

# GPAT 2024 Question Paper

---

## Human Anatomy

**Ques 1. Salivary amylase digests which one of the following?**

**Ans.** Starch

**Ques 2. Murmur occurs due to which?**

**Ans.** Heart valves

**Ques 3. Which is the number of bones in the appendicular skeleton?**

**Ans.** 126

**Ques 4. Which of the following diseases is caused by the deficiency of Niacin?**

**Ans.** Pellagra

**Ques 5. DNA replication occurs in which phase of the cell cycle?**

**Ans.** M phase

**Ques 6. What is the name of the colored part present in the eye?**

**Ans.** Iris

**Ques 7. Which nerve works instrumentally as a motor nerve?**

**Ans.** Accessory

**Ques 8. Which cranial nerve regulates the heartbeat?**

**Ans.** 10 (Vagus nerve)

**Ques 9. Melatonin is secreted by which gland?**

**Ans.** Pineal gland

**Ques 10. What is the starting material of corticosteroid?**

**Ans.** Cholesterol

**Ques 11. Which hormone is not secreted by the placenta?**

**Ans.** LH (Luteinizing Hormone)

**Ques 12. Renin is secreted by which cell?**

**Ans.** JG cells (Juxtaglomerular cells)

**Ques 13. Name the outer covering of testes.**

**Ans.** Tunica vaginalis

**Ques 14. Wilson disease is due to which deficiency?**

**Ans.** Copper deficiency

## Chemistry

**Ques 15. Which is a meta directing group in chemistry?**

**Ans.** CF<sub>3</sub>

**Ques 16. Thioglycolic acid is used in which process?**

**Ans.** Iron (specifically for reducing ferric iron to ferrous iron)

**Ques 17. Which compound undergoes fast nitration in the presence of H<sub>2</sub>SO<sub>4</sub>?**

**Ans.** Toluene

**Ques 18. What is the equivalent weight of KMnO<sub>4</sub> in acidic medium?**

**Ans.** 31.6

**Ques 19. Which is the shortest-acting anticholinesterase?**

**Ans.** Edrophonium

**Ques 20. What is the mechanism of action of fluoroquinolones?**

**Ans.** Inhibition of DNA Gyrase and topoisomerase

**Ques 21. What is the causative agent for Syphilis?**

**Ans.** Treponema pallidum

**Ques 22. Leprosy is what type of infection?**

**Ans.** Bacterial

**Ques 23. What is the catalyst for the Oppenauer oxidation reaction?**

**Ans.** Aluminum tertiary butoxide

**Ques 24. What is Lindlar's Reagent?**

**Ans.** Pd, CaCO<sub>3</sub> (Palladium on calcium carbonate)

**Ques 25. Which of the following is a spirit of salt?**

**Ans.** HCl (Hydrochloric acid)

**Ques 26. Give an example of a DPP4 Inhibitor.**

**Ans.** Sitagliptin

**Ques 27. How many optical isomers are possible for lactic acid?**

**Ans.** 2

**Ques 28. What ring is present in Famotidine?**

**Ans.** Thiazole ring

**Ques 29. Which formula is used for the calculation of child dose based on weight?**

**Ans.** Fried's formula

## Pharmacy

**Ques 30. What is the rate-limiting step of controlled release?**

**Ans.** Dissolution

**Ques 31. Impact and attrition are principles of which device?**

**Ans.** Fluid energy mill

**Ques 32. What test is used for digitoxose?**

**Ans.** Killer-Killiani test

**Ques 33. What are the in-process quality control tests for tablets?**

**Ans.** Hardness, Friability, Weight measurement

**Ques 34. Pterocarpus belongs to which family?**

**Ans.** Leguminosae

**Ques 35. Give an example of a BCS classification class III drug.**

**Ans.** Famotidine, Nadolol, Atenolol

**Ques 36. How many pharmacists are required for a 300 bedded hospital?**

**Ans.** 10

**Ques 37. Alfalfa belongs to which family?**

**Ans.** Leguminosae

**Ques 38. Weighing machines work on the principle of which energy?**

**Ans.** Reflect energy (Roto weigh)

**Ques 39. Which viscometer is used to measure Newtonian flow?**

**Ans.** Ostwald viscometer