

DERMATOLOGY, VENEREOLOGY & LEPROSY

PAPER – I

DVD/D/16/06/I

Time : 3 hours

Max. Marks : 100

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. a) Define innate immunity. 1+3+3+3
b) Enumerate the components of innate immunity under the following headings:
 - Physical barriers.
 - Chemical barriers.
 - Biological barriers.
- c) Three differences between innate and acquired immunity.
d) Role of innate immunity in pathogenesis of psoriasis.

2. a) Characteristics of autosomal recessive inheritance. 2+2+3+3
b) What is genetic mosaicism?
c) Antenatal diagnostic tests available for genodermatoses.
d) Importance of gene therapy in genodermatoses.

3. a) Draw the structure of a desmosome with a labeled diagram. 3+2+5
b) Enumerate the important antigenic components of a desmosome.
c) Pathogenic importance of desmosomes and its antigens in pemphigus.

4. a) Draw a labeled diagram of eccrine sweat gland. 3+4+3
b) Formation of sweat.
c) Tabulate the anatomical and physiological differences between eccrine and apocrine sweat glands.

5. What is the conventional scoring system used (with details of the score) and its clinical importance including its limitations, in the following: 4+4+2
 - a) Psoriasis
 - b) Toxic epidermal necrolysis
 - c) Vitiligo

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6. Mention the differences, giving examples, between: 2.5 x 4
- Longitudinal study and cross sectional study.
 - Non-inferiority and equivalence study.
 - Strength of evidence and quality of evidence in a clinical trial.
 - Efficacy and effectiveness.
7. a) What is the importance of epidemiology in dermatology? 2+(2+2+2+2)
b) Epidemiology of tinea corporis under the following headings:
- Prevalence.
 - Host factors.
 - Environmental factors.
 - Treatment considerations.
8. a) Classify ultraviolet radiation, based on its wave length with a 2+(2+2)+4
labeled diagram.
b) Role of the following in photoprotection:
- Ozone
 - Clothing
- c) Tabulate the normal acute and chronic effects of the UVA and UVB on skin.
9. A 63-year old farmer presents with a suspected deep fungal 1+2+2+1+2+2
infection on his foot. Write the broad principles of diagnosis in him
under the following headings:
- Importance of history.
 - Importance of examination.
 - Direct microscopic identification of fungus.
 - Sample collection for culture.
 - Culture.
 - Biopsy.
10. Functions of the skin under the following headings: 2x5
- Permeability.
 - Barrier function.
 - Thermoregulation.
 - Immunological.
 - Sensations.
