

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Sixth Semester)

Branch – CHEMISTRY

DISCIPLINE SPECIFIC ELECTIVE – II :
PHARMACEUTICAL CHEMISTRY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 x 1 = 10)

1. What is the first-line drug for patients with type 2 diabetes and obesity?
(a) Acarbose (b) Sulfonylureas
(c) Metformin (d) Insulin
2. Which disease is caused by bacteria?
(a) Measles (b) Cholera
(c) Malaria (d) AIDS
3. Fit the Tetracycline drug in the following category?
(a) Antibiotic (b) Antimalarial
(c) Antileprotic (d) Antitubercular
4. Which drug is used to lower the body temperature?
(a) Antipyretics (b) Antiseptic
(c) Analgesics (d) Disinfectant
5. Where barbiturates are primarily used as medicine?
(a) Hypnotic (b) Sedative
(c) Antiepileptic (d) Preanaesthetic medicant
6. Which of the following is not a Barbiturate?
(a) Phenobarbital (b) Pentobartbital
(c) Thiopental (d) Diazepam
7. Where calcium is essential in the following?
(a) Blood purification of whaler bone (b) Blood clotting
(c) Both of the above (d) None of these
8. Which of the following is bentonite?
(a) Kaolinite (b) Sodium Montmorillonite
(c) Illite (d) Limonite
9. Which point of blood pressure considered "high"?
(a) 120/80 mmHg (b) 130/80 mmHg
(c) 140/90 mmHg (d) 210/120 mmHg
10. What is the normal pH of blood?
(a) 7.3 (b) 7.2
(c) 7.4 (d) 8.4

Cont...

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 5 = 25)

11. (a) How will you estimate the sugar in urine?
(OR)
(b) Narrate the routes of administration of drugs.
(OR)
12. (a) Describe about the antipyretics.
(OR)
(b) Outline the therapeutic uses and adverse effects of penicillin.
13. (a) How will you differentiate between antiseptics and disinfectants?
(OR)
(b) Sketch out the structure and uses of barbiturates.
14. (a) Describe the medicinally important compounds containing Aluminium.
(OR)
(b) Explain the medicinally important iron compounds.
15. (a) Explain about the cardiovascular drugs. How will you classify it?
(OR)
(b) Describe the blood pressure.

SECTION -C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 8 = 40)

16. (a) Describe about the water borne diseases.
(OR)
(b) Discuss in detail about diabetes.
17. (a) Highlight the analgesics and give its classification.
(OR)
(b) Elucidate the mode of action of sulphonamide drugs.
18. (a) Highlight the recent developments in modern cancer chemotherapy?
(OR)
(b) Enumerate the anti-neoplastic agents?
19. (a) Discuss the following medicinally important inorganic compounds.
(i) Arsenic compounds: (ii) Phosphorus compounds:
(OR)
(b) Narrate the biological role of sodium, potassium and their compounds.
20. (a) Infer the composition of blood, grouping and Rh factor.
(OR)
(b) Explain about the Antihypertensive agents.

Z-Z-Z

END