

### Section C

5. (a) Notify mutarotation of monosaccharides.  
(b) Enlist important points of the structure elucidation of starch. **4,8**
6. (a) How can isoprenes be isolated ?  
(b) Define isoprene rule.  
(c) Elucidate the structure of citral. **3,3,6**

### Section D

7. (a) How can the position of hydroxyl group and double bond be ascertained in cholesterol ?  
(b) Write a note on cardiac glycosides. **7,5**
8. (a) Sketch the conversion of cholesterol to progesterone.  
(b) Enlist the general structural features of haemoglobin. **6,6**

Roll No. ....

Total Pages : 02

LMDQ/M-24

**7528**

## PHARMACEUTICAL CHEMISTRY SPECIAL-III CHEM-401

Time : Three Hours]

[Maximum Marks : 60

**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Section. All questions carry equal marks.

### Section A

1. (a) Differentiate between acetate-malonate and acetate-mevalonate pathway.  
(b) Discuss the biosynthesis of griseofulvin. **5,7**
2. (a) Describe the Shikimic acid pathway for plant secondary metabolites.  
(b) Explain the biosynthesis of chlorogenic acid. **8,4**

### Section B

3. (a) Write down the general methods of structure elucidation of alkaloids.  
(b) Sketch the biosynthesis of ephedrine. **8,4**
4. (a) Classify alkaloids on the basis of nitrogen heterocyclic ring.  
(b) What are Carotenoids ? Give the biogenesis of  $\beta$ -carotene. **5,7**

8. Explain different types of colour schemes and their uses in fashion designing. **16**

फैशन डिजाइनिंग में विभिन्न प्रकार की रंग योजना और उनके उपयोग की व्याख्या कीजिए ।

9. Describe various fashion details used in designing fashion sketches. **16**

फैशन स्केच डिजाइन करने में उपयोग किए जाने वाले विभिन्न फैशन विवरणों का वर्णन कीजिए ।

Roll No. ....

Total Pages : 04

PDFD/M-24

**8952**

FASHION ILLUSTRATION

PGDFD-103

Time : Three Hours]

[Maximum Marks : 80

**Note :** Attempt *Five* questions in all, selecting *two* questions from each Unit. Q. No. **1** is compulsory. All questions carry equal marks.

प्रत्येक इकाई से **दो** प्रश्न चुनते हुए, कुल **पाँच** प्रश्नों के उत्तर दीजिए । प्रश्न संख्या **1** अनिवार्य है । सभी प्रश्नों के अंक समान हैं ।

**Compulsory Question ( अनिवार्य प्रश्न )**

1. Write short notes on the following : **8×2=16**

- (a) Proportion
- (b) Silhouettes
- (c) Hue and Intensity
- (d) Necklines
- (e) Fashion Illustration
- (f) Rhythm
- (g) Colour
- (h) Informal Balance.