THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(SIDDHA) 0321] MARCH 2021 Sub. Code: 3117

(OCTOBER 2020 EXAM SESSION)

M.D. (SIDDHA) DEGREE EXAMINATION

THIRD YEAR

BRANCH II - GUNAPADAM

PAPER III – PHARMACEUTICALS AND REGULATIONS

Q.P. Code : 323117

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. (a)Write a note on analyser used in mass spectroscopy.
   (b)Describe about the detection techniques applied in Thin Layer Chromatography.
2. (a)Limit test for arsenic.
   (b)Ethical guidelines in utilising animal for experimental purposes.

II. Write notes on: **(10 x 6 = 60)**

1. Write in detail about the principles involved in chromatography.
2. Write about basic constituents of plants.
3. Write in detail about the detectors used in Gas chromatography.
4. Determination of Ash value.
5. Method involved in the new drug development.
6. Good laboratories practices.
7. Test for microbes.
8. Sub acute toxicity study.
9. Determination of Saponification value.
10. Write the principles involved in ultraviolet spectroscopy.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(SIDDHA) 1221] DECEMBER 2021 Sub. Code: 3117
(MAY 2021 EXAM SESSION)

M.D. (SIDDHA) DEGREE EXAMINATION
THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)
BRANCH II - GUNAPADAM
PAPER III – PHARMACEUTICALS AND REGULATIONS
Q.P. Code : 323117

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Define GMP Regulations? Expain the quality assurance process and stages?

2. Write about different method of Isolation in plant materials?

II. Write notes on: **(10 x 6 = 60)**

1. What are the duties of Drug Inspector?
2. Leak test – Advantages and Disvantages.
3. Estimation of Alkaloid.
4. Determination of water and Alcohol solution Extractive value?
5. How to calculate the LD50 &ED50?
6. Write about Central Drugs Laboratory?
7. Explain about Licensing authorities and How to get Licence?
8. HPTLC—Advantages and disvantages?
9. HELSINKIS – Declaration.
10. FDA-Guidelines.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(SIDDHA) 0222] FEBRUARY 2022 Sub. Code: 3117
(OCTOBER 2021 EXAM SESSION)

M.D. (SIDDHA) DEGREE EXAMINATION
THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)
BRANCH II - GUNAPADAM
PAPER III – PHARMACEUTICALS AND REGULATIONS
Q.P. Code : 323117

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Describe the principle, theory instrumentation of mass spectrometer and application of mass spectroscopy.

2. (a)Write about the estimation of marker compound in biological fluids.
   (b)Explain about the aspect of good manufacturing process.

II. Write notes on: **(10 x 6 = 60)**

1. Write in detail about schedule-E drugs.
2. Explain the principles involved in Nuclear Magnetic Resonance spectroscopy.
3. Licensing authorities of drug and cosmetic act.
4. Write in detail about the application of Gas chromatography.
5. Determination of Acid value.
6. Hyphenated techniques and its advantages.
7. Describe about the ED 50 and LD 50.
8. Chronic toxicity study.
9. Determination of vein islet number.
10. Write the advantages and differences of High performance liquid chromatography compared to thin layer liquid chromatography.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(SIDDHA) 0822] AUGUST 2022 Sub. Code: 3117
(MAY 2022 EXAM SESSION)

M.D. (SIDDHA) DEGREE EXAMINATION
THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)
BRANCH II - GUNAPADAM
PAPER III – PHARMACEUTICALS AND REGULATIONS

Q.P. Code : 323117

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. a) Explain the pre-clinical Pharmacokinetic and Pharmacodyanamic study.
   b) Write about Column chromatography.

2. a) Application of new drug discovery according to DCGL.
   b) High throughput screening.

II. Write notes on: **(10 x 6 = 60)**

1. Instrumentation of Gas chromatography.
2. Isolation of active constitutents from Percolation method.
3. Write the difference between HPLC and TLC.
4. Write the principle involved in mass spectroscopy.
5. Licensing authorities of drug and cosmetic act.
6. Determination of Acid value.
7. Hyphenated techniques and their advantages.
8. Explain about the ED 50 and LD 50.
9. Determination of vein islet number.
10. Sterilization methods.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(SIDDHA) 1122] NOVEMBER 2022 Sub. Code: 3117
(OCTOBER 2022 EXAM SESSION)

M.D. (SIDDHA) DEGREE EXAMINATION
THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)
BRANCH II - GUNAPADAM
PAPER III – PHARMACEUTICALS AND REGULATIONS
Q.P. Code : 323117

Time : Three hours **Answer ALL Questions** **Maximum : 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. a) Explain the principles and applications of Atomic Absorption Spectroscopy.
   b) Good laboratory practices.

2. a) Test for microbes.
   b) Chronic Toxicity Study.

II. Write notes on: **(10 x 6 = 60)**

1. Derive an expression for Beer-lamberts law.
2. Limit rest of Arsenic.
3. Apllication of Mass Spectroscopy.
4. Determination of iodine value.
5. Write in detail about the schedule to the drugs.
6. Application of NMR.
7. Write about basic constituents of Plants.
8. Write about the Animal study.
9. Application of UV spectroscopy.
10. Application of TLC.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MD(SIDDHA) 0225] FEBRUARY 2025 Sub. Code: 3117

M.D. (SIDDHA) DEGREE EXAMINATION
THIRD YEAR - (For the candidates admitted from 2017-2018 onwards)
BRANCH II - GUNAPADAM
PAPER III – PHARMACEUTICALS AND REGULATIONS

Q.P. Code: 323117

Time: Three hours **Answer ALL Questions** **Maximum: 100 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. a) Explain the principles and applications of High Performance Thin Layer chromatography.
   b) Atomic Absorption Spectrometers and Limit test for Mercury.

2. a) Ethical considerations in utilizing human subjects for drug discovery process.
   b) Basic constituents of plants (chemical classification).

II. Write notes on: **(10 x 6 = 60)**

1. Lipinski's rule for drug molecule.
2. Determination of Moisture Content (Loss on Drying).
3. Standards of Siddha drugs.
4. Microbial Limit Tests.
5. Sub acute Toxicity study.
6. Fluorescence spectroscopy.
7. Determination of Alcohol Content.
8. Storage and Transportation of Siddha drugs.
9. Determination of Ether Soluble Extractive.
10. Kries Test.

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