[BPHARM 0422] APRIL 2022 (SEPTEMBER 2021 SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS) PCI Regulation 2017 SEMESTER VIII PAPER IV- PHARMACEUTICAL REGULATORY SCIENCES Q.P. Code: 562080

Time: Three Hours Maximum :75 marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

Sub. Code: 2080

- 1. Explain the approval process of timeline involved in Investigational New Drug.
- 2. Explain the procedure for export of pharmaceutical products.
- 3. Explain the design in developing clinical trial protocols.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Explain the roles and responsibilities of the regulatory authority.
- 2. Explain the Orange Book features.
- 3. Explain the informed consent process & procedure involved in clinical trials.
- 4. Explain the Drug Master File.
- 5. Explain the Common Technical Document.
- 6. Explain the approval process for implementing the changes to an approved NDA.
- 7. Explain the regulatory authorities of Australia.
- 8. Explain the preclinical studies involved in drug discovery.
- 9. Explain the concept of generics & Generic drug product development.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Phase 3 clinical trial.
- 2. CDSCO.
- 3. WHO.
- 4. Regulatory authorities of Canada.
- 5. Purple Book.
- 6. Phase 2 clinical trial.
- 7. EMA.
- 8. Functions of Ethics committee.
- 9. Investigational Product.
- 10. Three arm study.

[BPHARM 1022]

OCTOBER 2022 (MARCH 2022 SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS) PCI Regulation 2017 - SEMESTER VIII PAPER IV- PHARMACEUTICAL REGULATORY SCIENCE O.P. Code: 562080

Time: Three Hours Maximum :75

marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

Sub. Code: 2080

- 1. Explain the approval process and timeline involved in New Drug Application.
- 2. Describe ASEAN Common Technical Document (ACTD) research.
- 3. Explain ICH (International Conference on Harmonization of Technical Requirements for registration of pharmaceuticals for human use).

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Explain the non clinical studies in the process of New Drug Application.
- 2. Explain the generic drug product development.
- 3. Describe the drug regulatory authority of India.
- 4. Explain the approval process for NDA.
- 5. Explain the technical documentation with an example.
- 6. Explain the role & responsibilities of sponsor and investigator in clinical trials.
- 7. Explain the purpose, importance & ethics of informed consent.
- 8. Explain the CFR, history, CFR in modern times of research tools in CFR.
- 9. Explain the Purple Book.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Explain the functions of US FDA.
- 2. EMA.
- 3. Phase 2 clinical trial.
- 4. Concept of Generics.
- 5. Regulatory Authorities of Japan.
- 6. Drug Master File.
- 7. eCTD.
- 8. Independent Ethics Committee.
- 9. Federal Register.
- 10. What is pharmacovigilance?

[B.PHARM 0323] MARCH 2023 Sub. Code: 2080 (SEPTEMBER 2022 EXAM SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS) PCI Regulation 2017 - SEMESTER VIII PAPER X- PHARMACEUTICAL REGULATORY SCIENCE

Q.P. Code: 562080

Time: Three Hours Maximum: 75 marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Explain in detail about stages involved in drug discovery.
- 2. Discuss about Pharmaceutical policy 2002.
- 3. Explain about CTD and e CTD.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Write a note on organisation of ASEAN CTD format.
- 2. Compare innovator and generics.
- 3. Explain in detail about functions of CDSCO.
- 4. Write a note on procedure for obtaining No objection Certificate (NOC) for export of unapproved / approved new drugs / banned drugs.
- 5. Discuss obligations of investigators, sponsors and monitors.
- 6. Brief about the guidance documents for NDAs.
- 7. Explain the role of EMA and PDMA.
- 8. Write a note overview of regulatory authorities of USA.
- 9. Write about managing and monitoring clinical trials.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Define bioinformatics.
- 2. What is New drug Development?
- 3. What is placebo?
- 4. What is a 505(b)(2) application?
- 5. What do you mean by draft pharmaceutical policy 2006?
- 6. Define CTA.
- 7. Define Pharmacovigilance.
- 8. Define Orange book.
- 9. What is an investigational new drug (IND) application?
- 10. Name any five regulatory agencies and organisations established in countries.

[B.PHARM 0823] AUGUST 2023 Sub. Code: 2080 (MARCH 2023 EXAM SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS) PCI Regulation 2017 - SEMESTER VIII PAPER X - PHARMACEUTICAL REGULATORY SCIENCE

Q.P. Code: 562080

Time: Three Hours Maximum: 75 marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Explain the stages of drug discovery.
- 2. Explain the GCP obligations of investigators sponsors and monitors.
- 3. Explain the Code of Federal Regulatory and purple book.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Explain the generic drug product development.
- 2. Illustrate the pre-clinical studies.
- 3. Explain the timelines involved in Investigational New Drug (IND).
- 4. Explain the Abbreviated New Drug Application (ANDA).
- 5. Explain the overview of regulatory authorities of India.
- 6. Explain the procedure for export of pharmaceutical products.
- 7. Explain the Electronic Common Technical Document.
- 8. Explain Orange Book.
- 9. Elaborate on Federal Register.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Regulatory authorities of Canada.
- 2. Generic drug.
- 3. EMA.
- 4. Timelines involved in NDA.
- 5. Drug Master File.
- 6. Pharmacovigilance.
- 7. Institutional Review Board.
- 8. GCP.
- 9. Name the regulatory authority of Australia and USA.
- 10. Clinical Trials.

[B.PHARM 1223] DECEMBER 2023 Sub. Code: 2080 (SEPTEMBER 2023 EXAM SESSION)

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS) PCI Regulation 2017 - SEMESTER VIII PAPER X - PHARMACEUTICAL REGULATORY SCIENCE

Q.P. Code: 562080

Time: Three Hours Maximum: 75 marks

I. Elaborate on: Answer any TWO questions.

 $(2 \times 10 = 20)$

- 1. Define Investigational New Drug. Explain about its types and category.
- 2. Write a note on role and responsibilities of lead investigator and Node principal investigator.
- 3. Explain in detail about regulatory bodies govern the pharmaceutical sector in India.

II. Write notes on: Answer any SEVEN questions.

 $(7 \times 5 = 35)$

- 1. Write a brief note on resources of IND applications.
- 2. Explain the changes to an approved ANDA and assessing the effect of manufacturing changes.
- 3. Write a note on advance technologies in drug discovery.
- 4. Explain in detail about drug price control order (DPCO) 1995.
- 5. Write a note overview of regulatory authorities of Japan.
- 6. Write a note on module and benefits of e CTD.
- 7. Explain about institutional review board / Independent ethics committees (IECS).
- 8. Describe the importance of Hatch Waxman act.
- 9. Discuss in detail the contents of orange book.

III. Short answers on: Answer ALL questions.

 $(10 \times 2 = 20)$

- 1. Define regulatory affairs.
- 2. What is generic drug product?
- 3. What is marketing authorization application?
- 4. What is 180 day exclusivity?
- 5. What do you mean by good clinical practice?
- 6. Which ANDA process is applicable for 21 CFR Part 320?
- 7. Give the full form of following abbreviated terms: a) QMS, b) GPSP.
- 8. What is branded drug?
- 9. Give the task of post marketing drug safety unity.
- 10. Write about e CTD management software.
