

**PSG COLLEGE OF ARTS & SCIENCE**  
(AUTONOMOUS)

**BSc DEGREE EXAMINATION MAY 2025**  
(Sixth Semester)

Branch - **BIOTECHNOLOGY**

**BIOPHARMACEUTICALS**

Time: Three Hours

Maximum: 50 Marks

**SECTION-A (5 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks

(5 x 1 = 5)

- 1 Which one of the following is not a route of administration?  
 (i) Dissolution (ii) Oral  
 (iii) Topical (iv) Intravenous
- 2 Identify the terms which describe the application of pharmacokinetic principles to individualize pharmacotherapy?  
 (i) Drug individualization (ii) Individual factor monitoring  
 (iii) Patient factor monitoring (iv) Therapeutic drug monitoring
- 3 ----- is apart of quality management focussed on providing confidence that quality requirements will be fulfilled.  
 (i) Quality Management (ii) Quality Assurance  
 (iii) Quality Control (iv) Updating
- 4 Find out the analytical method in protein formulation  
 (i) Mass spectroscopy (ii) Light scattering  
 (iii) Chromatography (iv) All the above
- 5 Vincristine is a chemotherapy medication used to treat \_\_\_\_\_.  
 (i) HIV infections (ii) Anaemia  
 (iii) Cancer (iv) Tuberculosis

**SECTION - B (15 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks

(5 x 3 = 15)

- 6 a Write about the generics and its advantages.  
 OR  
 b Briefly explain about drugs and cosmetics.
- 7 a Classify the types of assay for testing drug potency.  
 OR  
 b Summarize the concept of tachyphylaxis.
- 8 a Comment on Good laboratory practices.  
 OR  
 b Bring out the role of culture collection centre.
- 9 a Explain briefly about the drug designing.  
 OR  
 b Summarize the biosafety guidelines.
- 10 a State the applications of somatotrophin.  
 OR  
 b Enlist the uses of curcumin and omega 3 fatty acids.

**Cont...**

**SECTION -C (30 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** Marks (5 x 6 = 30)

11 a Describe about Development Phases and Drug manufacturing process in pharmaceutical industry.

OR

b Describe routes of administration of drugs.

12 a Outline the principles of basic pharmacokinetics.

OR

b Discuss in detail about the drug allergy with examples.

13 a Describe about guidelines for QA and QC.

OR

b Outline the Role of public health laboratories and regulatory agencies.

14 a Enlist the analytical methods in protein formulation.

OR

b List out the international codes of bioethics.

15 a Describe the recent trends about insulin and diabetes management.

OR

b Elaborate the hematopoietic growth factors.

**Z-Z-Z**

**END**