

B.Sc./4th Sem (H)/PHYS/24(CBCS)/New

2024

4th Semester Examination PHYSIOLOGY (Honours)

Paper: C 9-T

(Physiological Responses Environment and Drugs)

(New Syllabus)

[Revised Syllabus, w.e.f. Session 2022-23]

[CBCS]

Full Marks: 40 Time: Two Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Group - A

F	Answer any five of the following questions:	2×5=10
1.	What is complete agonist?	2
2.	Define primary, secondary and tertiary polluexamples.	atants with
3.	What is therapeutic index?	2

P.T.O.

4. What is TD50?	*0.2
5. What is frost bite?	2,0
6. What are diuretics? Give example.	1+1
7. What is bio-magnification?	2
8. What are the differences between mutagen and carcin	ogen?
Group - B	
Answer any four of the following questions: 53	×4=20
9. Discuss the mechanism of durg biotransformation.	5
10. What are the physiological responses to cold environment? and how does the body get acclimatized to the environment?	onment ae cold 3+2
11. What is hyperbaric therapy? What are the effects on human health?	of noise 2+3
12. What is oxidative stress? What are the roles of G SOD in combating oxidative stress?	PX and 3+(1+1)
13. What is mountain sickness? How do climbers acc to mountain sickness?	limatize 3+2
14. Describe the mechanism of action of tubocurar nicotine on neuromurscular junctions.	ene and 2½+2½

Group - C

Answer any *one* of the following questions: $10 \times 1 = 10$

- 15. Discuss the mechanism of action of propranolol. What are the health impacts of air pollution? What are transdermal patches?

 5+4+1
- 16. Describe the effects of narcotic analgesics on the central nervous system and discuss the mechanism of action of these drugs. How does physostigmine affect cholinergic neurotransmission? (4+2)+4

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4th Semester Examination PHYSIOLOGY (Honours)

Paper: C 9-T

(Gastrointestinal Function)

(Old Syllabus)

[CBCS]

Full Marks: 40 Time: Two Hours

The figures in the margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

Group - A

F	Answer any <i>five</i> of the following questions: 2×5	=10
1.	What is Meissner's neve plexus? State its functions.	1+1
2.	What is pancreatitis?	2
3.	What is GERD?	2
4.	Write down two histological characteristics of sali	vary
	glands.	1+1
5.	Define steatorrhea.	2
6.	What are Kupffer cells? Mention its functions.	1+1

7. State the composition of bile salts.	
8. State the function of Wharton's duct and Stensen's duct. 1+1	
Group - B	
Answer any <i>four</i> of the following questions: $5\times4=20$	
9. Write a short note on dietary fibres. What is dysphagia? 4+1	
10. Write a short note on gastritis. What are chylomicrons? 3+2	
 Briefly discuss the digestion of carbohydrates in GI tract. 	
12. State the process and advantages of sham feeding. 2+3	
13. Discuss the regulation of gastric secretion. 5	
 What is xerostomia? Describe the histological structures of gastric glands. 	
Group - C	
Answer any <i>one</i> of the following questions: $10 \times 1 = 10$	
15. Write short notes on the following: 5+5	
(a) Gastrin	
(b) Composition and Function of Saliva	
16. Briefly discuss the digestion and absorption of lipids in the GI tract. 5+5	