

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)

PCI Regulation 2017 – SEMESTER II

PAPER I – HUMAN ANATOMY AND PHYSIOLOGY – II

Q.P. Code: 562014

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Discuss the structure and functions of kidney. Add a note on nephron with neat diagram.
2. Summarize the list of endocrine glands and its secretions; explain the anatomy and physiology of pituitary gland.
3. Describe the anatomy of digestive tract and discuss their role in digestion of food with neat labeled diagram.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Explain the electrophysiology and action potential of nervous tissue.
2. Outline the types of salivary gland; add a note on composition of saliva and its functions.
3. Write about resuscitation methods.
4. Explain the mechanism of hormone action.
5. Discuss about protein synthesis.
6. Describe the structure, secretions, functions and disorders of adrenal gland.
7. Discuss about lung volume and lung capacities.
8. Write a note on anatomy of human brain with diagram.
9. Explain the phases in spermatogenesis and oogenesis.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Define and classify the types of neurotransmitters with example.
2. Mention the composition and functions of CSF.
3. Define defecation and micturition.
4. Write a note on the role of hydrochloric acid in digestive system.
5. Define GFR. Mention the normal value and its significance.
6. List the hormones produced by male and female gonads.
7. Name the nucleic acids and its composition.
8. What is menopause?
9. Name the secretions and functions of parathyroid gland.
10. Mention the parts of respiratory tract.



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

[B.PHARM 1223]

**DECEMBER 2023
(SEPTEMBER 2023 EXAM SESSION)**

Sub. Code: 2037

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER III
PAPER IV - PHARMACEUTICAL ENGINEERING**

Q.P. Code: 562037

Time: Three hours

Maximum: 75 Marks

I Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Classify evaporators. Describe construction and working of a film evaporator.
2. Explain in brief about mechanism of solid and liquid mixing.
3. Brief account on perforated basket centrifuge.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)


1. Orifice meter.
2. Hammer mill.
3. Mechanism of size separation.
4. Fourier's law.
5. Enumerate the merits and demerits of steam jacketed kettle.
6. Write the principle, construction and working of flash distillation.
7. Double cone blender.
8. Cartridge Filter.
9. Explain the theories of corrosion.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. Pilot tube.
2. Principles of size reduction.
3. Elutriation tank.
4. Heat exchangers.
5. Merits and demerits of horizontal tube evaporator.
6. Write the limitations of distillation under pressure.
7. Moisture content.
8. Trituration.
9. Seidtz Filter.
10. Reynolds Number.




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**DECEMBER 2023
(SEPTEMBER 2023 EXAM SESSION)**

Sub. Code: 2078

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 - SEMESTER VIII
PAPER II – SOCIAL AND PREVENTIVE PHARMACY**

Q.P. Code: 562078

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. What are indicators of health? Explain different indicators and their use.
2. What are the objectives of the Revised National Tuberculosis Control Programme? How are diagnosis, categorization and treatment of tuberculosis done according to Revised National TB Control Program (RNTCP)?
3. Write in detail about objectives, strategy, components of the National Programme for Control of Blindness and Visual Impairment.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)


1. What are nutritional deficiency diseases? Name some common nutritional deficiency diseases in India and how they are controlled.
2. Personal hygiene and avoidable habits.
3. Prevention and control of chikungunya and dengue.
4. Pulse Polio Programme in India.
5. Explain the salient features of the National Programme for the Health Care of the Elderly.
6. Write the aim and objectives of the National Malarial Control Programme.
7. Define cancer. What are the causes of cancer? Discuss clinical features, diagnosis and treatment of cancer.
8. Mention the various health problems of school children. Discuss in detail the objectives and the aspects of school health services.
9. Functions of Primary Health Centre (PHC).

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. What is the germ theory of health?
2. Define a balanced diet.
3. Sullivan's Index.
4. Mode of transmission of Ebola Virus.
5. Write the causative organism and control of SARS.
6. What are psychoactive substances?
7. What are DOTS and DOTS plus?
8. What is the immunization schedule during pregnancy?
9. Write the role of ASHA workers role in the National Rural Health Mission (NRHM).
10. Impact of urbanization on health.




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**DECEMBER 2023
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Sub. Code: 2058

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – SEMESTER V
PAPER V – PHARMACEUTICAL JURISPRUDENCE**

Q.P. Code: 562058

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions.

(2 x 10 = 20)

1. Export under claim for rebate of duty or under bond as per Medicinal and Toilet Preparations Act, 1955.
2. Explain in details about the conditions of license for manufacture of drugs under Drugs and Cosmetics Act, 1940 and its rules 1945.
3. Write in detail about the Responsibilities of Drugs Consultative Committee.

II. Write notes on: Answer any SEVEN questions.

(7 x 5 = 35)

1. Code of Ethics of Pharmacist relation to his profession.
2. Discuss the rule relating to import of drugs as per drugs and cosmetics Act.
3. Write the duties of Public Authorities.
4. Write the procedure for getting Patents and trade mark.
5. Describe about CPCSEA and IAEC.
6. Write a note on in bond and outside bond manufacturing.
7. Write in detail about Code of Pharmaceutical Ethics.
8. Write in detail about Hathi Committee.
9. Give the main objectives of DPCO 2013.

III. Short answers on: Answer ALL questions.

(10 x 2 = 20)

1. What is Non-scheduled formulation?
2. Registered Pharmacist.
3. Define Misbranded Drugs.
4. Offences and Penalties in Medical Termination of Pregnancy Act.
5. Import of Drugs.
6. Schedule T.
7. Define Restricted License.
8. What is Central Drug Research Laboratory?
9. Define Rectified Spirit.
10. List of Exempted Drugs.



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