

UKA TARSADIA UNIVERSITY

Maliba Pharmacy College

M. Pharm. Pharmaceutical Analysis 3rd Semester Internal Examination December 2013**040060302 Pharmaceutical and Cosmetic Analysis**

Time: 10:30 a.m. To 1:30 p.m.

Max. Marks: **70**

Date: 12/12/2013

Instructions:

- Attempt all questions.
- Draw diagrams/figures where necessary.
- Figures to the right indicate full marks.
- Make suitable assumptions wherever necessary.

Q.1] (a) Define the following: [10 x 1 = 10]

- | | | |
|------------------------------|---------------------|------------------|
| 1) Biological matrix | 2) Lyophilization | 3) Draize scale |
| 4) Composite sample | 5) Iodine value | 6) Foaming power |
| 7) Photolysis | 8) Hypersensitivity | 9) GRAS list |
| 10) Acceptable Quality Level | | |

(b) Answer the following in brief: (any six) [6 x 3 = 18]

- 1) What is the role of cyclodextrin in improving stability of drugs?
- 2) What is breaking load value of a lipstick? How is it determined?
- 4) Enlist the factors affecting chemical stability of drugs. Describe any one with suitable examples.
- 5) Explain the significance of oral toxicity and skin irritation test.
- 6) What are the types of hair oil? Describe the tests for hair oil as per BIS specification.
- 7) Write general requirements for sampling of cosmetics.
- 8) Define Cosmetics. Write its classification.

Q.2 (a) Explain the principle and procedure involved in determination of following Parameters as per BIS: (any three) [3 x 4 = 12]

- | | |
|------------------------|-----------------------|
| 1) Foaming power | 2) Rosin and borax |
| 2) Free caustic alkali | 4) Arsenic and nickel |

(b) Describe BIS requirements for following cosmetics: (any three) [3 x 5 = 15]

- | | |
|----------------|------------------------|
| 1) Shampoos | 2) Lipstick |
| 3) Tooth paste | 4) After shave lotions |

(c) Answer the following in detail: (any three) [3 x 5 = 15]

- 1) Discuss the factors affecting extraction of drugs with suitable examples.
- 2) Discuss physical stability testing of tablets.
- 3) Describe the principle, merits and demerits of solid phase extraction.
- 4) What is the significance of mean kinetic temperature and Arrhenius equation in drug decomposition study?
