

DERMATOLOGY, VENEROLOGY & LEPROSY

PAPER – I

DVD/J/15/06/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) What is an epidermal-melanin unit? b) Enumerate the non keratinocyte cells of epidermis. c) Structure of keratinocytes under the following headings: i. Light microscopic appearance ii. Electron microscopic appearance d) Special stains to study melanocytes.	2 2 2 2 2
2.	a) Characteristics of X-linked recessive inheritance. b) What is genetic mosaicism? c) Antenatal diagnostic tests available for genodermatoses. d) Importance of gene therapy in genodermatoses.	2 2 3 3
3.	a) Structure of a hemidesmosome. b) Enumerate the important antigenic components of a hemidesmosome. c) Enumerate the functions of the hemidesmosomes. d) Role of hemidesmosomes in various blistering diseases of skin.	2 2 2 4
4.	a) Structure of eccrine sweat glands. b) Formation of sweat. c) Tabulate the anatomical and physiological differences between eccrine and apocrine sweat gland.	3 4 3
5.	Pathogenesis of psoriasis under the following headings: a) PSORS 1-8 genes. b) Role of T cells c) Role of dendritic cells d) Role of signaling molecules e) Role of keratinocytes	2x5

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6.	a) Differences between a longitudinal and cross sectional study, giving examples.	3
	b) How do you calculate the sample size of a therapeutic trial?	3
	c) What is meant by strength of evidence and quality of evidence in a clinical trial?	4
7.	a) Enumerate the resident flora of skin.	2
	b) Role of resident flora of the skin in health	2
	c) When do resident organisms become pathogenic?	2
	d) Erythrasma.	4
8.	a) Enumerate the components of terrestrial solar spectrum.	2
	b) Natural factors which protect us from the deleterious effects of solar radiation.	3
	c) Tabulate the natural effects of the different bands of the solar spectrum on skin.	2
	d) Importance of life style changes in photoprotection.	2
	e) Write a prescription for a patient with mild photosensitivity.	1
9.	In a laboratory test, explain with examples, the importance of:	2
	a) Sampling technique	2
	b) Transport medium	2
	c) Sensitivity	2
	d) Specificity	2
	e) Positive predictive value	2
10	Functions of the skin under the following headings:	2x 5
	a) Permeability	
	b) Barrier function	
	c) Thermoregulation	
	d) Immunological	
	e) Sensations	
