 - c. What additional drugs would need to be given to her to counter some of the side effects and why? 4
- 9.
 - a. Classify cutaneous leishmaniasis. 2
 - b. What is the geographic distribution of leishmaniasis in India? 2
 - c. How will you manage a patient of post Kala azar dermal leishmaniasis? 6
- 10. Discuss the management of a 19 year old female patient with hirsutism. 10

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PAPER- III

Time : 3 hours
Max. Marks : 100

DVD/D/11/06/III

Attempt all questions in order.
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1. a. Enumerate the bullous disorders associated with internal malignancies. 2
b. Discuss the clinical manifestations of pancreatic tumours as seen on the skin. 4
c. Discuss clinical manifestations of secondaries of malignant tumors seen on the skin. 4
2. Describe the cutaneous manifestations of :
 - a. Hypothyroidism 2
 - b. Addison's disease 2
 - c. Hyperthyroidism 2
 - d. Vitamin C deficiency 2
 - e. Riboflavin deficiency 2
3. a. Classify xanthomas. 2
b. How would you evaluate a patient who presents with multiple tuberous xanthomas? Discuss under the following heads:
 - i) Clinical features including history 4
 - ii) Laboratory evaluation 2
 - iii) Systemic features 2
4. a. How would you monitor a patient of ichthyosis on oral retinoids? 5
b. How would you monitor a patient of pustular psoriasis on methotrexate? 5
5. a. Discuss the extra-cutaneous manifestations of a patient with systemic sclerosis. 10
6. b. Define mastocytosis 1
c. Classify mastocytosis 2
d. What are the criteria for diagnosis of systemic mastocytosis? 4
e. Discuss the histopathology of one clinical type of mastocytosis. 3

7. a. Discuss the metabolism of zinc in the human body. 2
b. Enumerate the causes of zinc deficiency. 2
c. Discuss the clinical features and treatment of acrodermatitis 6
enteropathica.
8. Discuss the management of a 2 year old child who presents with 4
recurrent skin and chest infections. An elder sibling of the child 4
also had similar severe complaints and died of pneumonia.
Discuss your answer under the following heads:
a. History 2
b. Examination 2
c. Lab investigations, if all facilities are available. 6
9. a. Discuss the staging of mycosis fungoides. 5
b. Discuss the staging of malignant melanoma. 5
10. Discuss the management of :
a. Acute generalized exanthematous pustulosis 2
b. Fixed drug eruption 2
c. Steroid acne 2
d. Cyclosporine induced hypertrichosis 2
e. Minocycline induced pigmentation. 2

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PAPER- IV

Time : 3 hours
Max. Marks : 100

DVD/D/11/06/IV

Attempt all questions in order.
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1. Discuss the manifestations of leprosy in
 - a. Kidney 2
 - b. Gonads 4
 - c. Eye 4

2. Tabulate the differences between borderline tuberculoid leprosy and borderline lepromatous leprosy under the following headings:
 - a. Morphology and character of lesions. 3
 - b. Nerve involvement 3
 - c. Lepromin test 1
 - d. Histopathology 3

3. Discuss the following aspects of leprosy elimination program:
 - a. Elimination 1
 - b. Eradication 1
 - c. New case detection rate. 1
 - d. Disability in leprosy 2
 - e. New parameters used. 5

4. Discuss the management of leprosy in the following situations:
 - a. Pregnancy 2
 - b. Type 1 reaction 4
 - c. Type 2 reaction 4

5. Discuss the pathogenesis of nerve damage in leprosy. 10

6. A 19 year old sexually active male presents with a laboratory report of HIV positive. How would you :
 - a. Clinically evaluate the patient 3
 - b. Counsel him 2
 - c. Investigate him 5

7. Discuss the serological tests available for diagnosis of:
 - a. Syphilis 4
 - b. Chlamydia trachomatis infection 3
 - c. Herpes genitalis 3

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8. a. Classify anogenital warts. 2
b. Discuss the management of anogenital warts in a pregnant woman. 5
c. Discuss the complications of anogenital warts in a male. 3
9. a. Discuss the recommendation of partner management in:
i) Syphilis. 2
ii) Urethral discharge. 2
iii) Vaginal discharge. 2
b. Discuss the recommendations for presumptive management of sexually transmitted infections. 4
10. Tabulate the differences between:
a. Ulcers of Chancre and chancroid 4
b. Ulcers of dwarf chancroid and herpes genitalis. 3
c. Bubo of chancroid and lymphogranuloma venereum. 3
