

- (b) What is a lipstick? What are its ingredients?
- (c) Why DDT is called hard pesticide? Explain the mode of action. (5,5,5)
6. Write short notes on any **three** of the following :
- (a) Alachlor
- (b) Chloranil
- (c) Antiperspirants
- (d) Benefits and adverse effects of pesticides
- (e) Shaving Creams (5,5,5)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5873

J

Unique Paper Code : 2172552402

Name of the Paper : DSC: Pharmaceuticals,
Cosmetics and Pesticides

Name of the Course : **B.Sc. (Prog.) Industrial
Chemistry**

Semester : IV

Duration : 2 Hours Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
 2. Attempt **four** questions in all.
 3. Question No. **1** is compulsory.
-
1. Attempt any **five** of the following :
 - (a) Mention and explain the ingredients of Talcum Powder.

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- (b) Give the synthesis of Aspirin.
- (c) What are the characteristics of a biodegradable pesticide?
- (d) What are antipyretic drugs? Give the synthesis and mode of action of any one such drug.
- (e) What do you understand by analgesics agents? Give the synthesis of Paracetamol.
- (f) Write a note of Chloromycetin. (3×5)
2. (a) What is Anilides? Give the synthesis of Burachlor?
- (b) Give the synthesis of the following :
- (i) Dapsone
- (ii) Carbaryl
- (c) Write a short note on central nervous system agents. (5,5,5)
3. (a) What are San-tan lotions? Give their importance in cosmetic industries.

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- (b) Write a short note on carbamates.
- (c) Give the formulation of the following (**any two**) :
- (i) Face power
- (ii) Shampoo
- (iii) Hair (5,5,5)
4. (a) Explain the mechanism of mode of action of organophosphates.
- (b) Draw the structure of DDT. Why its use is now banned in many countries?
- (c) To what category of compounds does Malathion belongs? Give its method of preparation. (5,5,5)
5. (a) Give the synthesis and uses of any **two** of the following :
- (i) Carbofuran
- (ii) Gammexene
- (iii) Parathion

P.T.O.