



Faculty of Health Sciences
Higher Diploma in Pharmaceutical and Cosmetic Sciences
HD 1143 Good Manufacturing Practices & Organizational Management
Batch 03
1st Year 1st Semester
End Semester Examination – SEQ

INDEX NUMBER:

Date : 10th June 2024

Time : 9.00 a.m. - 12.00 p.m. (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of SIX questions.
Answer ALL the questions on this paper itself.
Final answers should be given legibly in black or blue ink.

Question 01 (100 marks)

1.1 What is manufacturing? (10 marks)

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1.2 Briefly describe the term 'Good Manufacturing Practices (GMP)'. (20 marks)

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1.3 State the five (05) main components of GMP. (25 marks)

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1.4 Differentiate GMP and current GMP (cGMP). (20 marks)

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1.5 Briefly describe GMP guidelines on personnel and their training. (25 marks)

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Question 02 (100 marks)

2.1 List **three (03)** world renowned pharmacopoeia. (15 marks)

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2.2 Differentiate general monographs and specific monographs. (25 marks)

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2.3 What is the importance of having standards in cosmetic industry?

(20 marks)

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2.4 Write a brief account on EUGMP guidelines.

(20 marks)

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2.5 List **four (04)** types of contaminations occurred in pharmaceutical industry, giving **one (01)** example for each of the type you listed.

(20 marks)

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Question 03

(100 marks)

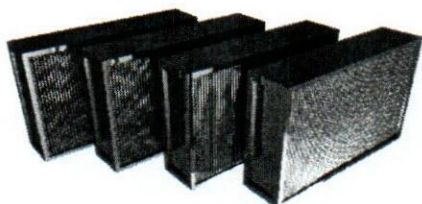
3.1 Define what is a clean room.

(10 marks)

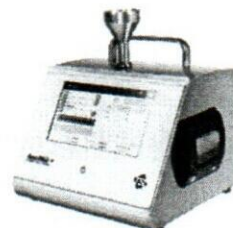
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3.2 Name the equipment given below.

(15 marks)



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3.3 Briefly describe the use of Heating-Ventilation-Air Conditioning (HVAC) systems. (25 marks)

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3.4 State **five (05)** factors (other than environment control related factors) to be considered when designing a pharmaceutical clean room. (25 marks)

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3.5 List **five (05)** measures to maintain aseptic conditions in manufacturing area. (25 marks)

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Question 04 (100 marks)

4.1 Define the term "Planning". (15 marks)

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4.2 List the major **four (04)** planning related activities. (20 marks)

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4.3 Briefly describe the term ‘performance management’. (20 marks)

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4.4 List **four (04)** product quality dimensions. (20 marks)

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4.5 List **five (05)** steps in goals setting process of an organization. (25 marks)

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Question 05 (100 marks)

5.1 State **three (03)** techniques for continuous improvement. (15 marks)

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5.2 What is team leadership? (20 marks)

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5.3 What is meant by 'performance appraisal'?

(20 marks)

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5.4 State **four (04)** performance appraisal methods.

(20 marks)

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5.5 List the stages of team development.

(25 marks)

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Question 06

(100 marks)

6.1 What is code of ethics?

(15 marks)

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6.2 Briefly describe the need of ethics in pharmaceutical industry.

(25 marks)

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6.3 List **five (05)** characteristics of a well-designed goal. (25 marks)

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6.4 Differentiate goals and plans. (15 marks)

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6.5 Briefly describe different time management techniques. (20 marks)

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EXAMINATION
05 JUN 2024
CINEC



Faculty of Health Sciences

Higher Diploma in Pharmaceutical & Cosmetic Sciences

Pharmaceutical And Cosmeceutical Microbiology – HD 1113

1st Year 1st Semester -End Examination SEQ -Batch 03

Date	:	2024.06.05
Time	:	9. 00 A.M – 12.00 P.M (3 HOURS)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of **SIX** questions.
- Answer **ALL** questions.
- You should write legibly in black or blue ink

QUESTION 01 **(100 Marks)**

1.1 Classify the diverse group of microorganisms. (25 marks)

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1.2 Mention the types of microscopes use in microbiology laboratory. (25 marks)

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1.3 Briefly describe the terms of magnification and resolution of the microscope. (25 marks)

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1.4 Briefly describe the importance of phase contrast microscope and dark field microscope. (25 marks)

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QUESTION 02

(100 Marks)

2.1 Mention five types of staining methods use in microbiology laboratory. (25 marks)

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2.2 Briefly describe the principle of gram staining method. (25 marks)

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2.3 Briefly describe the phases of growth in bacterial growth curve. (25 marks)

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2.4 Briefly describe the use of enrichment media, selective media and differential media. (25 marks)

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QUESTION 03

(100 Marks)

3.1 Mention five medically important gram-positive cocci microorganisms. (25 marks)

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3.2 Briefly describe the general characteristics of *Staphylococcus spp.* (25 marks)

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3.3 Briefly describe two diagnostic methods of *Staphylococcus spp.* (25 marks)

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3.4 Briefly describe the characteristics of any two medically important gram-negative microorganisms. (25 marks)

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QUESTION 04 (100 Marks)

4.1 Define the terms of sterilization, disinfection, antiseptic, bacteriostatic and bactericidal. (25 marks)

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4.2 Compare and contrast the process of sterilization and disinfection. (25 marks)

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4.3 Briefly describe the advantages and disadvantages of filtration method in sterilization. (25 marks)

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4.4 State the factors that influence the efficacy of disinfection and sterilization. (25 marks)

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QUESTION 05 (100 Marks)

5.1 State the characteristics of spirochetes. (25 marks)

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5.2 Briefly describe an infection cause by *Treponema pallidum* spirochete. (25 marks)

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5.3 Mention three types of curvy form gram-negative bacteria that cause enteric diseases and briefly describe their structural characteristics. (25 marks)

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5.4 Briefly describe the pathogenesis of gastroenteritis caused by *Campylobacter spp.* (25 marks)

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QUESTION 06

(100 Marks)

6.1 State the properties of a virus. (25 marks)

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6.2 State the key stages of life cycle of a virus. (25 marks)

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6.3 Briefly describe the transmission methods of a virus into the host cell. (25 marks)

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6.4 Briefly describe the structure of a fungus. (25 marks)

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Faculty of Health Sciences
Higher Diploma in Pharmaceutical & Cosmetic Sciences
HD 1133 – Introduction to Pharmaceutical & Cosmeceutical Industry
Batch – 03 - 1st year 1st semester - End Semester - SEQ Examination

Date : 3rd of June 2024
Time : 9.00 am – 12.00 noon (Three hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of SIX questions.
Answer ALL questions.
Write the answers legibly in black or blue ink.

Question 01 (100 marks)

1.1. State three (03) types of alternative medicines. (15 marks)

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1.2. List one (01) advantage and one (01) disadvantage of the alternative medicines mentioned in 1.1. (20 marks)

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1.3. Briefly describe the differences between conventional and alternative medicines. (25 marks)

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1.4.State three (03) factors affecting personality of an individual. (15marks)

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1.5. Write a short note on positive personality traits that makes you stand out. (25 marks)

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Question 02 (100 marks)

2.1. Define the term 'Dosage form.' (05 marks)

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2.2. Outline the classification of solid dosage form with examples. (20 marks)

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2.3. Discuss the differences between hard gelatin and soft gelatin capsules. (25 marks)

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2.4. State **two (02)** Biphasic liquid dosage forms. (10 marks)

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2.5. Write short notes on the following.

a) Elixir

(20 marks)

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b) Excipients used in the manufacturing of liquid dosage form

(20 marks)

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Question 03

(100 marks)

3.1. State **five (05)** ideal properties of semi-solid dosage form.

(10 marks)

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3.2. List **four (04)** excipients used in semi-solid dosage form manufacturing.

(20 marks)

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3.3. Write a short note on oleaginous base.

(25 marks)

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