



Postgraduate PhD degree of Medical Biochemistry and Molecular Biology

Blueprint of (Biochemical aspects of inflammation) course (PhD) <u>Course Code: (BIC604BAI)</u>

The total marks of this course are 100, divided as:

- Workplace-based assessment (20 marks)
- Written exam (80 marks), distributed as follows:

Course content	Teaching hours	Relative weight to the total marks	Total Marks	MCQ Marks	No of exam Q (MCQ)	Short essay questions Marks	No of exam Q (short essay questions)
Introduction to inflammation: - Types of inflammation (Acute & chronic)	2	9.1%	7	5		2	
Molecular and cellular events for inflammatory genes activation: a) Inflammatory inducers: PAMPs & DAMPs. b) Inflammatory sensors — pattern recognition receptors: types & signaling pathways. c) Inflammatory signaling pathways: IKK-NF-kB, JNK-MAP — JAK-STAT.	10	45.5%	36	25		11	
Biochemical mediators of acute inflammation & resolution: a) Vasoactive amines.	8	36.4%	29	20		9	





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b) Peptides.							
c) Proteins: cytokines,							
chemokines, molecules of							
leucocyte & endothelial							
adhesion, serum cascade							
system, acute phase reactants,							
enzymes and hormones.							
d) Eicosanoids.							
Metabolic regulators of	1	4.5%	4	3		1	
inflammation	_		·			-	
Biochemistry of chronic							
inflammatory disorders:							
a) Metabolic inflammation							
(Metaflammation)	1	4.5%	4	3		1	
b) Neuroinflammation							
c) Autoinflammation							
d) Sepsis							
Total	22	100%	80	56		24	

Head of Biochemistry & Molecular Biology Department Prof. Fagr Bazeed