Ministry of Higher Education and Scientific Research Scientific Supervision and Scientific Evaluation Apparatus Directorate of Quality Assurance and Academic Accreditation Accreditation Department



Academic Program and Course Description Guide

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

<u>Course Description:</u> Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

<u>Program Vision:</u> An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

<u>Program Mission:</u> Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

<u>Program Objectives:</u> They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

<u>Curriculum Structure:</u> All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

<u>Learning Outcomes:</u> A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extracurricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: Baghdad University

Faculty/Institute: AL-Kindy College of Medicine

Scientific Department: Department of Chemistry and Biochemistry

Academic or Professional Program Name: Biochemistry

Final Certificate Name: Bachelor of medicine, Bachelor of surgery

Academic System: Semester /second semester

Description Preparation Date: 2/4/2024

File Completion Date: 2/4/2024

Signature:

Head of Department Name:

Assistant Professor dr. Yasir

Abbas Atea

Date:

Signature:

Scientific Associate Name:

Professor dr. Taghreed

Alhaydari

Date:

The file is checked by: Dr. Ascal Someer Mohamed

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

28/4/2024

Signature:

Approval of the Dean

The Dean

Prof. Dr.

Mohammed Shihab Al-Edanni

1. Program Vision

To fulfill the goal of graduating excellent, safe, competent, and professional doctors at both the undergraduate and postgraduate levels who are dependable in providing health care services and leadership

2. Program Mission

To fulfill the goal of graduating excellent, safe, competent, and professional doctors at both the undergraduate and postgraduate levels who are dependable in providing health care services and leadership

3. Program Objectives

- 1. To produce a competent who is able to demonstrate comprehensive understanding of biochemistry as well applied disciplines
- 2. To acquire skills effectively in interpreting the laboratory reports
- 3. To perform relevant investigations which will help to diagnose important medical conditions.

4. Program Accreditation

The Higher Accreditation Program of Iraqi Medical Colleges, supervised by the Ministry of Higher Education and WHO

5. Other external influences

Non

Program Structure	Number of	Credit hours	Percentage	Reviews*
A P. Actor Malling Property in A. P.	Courses		接性的结束	
Institution	12	129 Hours (Theory)		Basic
Requirements		48 hours (Practical)		
College	12	129 Hours (Theory)		Basic
Requirements		48 hours (Practical)		
Department				
Requirements				
Summer Training	- I		1	1

This can include notes whether the course is basic or optional.

ear/Level	Course Code	Course Name	Cred	it Hours
美国的基础的基础	Transport	THE THE PARTY OF T	theoretical	practical
ear 1—Second	BCH_112	Biochemistry	30	30
Zear II/ first semester.	MET 202	Metabolism metabolism	30	
Year ∏	HLS 204	Hemopoietic & Lymphatic Module(5).	7	2
Biochemistry		Hemopoietic & Lymphatic Module(0.5)		
Year II First Semester	MSK 205	Müsculoskeletal System Module (5)	8	

	Musculoskeletal
	System Module(0.5)
ear II = Second	CVS 1 Cardiovascular 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
emester	210 System Module (5)
TTODERTEE.	Cardiovascular
Biochemistry	System Module(0.5)
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/ear II – Second	化化生物性的 海绵 化铁石的 经规则的 有气体 "这是有的吗?""我就是我们就是这些,我没能能够不够有好的。""我说:"我见你,""这样的人就们都
Semester	1 211 - Module (5)
	Respiratory System
Biochemistry	Module (0.3)
3	
Year II - Second	还有上足,我们就是我们就看到那些人,这样的点点,也是我们的"我们"的"我们"的"我们"的"这"的"我们"的"我们",这一点一点,这么是一个一样的一样的"我们"的
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Biochemistry.	Endocrine System
高行政政策等。	NCS Neurosciënces
Year III First	
Semester	301 System (8)
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Biochemistry	System (0.5)
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Year III - Second	
Semester	
Biochemistry	Reproductive System
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Year III — First	Integumentary system 303 Module (2)
Semester	
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Biochemistry	Modifie (0.1)
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Year II. Second	212 and Pancreas Module
Semester	
	GIT, Biver, Biliary
Biochemistry	and Pancreas Module
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9. Expected learni	ng outcomes of the program
Knowledge	
Learning Outcomes 1	A. Cognitive goals A1. To understand the molecular basis of the normal and/or abnormal functioning of an organ system starting from the basic concept of biochemistry
Skills Learning Outcomes 2	B1. To be oriented with new technologies and analytical techniques that have been introduced, with their impact on the practice of clinical chemistry and laboratory medicine.
Learning Outcomes 3	B2. To have skills to be more effectively in interoperating and understanding laboratory reports.
Ethics	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
Learning Outcomes 4	To equip themselves for teamwork
Learning Outcomes 5	Develop communication skills and etiquette with sense of responsibility

10. Teaching and Learning Strategies -Lectures -Small group discussion -Practical -Tutorial and discussions -Skill labs.

11. Evaluation methods

- 1) Written examination
- 2) practical assessment
- 3) daily activities
- 4) final year examination

Faculty					建制建筑	
12. Faculty Faculty Members	· 地方中	TOTAL	在上海生活	· · · · · · · · · · · · · · · · · · ·		
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			(if applicable)			
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Professional Development

Mentoring new faculty members

Briefly describes the process used to mentor new, visiting, full-time, and part-time faculty at the institution and department level.

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

13. Acceptance Criterion

Candidate from central admission to the Ministry of Higher Education

15	14. The most important sources of information about the program
they were to be a first super above the super to the supe	1-Department of Biochemistry
	2-Al-kindy Medical College
	3-Ministry of Higher Education and
	Scientific Research.

16. Program Development Plan

This involves meetings at the level of the department and college To be aware of the syllabus of other universities

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			C3	×	×	×	×	×
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	Required program Learning outcomes	Ethics	C1	×	×	×	×	×
	arning		B4	×	×	×	×	×
蠕喘	ım Le		B3	×	×	×	×	×
	rogra		B2	×	×	×	×	×
	ired J	SKIIIS	B1	×	×	×	×	×
ne	Requ		A4	×	×	×	×	×
	•		A3	×	×	×	×	×
Skills	Control of the Contro	edge	A2	×	×	×	×	×
Program Skills Outline		Knowledge	A1	×	×	×	×	×
Proc		Basic or	optional	Basic		Basic	Basic	Basic
		Course Name		Biochemistry		Metabolism	Hemopoietic & Lymphatic Module	Musculoskelet al System Module
		Course	Code	BCH 112		MET 202	HLS 204	MSK 205
		Year/Level		Year 1- Second	semester	Year II/ first semester		

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	CVS 210 Cardiovascula r System Module	RSP 211 Respiratory System Module	Endocrine System	GIT, Liver, Biliary and
	CVS 210	RSP 211	ENS 302	GIT 212
	Year II – Second Semester			

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Pancreas Module	Neur Syste	Repr Syste	Integum system Module	REN 307
	NCS 301 Neurosciences System	REP 308	INS 303	Year III – Second Semester
	NCS	REP	SNI	Yea - Se Sem
	Year III – First			,
	Yea Firs	B 	·	

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Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

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		Name:	agar.
		nd Biochemistry	
2. Cou	rse.	Code	
BCH	11		4-9
3. Sem	est	er/Year.	
		emester / Year 1	.335.
4. Des	crip	tion Preparation Date:	
5/4/			
		le Attendance Forms:	
			翻
6. Nur	nbe	r of Credit Hours (Total) / Number of Units (Total) rs / 28 hours lectures. 4 hours discussions, 30 hours practical.	200
62 I	10U	eadministrator's name (mention all, if more than one name)	27 27 27
		Biochemistry	
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En	an. 1ail	: nour.a@kmc.uobaghdad.edu.iq	
 -		The state of the s	3 100
[‡] : 8 : Cοι	ırse	Objectives	
Course	a)	Demonstrate knowledge and understanding of the molecular machinery of living cells.	
Objectives	b)	Demonstrate knowledge and understanding of the principles that govern the structu	ules
		macromolecules like Proteins, carbohydrate, lipids, nucleic acids, Purines and pyrimidines.	
	c)	Demonstrate knowledge and understanding of the principles and basic hormonal mechanis	, ns
		molecular signaling.	
•	d)	Use basic laboratory skills and apparatus to obtain reproducible data from biochemical experim	
	e)	Implement experimental protocols, and adapt them to plan and carry out simple investigations. Analyze, interpret, and participate in reporting to their peers on the results of their lateral controls.	b
	f)	experiments.	
	g)	Participate in and report orally on team work investigations of problem-based assignments.	
	b)	Build on their knowledge and understanding in tackling more advanced and specialized cours	5 (5
	"	more widely to pursue independent, self-directed and critical learning.	
			_ _
			

9 Teaching and Learning Strategies

Strategy

- Lectures
- Practical
- Group Discussion

Veek	se Structure	Required Learning	「全部できる数と数となってはなる数とは、 では、数とは、数とは、数とは、数をは、数とは、数とは、数とは、数とは、数とは、数とは、数とは、数とは、数とは、数と	Learning	Evaluation method
	62	Knowledge,skills and values	Biochemistry	Lectures Practical Group Discussion	1- Written examination 2- practical assessments 3- homework's

11. Course Evaluation

- 10% for active participation, assignment & quizzes that delivered in class
- 5 % for active participation, assignment & quizzes that delivered in lab
- 15% for End course exam.
- 70% for the Final exam.
 - ✓ 20% practical
 - ✓ 50% written

12. Learning and Teaching Resources : 1.2

Required textbooks (curricular books, if any)

1-Vasudevan DM, Seekumari S. Vaidyanathan K. Textbook of biochemistry for medical students. Jaypee brothers Medical Publishers Ltd , New Delhi, 7th ED 2013.

in biochemistry. Lippincott Williams & ED, 2008. 3-Vasudevan DM, Seekumari S.Vaidyanat Textbook of biochemistry for medical sobrothers Medical Publishers Ltd., New 2013. Champe PC, Harvey RA Lippincott III biochemistry. Lippincott Williams & Williams	2-	-Champe PC, Harvey RA Lippincott Illustrative review	
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3.4.2024 10.Available Attendance Forms:	10 Available Attendance Forms	。 第一章	

11: Number of Credit Hours (Total) / Number of Units (Total)

49 hours lectures. 16 hours discussions, 10 hours practical. Total credit 4.2

12. Course administrator's name (mention all, if more than one name)

Metabolism module /Assist.prof.Huda Saleem / Mrs.Raghad Qasim

Hematopoietic and lymphatic module/Dr. Esraa Mohammed Abd Al-Khaleq / Lec. Shatha Zuhair

Musculoskeletal system module/Dr. Estabraq Mahmood Mahdi/ Dr. Safa Salman Mazban

Cardiovascular system module/Dr. Saad Badai Nashter/ Dr. Saba Jasem Hamdan

Respiratory system module/ Dr. Raghad Emad AL-deen Naji/ Dr. Mohammed Natiq Abbas

Endocrine system module/ Dr. Mohammed Natiq Abbas/Assist Lec. Saba Thaer Abd Al-Kareem

Renal system module / Dr.Shatha Salah/ Dr.Rajaa Muhammed Ali / Mrs.Raghad Qasim

Course Objectives

13: Course Objectives To outline the role of the biochemical process that takes place during metabolism & to prov understanding of the biochemical process and the biochemical mechanisms of diseases state hemopoietic lymphatic, respiratory, digestive, cardiovascular system which will provide mod medicine with rationale basis for the diagnosis and therapy.

14. Teaching and Learning Strategies

Strategy

- 1. Lectures.
- 2. Discussions
- 3. Practical labs

15 Course Structure

Week	Hour	Required Learning Outcomes	Unit or	Learning method	Evaluation method
30	75	Knowledge,skills a	Biochemistry	Lectures •Practical •Group Discussi	4- Written examinations5- practical assessment6-
			- T - 1277 ATMS (COT) - e	- 1 02 1700 to 57 02.50 (which is 12 12.50)	

16. Course Evaluation

17 Learning and Teaching Resources

Main references (sources)

review in biochemistry. Lippincott Williams &Wilkins, 6th ED, 2018.

	Vasudevan DM, Seekumari S.Vaidyanathan K Textbook of biochemistry for medical students Jaypee brothers Medical Publishers Ltd., New Delhi, 7th ED. 2013
Recommended books and references (scientific journals, reports) Electronic References, Websites	 Al Kindy Medical Journal http://www.moh.gov.iq/ https://byjus.com/biology/mcq-on-proteins/ https://www.mcqbiology.com/2012/11/mcq-on-biochemistry-proteins.html https://www.ourbiochemistry.com/

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	system module
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3. Integumentary	
-	HB System module
5. Renal system	module
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3.4.2024 3.4.2024	Aftendance Forms:
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6 Number o	f Credit Hours (Total):/ Number of Units (Total):
<u> </u>	
28 hours lectures	s. 4 hours discussions, 8 hours practical. Total credit 2.4
7. Course ad	ministrator's name (mention all, if more than one name)
Neurology system r	module/Dr. Marwa Ali Mohammed/ Saad Hassan Qassem
Reproductive system	m module/Dr. Batool Mutar Mahdi/ Basma Maki Kedhem
Integumentary mod	lule/Dr. Mohammed Abd Al-Hussein Lafta/ Bushra Yassin Tawfeeq System module/Dr. Haider Hashim Abd Al-Razaq/ Suhad Taha Mohammed
Urinary system mo	dule/ Dr. Shatha Salah Saad/ Raghad Qassem Mohammed
8. Course Ol	pjectives 法是工具类型的性质的工作,实验是特性的工作。
Course Objective	es To provide an understanding of the biochemical process and the biochem
_	mechanisms of diseases state of the nervous, urinary, reproductive, endocrine & integumentary system which will provide modern medicine
	with rationale basis for the diagnosis and therapy. In addition, it provides
	guidance on the selection of tests as assessment of the significance of the
	results.
9. Teaching	and Learning Strategies
Strategy	
1. 1	Lectures.
1. 1. 2.	Discussions
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1. 1. 2.	Discussions
1. 2.	Discussions

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week.	Höurs	cture Required	Initeor	Learning	Evaluation 2225
the Blas	Hous:	Learning	subject		method ***
	LEADURAL.	Outcomes 1	name :	1-Lectures.	1. Written
25	40	Knowledge,skills		2-Discussions	examinations
		and values		3-Practical labs	2. practical
					assessment 3. homework's
					5. Homework 5
11 C	 ōurse Eva	aluation	TALL THE		· "是一个,"
• 10%	6 for acti	ve participation, assi	gnment &	quizzes that deliv	ered in class
		ve participation, assig			
		l - course exam.			
· 709	% for the	Final exam.			
	20% prac				
_	50% writ		COCHE LET LE		
Dean	earning a	and Teaching Resour ooks (curricular book	s. ifar ♦ (Champe PC, Harv	ey RA Lippincott
Main	reference	es (sources)	I	llustrative review	in biochemistry.
ITALIXI		- (TICOPTICATE A TAILER	111 010 0111
				Lippincott Willian	
			l		
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		l books and refer	I	Lippincott Willian ED, 2018. Vasudevan DM, S S.Vaidyanathan F	ns & Wilkins, 6th Seekumari K. Textbook of
			I	Lippincott William ED, 2018. Vasudevan DM, S. Vaidyanathan F biochemistry for	Seekumari K. Textbook of medical students.
		l books and refer	I	Lippincott William ED, 2018. Vasudevan DM, S. Vaidyanathan F biochemistry for Jaypee brothers M	Seekumari K. Textbook of medical students. Medical Publishers
		l books and refer	I	Lippincott William ED, 2018. Vasudevan DM, S. Vaidyanathan F biochemistry for	Seekumari K. Textbook of medical students. Medical Publishers
		l books and refer	ences *	Lippincott Willian ED, 2018. Vasudevan DM, S. Vaidyanathan F biochemistry for Jaypee brothers M Ltd., New Delhi,	Seekumari K. Textbook of medical students. Medical Publishers 7th ED. 2013
(scie	ntific jour	l books and refer nals, reports)	ences *	Lippincott William ED, 2018. Vasudevan DM, S. Vaidyanathan F biochemistry for Jaypee brothers M Ltd., New Delhi, Kindy Medical Je	Seekumari K. Textbook of medical students. Medical Publishers 7th ED. 2013
(scie	ntific jour	l books and refer	ences *	Lippincott William ED, 2018. Vasudevan DM, S. Vaidyanathan F biochemistry for Jaypee brothers N Ltd., New Delhi, Kindy Medical Jo	Seekumari K. Textbook of medical students. Medical Publishers 7th ED. 2013 ournal ouh.gov.iq/
(scie	ntific jour	l books and refer nals, reports)	ences *	Lippincott William ED, 2018. Vasudevan DM, S. Vaidyanathan F biochemistry for Jaypee brothers N Ltd., New Delhi, Kindy Medical Jo http://www.m	Seekumari K. Textbook of medical students. Medical Publishers 7th ED. 2013
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13 Course	Name: Figure 1 12 12 12 12 12 12 12 12 12 12 12 12 1
	system module
	ve system module
	ary module
_	nd HB System module
-	
10.Urinary sys	stem module
14.Course	Code:
NCS 301	
REP 308	
INS 303	
GIT 212	
REN 307	
15.Semeste	er/Year:
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- 16.Descrip	tion Preparation Date:
5.4.2024	THE RESERVE OF THE PARTY OF THE
हेर् 17. Availab	le Attendance Forms:
contract the second of the second of	· · · · · · · · · · · · · · · · · · ·
18.Nümbe	r of Credit Hours (Total) / Number of Units (Total)
-01 1 .	201 1: 201 tipel Total gradit 6.1
70 hours lectu	res. 38 hours discussions, 38 hours practical. Total credit 6.1
19.Course	administrator's name (mention all, if more than one name) m module/Dr. Marwa Ali Mohammed/ Saad Hassan Qassem
Reproductive sy	stem module/Dr. Batool Mutar Mahdi/ Basma Maki Kedhem
Integumentary r	nodule/Dr. Mohammed Abd Al-Hussein Lafta/ Bushra Yassin Tawfeeq
Digestive and H	B System module/Dr. Haider Hashim Abd Al-Razaq/ Suhad Taha Mohammed
Urinary system	module/ Dr. Shatha Salah Saad/ Raghad Qassem Mohammed
20.Course	Objectives 22-12-12-12-12-12-12-12-12-12-12-12-12-1
Course Object	tives To provide an understanding of the biochemical process and the biochemi
	mechanisms of diseases state of the nervous, urinary, reproductive, endocrine & integumentary system which will provide modern medicine
	with rationale basis for the diagnosis and therapy. In addition, it provides
	guidance on the selection of tests as assessment of the significance of the
	results.
21.Teachi	ng and Learning Strategies
Strategy	1. Lectures.
	2. Discussions
	3. Practical labs

-22.≝Co	urse Str	ucture			
Week*	Hour s	Required Learning Outcomes	Unit or subject	method	Evaluation method
28	146	Knowledge,skills a		1-Lectures. 2-Discussions 4-Practical labs	4. Written examinations5. practical assessment6. homework's

23:Course Evaluation

Scoring System in the 3rd year is: (Total 100%)

- ❖ 10% for active participation, assignment & quizzes that delivered in class
- ❖ 5 % for active participation, assignment & quizzes that delivered in lab
- ❖ 15% for End course exam.
- ❖ 70% for the Final exam.
 - ✓ 20% practical
 - ✓ 50% written

24 Learning and Teaching Resources	美工作的基本的一种企业的	
Required textbooks (curricular books, if any)	Champe PC, Harvey RA Lippincott	
Main references (sources)	Illustrative review in biochemistry.	
, ·	Lippincott Williams & Wilkins, 6th EI	
	2018	
Recommended books and references	Another suggested book:	
(scientific journals, reports)	•Vasudevan DM, Seekumari	
	S.Vaidyanathan K. Textbook of	
	biochemistry for medical students.	
	Jaypee brothers Medical Publishers Lt	
	New Delhi, 7th ED. 2013	
	Suggested Journals Al Kindy Medical Journal	
Electronic References, Websites	http://www.moh.gov.iq/	
	https://byjus.com/biology/mcq-	
	on-proteins/	

- https://www.mcqbiology.com/201
 2/11/mcq-on-biochemistryproteins.html
- https://www.sanfoundry.com/
- https://www.ourbiochemistry.com/