

**DERMATOLOGY, VENEREOLOGY & LEPROSY**

PAPER – I

DVD/J/17/06/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) Indications of biopsy in skin infections. 3+3+3+1  
b) Mention the various techniques of doing a skin biopsy.  
c) How to select appropriate lesion for biopsy?  
d) Precautions to be taken when taking biopsy in cutaneous mastocytosis.
2. a) What is human genome? 3+4+3  
b) Mendelian patterns of inheritance.  
c) Pedigree charting.
3. a) Draw a neat labeled diagram of nail apparatus. 4+3+3  
b) Physiology of nail.  
c) Pathogenesis of nail changes on psoriasis.
4. a) Expression patterns of keratin genes. 4+3+3  
b) Keratin associated diseases.  
c) Laboratory evaluation of a child suspected of having a keratin gene defect.
5. a) Define somatic mosaicism. 2+2+3+3  
b) Enumerate the types of somatic mosaicism.  
c) Mention factors which affect phenotypic manifestations of somatic mosaicism.  
d) Give examples of skin diseases which can be explained on the basis of mosaicism.
6. Sebaceous gland under the following headings: 3+3+4  
a) Anatomy.  
b) Functions and composition of sebum.  
c) Factors regulating sebaceous gland size and sebum production.

**P.T.O.**

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7. Write the following in relation to research methodology: 2+1+1+1+2+3
- a) Primary objective vs secondary objectives.
  - b) Research question.
  - c) Citing a reference from a journal.
  - d) Citing a reference from a book.
  - e) Sample size calculation.
  - f) Use of mean versus median.
8. a) Toll-like receptors. 3+4+3
- b) Anti-microbial peptides.
- c) Role of filaggrin in cutaneous barrier function.
9. a) Define itch. 1+4+3+2
- b) Itch scratch cycle.
- c) Enumerate systemic disorders associated with pruritus.
- d) Enumerate topical anti-pruritic agents.
- 10 a) Role of eosinophils in skin disorders. 5+5
- b) Role of complement in skin diseases.

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