

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: MPH
BRANCH: PHARMACY

SEMESTER: II
SESSION: SP/23

SUBJECT: MPH204T COSMETIC AND COSMECEUTICALS

TIME: 3.00 Hours

FULL MARK: 75

INSTRUCTIONS:

1. The missing data, if any, may be assumed suitably.
 2. Before attempting the question paper, be sure that you have got the correct question paper.
 3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
 5. Answer any five questions.
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- 1a. Write a note on the aetiology of formation of dental caries [7]
1b. Illustrate the growth cycle of hairs and associated diseases. [8]
- 2a. Write a note on Acne vulgaris and its treatment. [7]
2b. Define cosmetics, misbranded and spurious cosmetics. Discuss the labelling requirements of cosmetics as per D&C Act. [8]
- 3a. Describe the role of nonionic surfactants in formulation of different classes of cosmetics [7]
3b. Enlist the cosmetic products under Schedule "S". What are the requirements for factories and premises for cosmetic manufacturing? [8]
- 4a. Discuss advantage of herbals in cosmetics for skin and hair with some examples? [7]
4b. Elaborate structure of skin and explain the application of herbal cosmetics in skin conditions [8]
- 5a. Discuss in short Quality data in herbal cosmetics. [7]
5b. Describe the regulations for safety concern regarding harmful components used in herbal cosmetics [8]
- 6a. Discuss the building blocks of Shampoos and Toothpaste and their evaluation parameters [7]
6b. Write very specific answer for the following: [8]
i) Use of Stannous Fluorides in toothpaste
ii) What should be the hardness value for abrasives used in toothpaste?
iii) Provide the mechanism of anticalculus agent in toothpaste with examples
iv) Provide names of some prominent antimalodour agents in oral products
v) What is the use of hydrogen peroxide in tooth products?
vi) Define SPF
vii) Write the range of UVA and UVB rays
viii) Provide mechanism of action of chemical sunscreen agents
- 7a. Discuss the anionic and cationic surfactants [7]
7b. Write specific answers for the following: [8]
i) What is the surface charge of normal skin? What are corneocytes and what do you understand by NMF? State true or false: "Increase in TEWL of skin results in moisturized skin". Mention the importance of TEWL
ii) Discuss the different types of skin moisturizers providing examples for each

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