2013

M.Sc.

4th Semester Examination

BIOCHEMISTRY

PAPER-BIC-402

Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Group — A

1. Answer any five from the following:

- 5×2
- (a) How does Vipor Venom work in the living system?
- (b) What is seasonal allergy?
- (c) What is the use of 6-OH-Dopamine in neurology research?
- (d) What are reactive nitrogen species? Why it is harmful?
- (e) What are phase-II drug metabolizing enzymes?
- (f) Define eustress and distress.
- (g) What is genotoxic carcinogen?
- (h) What is Huntington's chorea?

Group — B

		Answer any two from the following:	2×5	
2.		hat are the features of Alzheimer's Disease? Me brief its cause and possible therapeutic manage		
		2 2	$\frac{1}{2} + 2\frac{1}{2}$	
3.	Но	How stress factors modulate immunity?		
4.		Mention antioxidative and pro-oxidative property of ascorbate.		
5.		Discuss on Phase-I drug metabolising enzymes. Why polycyclic aromatic hydrocarbons are harmful? 3+2		
		Group — C		
		Answer any two from the following:	2×10	
6.	(i)	What is Cotard Syndrome?		
	(ii)	What is the neurological basis of HIV-association Dementia?	ciated	
	(iii)	How stress can generate hypertension? 2	+5+3	
7.	(i)	Define biotoxin. Mention their primary function	ns.	
	(ii)	What is biotransformation of xenobiotics? (2-	+4)+4	
8.	(i)	Define heat stress index.		
	(ii)	Briefly define immunogen, allergen, carcinogen. are their mode of action?	What 3+7	
9.	(i)	Discuss in brief about nanomedicine.		
	(ii)	Why porus silica are utilizable in biotechnoloresearch work? Mention its advantage.	ogical	
	(iii)	What is nanofibres?	+4+2	