2019

M. Phil 2nd Semester Fixamination LIFE SCIFNCE

Paper: LSC-123

Full Marks: 40

Time: 2 Hours

The figures in the margin indicate full marks.

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

It the answers wherever necessary.

(Elucidation of Biomolecules)

Group - A

(Marks : 8)

1.	Answer any four questions from the following	:	4	× 2
a)	What are deoxy sugars? Give examples.			1+1
b)	What is rancidity?		90	2
c)	What is molten globule?			2
d)	Mention two endocrinopathic disease of GH.		15	2
e)	What is the chemical nature of carotenoids?			2
f)	Mention two deficiency symptoms of vitamin E.			2

Group - B

(Marks : 16)

2.	Answer any for ur questions from the following: 4×4
a)	Write down the signaling mechanism of glucagon epinephrine by GPC. R. 4
b)	Describe the biological importance and application of flavones. $2+2$
c)	Differentiate the configuratio n of parallel and anti-parallel β -plated sheet.
d)	What are quinones? Name some important quinones with the uses.
e)	morphine.
1)	F is cuss the formation of micelles an $\frac{31}{4}$ ues. $2+2$
	Group - C
	(Marks : 16)
3.	Answer any two questions from the following: 2×8
a)	Elucidate the different isoforms of inositol mentioning the function of inositol. Describe the laminated and randomly branched structure of amylopectin. Mention the application of heparin. $(2+2)+(1+1)+2$
)	Describe diagrammatically the metabolism of chylomicron with special reference to lipoprotein lipase.
	Write down a note on 'good cholesterol carrier'. (3+2)+3
;)	Write down the significance of protein folding. Discuss the role of molecular chaperones in protein folding with special reference to Hsp 60. 3 + 5
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