

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR**

**UG Department of Biotechnology
Add on Course: Nutritional Biochemistry
Session 2022-23
Course Coordinator Report**

A free Add-On Course for UG students in the Department Biotechnology, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur was held from 06th January 2023 to 11th March 2023. The course title was "Nutritional Biochemistry". It is the complete beginner to Expert Course was perfect for anyone who wants to learn Nutritional Biochemistry.

The Nutritional Biochemistry course is designed to explore the biochemical basis of nutrition, focusing on metabolic pathways, nutrient interactions, and their impact on human health. Students will learn about dietary analysis, metabolic disorders, and strategies for nutritional planning.

The course duration was 10 weeks (30 hours). Two theory classes were engaged on Friday & Saturday and one Practical was engaged in every week. The structure of marking system was 50 marks on theory paper and 40 marks on practical examination including 10 marks for internal. The question paper of theory examination was in MCQ type of 25 questions with four multiple choices. Practical examination was also taken on this course for 40 marks. Internal marks assessment was on the basis of regularity, attendance, assignment submission etc. / Out of 83, 81 were present in both theory and practical examination. The result was prepared and certificates were also distributed to the students.

Action Taken -Completing a course in Nutritional Biochemistry typically equips a total 83 participants with a deep understanding of the biochemical processes underlying nutrition and metabolism. Students gain insights into how nutrients affect cellular function, metabolic pathways, and overall health. They learn to analyze the biochemical impact of various diets and nutritional interventions, making it possible to develop personalized nutrition plans based on scientific evidence. The course also enhances skills in evaluating and interpreting research related to nutrient metabolism and health outcomes. Ultimately, it prepares individuals to apply biochemical principles to address dietary needs and improve health, whether in clinical settings, research, or public health nutrition.



Ms. Mayuri Bhad
Ms. Mayuri Bhad
Course- Coordinator
Add on Course

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR
UG Department of Biotechnology
Add on Course: Nutritional Biochemistry
Session 2022-23

To,
The Principal
SSES Amt's Science College,
Congress Nagar, Nagpur-12

Subject: Permission to conduct the add on courses in the Microbiology and Biotechnology department during the session 2022-2023

Respected Sir,

This is to request you that, we wish to conduct the add on courses in Microbiology and Biotechnology department these are the certificate courses of thirty hours' time duration.

The details of the courses are submitted here with.

Hence please permit to run the same and oblige me.

Thanking you

Yours sincerely

Abbas

HEAD
Department of Microbiology
Science College, Congress Nagar,
NAGPUR.

2/07/2022



*Permitted
A. S. Joshi*

**SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR**

UG Department of Biotechnology

NOTICE

Date: 08/01/2023

All the students are informed that **U.G. Department of Biotechnology** runs **Add on Course: Nutritional Biochemistry** for the session 2022-23. Interested students of B.Sc. are requested to provide their names to the course Coordinator Ms. Mayuri Bhad on or before 18/01/2023.



MSBhad
Ms. Mayuri Bhad
Course- Coordinator
Add on Course



**U.G. DEPARTMENT OF BIOTECHNOLOGY,
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR**

Accredited with CGPA of 3.51 at 'A+' Grade by NAAC, Bangalore
A College with Potential for Excellence
An Institutional Member of APQN
Recognized Center for Higher Learning & Research
A Mentor College under Paramarsh Scheme of UGC, New Delhi
A Mentor College under Paris Sparsh Scheme of Maharashtra State

Add on Course for the Session 2022-23
On
Nutritional Biochemistry

Course Introduction

This course explores the biochemical basis of nutrition, focusing on metabolic pathways, nutrient interactions, and their impact on human health. Students will learn about dietary analysis, metabolic disorders, and strategies for nutritional planning.

Course Objectives

- Develop and Understand the nutritional plans
- To study the effects on metabolic processes
- Learn the nutrition and its impact on human health

Registration Date: 18/01/2023

Prof. Atul Bobdey
Coordinator
Dept. of Biotechnology

Prof. Mahendra Dhore
Principal
Science College, Nagpur

Dr. Sapna Baghel
Course- Coordinator
Add on Course



UG Department of Biotechnology

Course Title: Nutritional Biochemistry (Session 2022-2023)

Course Co-ordinator: Ms. Mayuri Bhad

Course Introduction:

This course explores the biochemical basis of nutrition, focusing on metabolic pathways, nutrient interactions, and their impact on human health. Students will learn about dietary analysis, metabolic disorders, and strategies for nutritional planning.

Course Objectives:

- Develop and Understand the nutritional plans
- To study the effects on metabolic processes
- Learn the nutrition and its impact on human health

Instructional Strategies: Theory class, Practical, Video clips, Models etc.

Evaluation Strategies: Oral discussions and Final MCQ examination

Course Outcomes:

1. Understand the role of biochemistry in nutrition and its impact on human health.
2. Analyze dietary patterns and their effects on metabolic processes.
3. Identify metabolic disorders and their biochemical basis.
4. Develop nutritional plans based on biochemical principles.

Duration of course: Ten weeks (30 Hours)



MSBhad

Ms. Mayuri Bhad
Course- Coordinator
Add on Course

UG Department of Biotechnology

Add on Course: Nutritional Biochemistry (Session 2022-23)

Module: The Structure of Syllabus and system of evaluation

Course	Theory Papers and Practical	Total Marks		
		Theory	Internal	Practical
Certificate Course in Nutritional Biochemistry	Theory paper- Nutritional Biochemistry * Theory examination will be of MCQ pattern having 25 questions each with equal marks.	50	10	40
	* Practical examination will be based on performance evaluation in the laboratory and hands-on-training	100		

Ms. Mayuri Bhad

Add on Course Coordinator



Dr. Amitabh Halder

IQAC Coordinator

Internal Quality Assurance Cell
(IQAC)

S. S. E. S. A. Science College
Congress Nagar, Nagpur.

Prof. Mahendra Dhore

Principal

Principal

S. S. E. S. Amravati's
Science College, Nagpur.

UG Department of Biotechnology

Add on Course: Nutritional Biochemistry (Session 2022-23)

Syllabus of Add on Course: Nutritional Biochemistry

Course Units

Unit 1: Introduction to Nutritional Biochemistry

- Understand the basic concepts of nutritional biochemistry.
- Explore the role of macronutrients and micronutrients in metabolism.
- Discuss the importance of vitamins and minerals in biochemical pathways

Unit 2: Dietary Analysis and Nutritional Assessment

- Learn methods for dietary analysis and nutritional assessment.
- Interpret nutritional data to evaluate dietary patterns.
- Analyze nutrient intake and its implications on health.

Unit 3: Metabolic Disorders and Biochemical Basis

- Identify common metabolic disorders related to nutrition.
- Understand the biochemical mechanisms underlying metabolic disorders.
- Explore therapeutic interventions and nutritional strategies for managing metabolic disorders.

Unit 4: Nutritional Planning and Biochemical Approaches

- Develop nutritional plans based on biochemical principles.
- Apply biochemical knowledge to optimize nutrient intake and absorption.
- Explore the role of nutraceuticals and functional foods in promoting health.

Practical Sessions:

1. Dietary Analysis Lab

- Conduct dietary assessments using software tools.
- Analyze nutrient composition and dietary patterns.
- Interpret results to formulate dietary recommendations.

2. Metabolic Disorders Case Studies

- Analyze case studies of metabolic disorders.
- Identify biochemical abnormalities and nutritional interventions.



- Develop management plans based on biochemical pathways.

3. Nutritional Planning Workshop

- Design personalized nutritional plans based on individual needs.
- Incorporate biochemical insights into meal planning.
- Evaluate the effectiveness of nutritional strategies.

4. Nutraceuticals and Functional Foods Demo

- Explore the role of nutraceuticals in health promotion.
- Demonstrate the biochemical actions of functional foods.
- Discuss their potential impact on metabolic pathways.



Ms. Mayuri Bhad
Course- Coordinator
Add on Course

UG Department of Biotechnology

Add on Course: Nutritional Biochemistry (Session 2022-23)

Week-wise teaching plan:

Week	Hrs.	Syllabus
Week 1	1	Understand the basic concepts of nutritional biochemistry.
	1	Explore the role of macronutrients
	1	micronutrients in metabolism.
Week 2	1	Discuss the importance of vitamins and minerals in biochemical pathways
	1	Learn methods for dietary analysis
	1	nutritional assessment.
Week 3	1	Interpret nutritional data
	1	evaluate dietary patterns
	1	Analyze nutrient intake and its implications on health
Week 4	1	Identify common metabolic disorders related to nutrition.
	1	Understand the biochemical mechanisms underlying metabolic disorders
	1	Explore therapeutic interventions
Week 5	1	nutritional strategies for managing metabolic disorders
	2	Develop nutritional plans based on
Week 6	2	biochemical principles
	1	biochemical knowledge
Week 7	2	optimize nutrient intake and absorption.

	2	Explore the role of nutraceuticals
Week 8	2	functional foods
	2	functional foods in promoting health
Week 9	1	Dietary Analysis Lab
	1	Metabolic Disorders Case Studies
Week 10	1	Nutritional Planning Workshop
	1	Nutraceuticals and Functional Foods Demo



MSBhad

Ms. Mayuri Bhad
Course- Coordinator
Add on Course

UG Department of Biotechnology

Add on Course: Nutritional Biochemistry (Session 2022-23)

Add on Course: Nutritional Biochemistry

Time Table

w.e.f. 21/01/2023

Day	Theory
Friday	Ms. Mayuri Bhad (R. No-C6) Theory 4.00 PM - 5.00 PM
Saturday	Ms. Mayuri Bhad (R. no -C6) practical, 4.00 PM - 5.00 PM
	Ms. Mayuri Bhad (R. No- C6) Theory, 4.00 PM - 5.00 PM



MSBhad
Ms. Mayuri Bhad
Course- Coordinator
Add on Course

S2.	YADAV MAMTASANTOSH	P	P	P	P	PA	PP	PP	PA	P	PA	A	P	PP	P											
S3.	ZADE SANIKA CHANDRASHEKHAR	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P										



asbhad
Miss. Mayuri S. Bhad

ATTENDENCE SHEET (2019-20)
S.S.E.S.A's Science College, Congress Nagar, Nagpur
Add on Course: Nutritional Biochemistry (Session -2)

Class: Nutritional Biochemistry
Theory/ Practical:

Month: Jan + Feb + Mar
Name of Lecturer: Ms. Mayuri Bhad

Sr. No	Name of Student	21/01/23	28/01/23	4/02/23	11/02/23	25/02/23	4/03/23	11/03/23	18/03/23																												
1.	AMBOLETRUPTIDNYANESHWAR	P	P	A	P	P	P	P	A																												
2.	ANASANEVAIDEHIGANESH	P	A	P	P	A	P	P	P																												
3.	ATILKARPRANAYDNANESWHAR	P	P	A	P	P	P	A	P																												
4.	BAGDEYASHIKA PRAMOD	P	A	P	P	A	P	P	A																												
5.	BANSODSAMYAKDNANESWATR	P	A	P	P	P	A	P	P																												
6.	BARASKARASHWINI UMESH	P	P	P	A	P	P	P	P																												
7.	BARDEVISHAPRAKASH	P	P	P	P	A	P	P	A																												
8.	BHOYARHEMAD AJAY	P	P	A	P	P	A	P	A																												
9.	BHUSHANKARMRUNALINARESH	P	A	P	P	A	P	A	P																												
10.	BISENKAJALDEBLAL	P	P	P	A	P	A	P	P																												
11.	BOLEACHALANOOP	P	P	A	P	P	A	P	P																												
12.	BONDESHRUTIVINOD	P	A	P	P	P	A	P	P																												
13.	BONDRETITHIKUSUMAKAR	P	A	P	P	P	P	A	P																												
14.	BORKARDUSHANT RUSHI	P	P	A	P	P	A	P	A																												
15.	BRAHMANKARSMRUTISANJAY	P	P	P	A	P	A	P	P																												

16.	CHAUDHARIBHARVIVIKAS	P	P	A	P	P	P	A	P																												
17.	CHAVHANAYUSHDILIP	P	P	P	A	P	A	P	P																												
18.	CHIKHALKARHARSHADAWASUDEV	P	P	A	P	P	P	P	A																												
19.	DALVICHETNAKAILAS	P	P	A	P	A	P	A	P																												
20.	DHOBERIYA SATISH	P	P	P	P	P	P	A	P																												
21.	DHOREPARISAPRAMOD	P	A	P	P	A	P	A	P																												
22.	GHUGALRUSHALIGHANSHYAM	P	A	P	P	P	P	P	A																												
23.	GUJWARKHUSHBUPURANSINGH	P	P	A	P	A	P	P	A																												
24.	HAKIMSHAFINRAFIYODDIN	P	P	A	P	P	P	P	A																												
25.	HIWARKARRAUNAKKRISHNA	P	P	P	P	A	P	P	P																												
26.	INGOLENIKITABANDU	P	P	P	P	A	P	P	P																												
27.	ISHWARKARKANIKAYOGRAJ	P	P	P	P	A	P	P	P																												
28.	JAITWARKAJALRATANLAL	P	P	P	A	P	P	A	P																												
29.	JAMBHULKARKALSHIKASUDES	P	P	A	P	A	P	P	P																												
30.	JANGAMWAR ISHA VINOD	P	A	P	P	P	P	P	P																												
31.	JIWANEGRECY CHANDU	A	P	A	P	P	P	A	P																												
32.	JOSHIARYANSHRIPAD	P	P	A	P	A	P	P	A																												
33.	KADAMDHADMAYURYOGESHWAR	A	P	A	P	A	P	A	P																												
34.	KADHAOMAYURIMURLIDHAR	P	A	P	P	P	A	P	P																												
35.	KALAMKARSHRAVANIMADHUKAR	P	P	P	A	P	P	P	P																												
36.	KALEGAURIATUL	P	P	P	A	P	P	P	P																												
37.	KAMBEARPIVAVINASH	P	P	A	P	P	P	A	P																												

38.	KAMBLE KOMAL SANJAY	P	P	P	A	P	P	P	P										
39.	KAWADE KHUSHI RAJU	P	P	P	P	P	A	P	P										
40.	KELAPURE SAIPRIYARAMCHANDRA	P	P	A	P	P	P	P	P										
41.	KHOTSAMIKSHAGHANSHYAM	P	P	P	P	P	A	P	P										
42.	KOTHALKARAWANTISAHEBRAO	P	P	A	P	P	P	P	P										
43.	KULTHE SNEHA PAWAN	P	P	P	A	P	P	A	P										
44.	KUTHEHEMAKSHIMAHESHKUMAR	P	P	P	P	P	P	P	P										
45.	LOMSOGESAYUKTAPRASHANT	P	P	P	A	P	P	P	P										
46.	MADANMOKSHITAHARISH	P	P	P	A	P	P	P	A										
47.	MALEWARSOUMYASUNIL	P	P	A	P	P	A	P	P										
48.	MANKARMAITREYEKISHOR	P	A	P	P	A	P	P	P										
49.	MARASKOLHENETRAPRADEEPKUMAR	P	P	P	P	P	A	P	P										
50.	MATESHREYASUDHAKAR	P	A	P	P	P	P	A	P										
51.	MESHARAMDIVYANIEKNATH	P	P	P	A	P	P	P	A										
52.	MOREDHANASHREEDDEPAK	P	P	A	P	P	A	P	P										
53.	NAIKWADEAASAWARIPRABHANJAN	P	P	P	A	P	P	A	P										
54.	PANDEY DURGESH GOKUL	P	P	P	A	P	P	A	P										
55.	PANDEYISHIKA AMARNATH	A	P	P	P	P	P	P	P										
56.	PANDEYVISHAKHA SURENDRA	P	P	P	A	P	P	P	P										
57.	PATHADESARTHAKRAJENRA	P	P	P	A	P	P	P	P										
58.	PAULTANUSHREEKUMARESH	A	P	P	P	P	A	P	P										
59.	PAWADEPRADNYAPURUSHOTTAM	P	P	P	P	A	P	P	P										

60.	POUNIKARSAKSHIROSHAN	P	P	P	P	P	A	P	P																													
61.	RAKSHAKYUGANT LAXMAN	P	A	P	P	P	P	A	P																													
62.	RAMTEKE ISHITACHANDRASHEKHAR	P	P	P	P	A	P	P	P																													
63.	RAUT NEHABABURAO	P	P	A	P	P	P	A	P																													
64.	RAUTSALONIGIRISH	P	P	P	P	P	P	P	P																													
65.	RAUT SANIKA DILIP	P	A	P	P	A	P	A	P																													
66.	ROHANKARRIYAMUKESH	P	A	P	A	P	A	P	P																													
67.	SAMARTHTANVIYASHWANT	P	P	A	P	A	P	A	P																													
68.	SHARMAKANIKA GANGA	P	A	P	P	A	P	A	P																													
69.	SHEIKH HUMERAAFROZ NASIR	P	A	P	P	A	P	P	P																													
70.	SONARKARNEHASANJAY	P	P	P	A	P	P	P	A																													
71.	SONKULEROMIVILAS	P	P	P	A	P	P	P	P																													
72.	THAKREMAITHILINARESH	P	P	P	P	P	A	P	P																													
73.	TINKHEDEAISHWARYA SUNIL	P	P	A	P	P	A	P	P																													
74.	TIWARIACHALANUJ	P	A	P	A	P	P	P	A																													
75.	UPADHYEHARSHAL DILIP	P	P	P	A	P	P	A	P																													
76.	VAIKARSAKSHISHANKAR	P	P	P	A	P	P	A	P																													
77.	WAKDENITESHSIDDHARTH	P	P	P	P	P	P	A	P																													
78.	WAKULKARVEDANTIDINESH	A	P	P	P	P	P	P	A																													
79.	WASNIK ASHITNARESH	P	P	P	A	P	P	A	P																													
80.	WASNIK GUNGUN LAXMAN	P	P	A	P	A	P	P	P																													
81.	WASNIK YASH PRAMOD	P	P	P	P	P	P	A	P																													

82.	YADAV MAMTASANTOSH	P.	P	A	P.	P	P	P	P	P																			
83.	ZADE SANIKA CHANDRASHEKHAR	P	P	P	P	P	P	P	P																				



anbhad
 Miss. Mayuri S. Bhad

SHRI SHIVAJI EDUCATION SOCIETY AMRAVATI'S
SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR


UG Department of Biotechnology

EXAMINATION NOTICE

Date: 14/03/2023

All the students enrolled for **Add on Course: Nutritional Biochemistry** for the session 2022-23 are informed that Theory and Practical Exam of the course is scheduled on 20/03/2023. All the appearing students are informed to remain present in Biotechnology Laboratory at 10:30 - 11:30AM AM for Theory Exam and at 12:30PM - 5:30PM for Practical Exam.




Ms. Mayuri Bhad
Course- Coordinator
Add on Course

List of the Students: Add on Course- Nutritional Biochemistry

(Session 2022-2023)

Sr. No.	Name of Student	Signature
1)	AMBOLE TRUPTI DNYANESHWAR	<i>Dnyaneshwar</i>
2)	ANASANE VAIDEHI GANESH	<i>Anasane</i>
3)	ATILKAR PRANAY DNANESWHAR	<i>Pranay</i>
4)	BAGDE YASHIKA PRAMOD	<i>Yashika</i>
5)	BANSOD SAMYAK DNYANESWATR	<i>Samyak</i>
6)	BARASKAR ASHWINI UMESH	<i>Ashwini</i>
7)	BARDE VISHA PRAKASH	<i>Visha</i>
8)	BHOYAR HEMAD AJAY	<i>Hemad</i>
9)	BHUSHANKAR MRUNALI NARESH	<i>Mrunali</i>
10)	BISEN KAJAL DEBLAL	<i>Kajal</i>
11)	BOLE ACHAL ANOOP	<i>Achal</i>
12)	BONDE SHRUTI VINOD	<i>Shruti</i>
13)	BONDRE TITHI KUSUMAKAR	<i>Tithi</i>
14)	BORKAR DUSHANT RUSHI	<i>Dushant</i>
15)	BRAHMANKAR SMRUTI SANJAY	<i>Smruti</i>
16)	CHAUDHARI BHARVI VIKAS	<i>Bharvi</i>
17)	CHAVHAN AYUSH DILIP	<i>Ayush</i>
18)	CHIKHALKAR HARSHADA WASUDEV	<i>Harshada</i>
19)	DALVI CHETNA KAILAS	<i>Chetna</i>
20)	DHOBE RIYA SATISH	<i>Riya</i>
21)	DHORE PARISA PRAMOD	<i>Parisa</i>
22)	GHUGAL RUSHALI GHANSHYAM	<i>Rushali</i>
23)	GUJWAR KHUSHBU PURANSINGH	<i>Khushbu</i>
24)	HAKIM SHAFIN RAFIYODDIN	<i>Shafin</i>
25)	HIWARKAR RAUNAK KRISHNA	<i>Raunak</i>

26)	INGOLE NIKITA BANDU	Nikita
27)	ISHWARKAR KANIKA YOGRAJ	Kanika
28)	JAITWAR KAJAL RATANLAL	Jaitwar
29)	JAMBHULKAR KALSHIKA SUDESH	Kalshika
30)	JANGAMWAR ISHA VINOD	Isha
31)	JIWANE GRECY CHANDU	Grece
32)	JOSHI ARYAN SHRIPAD	Aryan
33)	KADAMDHAD MAYUR YOGESHWAR	ABSENT
34)	KADHAO MAYURI MURLIDHAR	Mayuri
35)	KALAMKAR SHRAVANI MADHUKAR	Shravani
36)	KALE GAURI ATUL	Gauri
37)	KAMBE ARPIT AVINASH	Arpit Kambe
38)	KAMBLE KOMAL SANJAY	Kambl
39)	KAWADE KHUSHI RAJU	Khushi
40)	KELAPURE SAI PRIYA RAMCHANDRA	Sai Priya
41)	KHOT SAMIKSHA GHANSHYAM	Samiksha
42)	KOTHALKAR AWANTI SAHEBRAO	Awanti
43)	KULTHE SNEHA PAWAN	Sneha
44)	KUTHE HEMAKSHI MAHESHKUMAR	Hemakshi
45)	LOMSOGE SAYUKTA PRASHANT	Sayukta
46)	MADAN MOKSHITA HARISH	Mokshita
47)	MALEWAR SOUMYA SUNIL	Soumya
48)	MANKAR MAITREYEE KISHOR	Maitreyee
49)	MARASKOLHE NETRA PRADEEPKUMAR	Netra
50)	MATE SHREYA SUDHAKAR	Shreya
51)	MESHARAM DIVYANI EKNATH	Divyani
52)	MORE DHANASHREE DEEPAK	Dhanashree
53)	NAIKWADE AASAWARI PRABHANJAN	A Naikwade
54)	PANDEY DURGESH GOKUL	Durgesh
55)	PANDEY ISHIKA AMARNATH	Ishika
56)	PANDEY VISHAKHA SURENDRA	Vishakha

57)	PATHADE SARTHAK RAJENRA	Sarthak
58)	PAUL TANUSHREE KUMARESH	Tanushree
59)	PAWADE PRADNYA PURUSHOTTAM	Pradnya
60)	POUNIKAR SAKSHI ROSHAN	Sakshi
61)	RAKSHAK YUGANT LAXMAN	Yugant
62)	RAMTEKE ISHITA CHANDRASHEKHAR	Ishita
63)	RAUT NEHA BABURAO	Neha
64)	RAUT SALONI GIRISH	Saloni
65)	RAUT SANIKA DILIP	Raut
66)	ROHANKAR RIYA MUKESH	ABSENT
67)	SAMARTH TANVI YASHWANT	Tanvi
68)	SHARMA KANIKA GANGA	Kanika
69)	SHEIKH HUMERA AFROZ NASIR	Humera
70)	SONARKAR NEHA SANJAY	Sonarkar
71)	SONKULE ROMI VILAS	Romi
72)	THAKRE MAITHILI NARESH	Maithili
73)	TINKHEDE AISHWARYA SUNIL	Aishwarya
74)	TIWARI ACHAL ANUJ	Achal
75)	UPADHYE HARSHAL DILIP	Upadhye
76)	VAIKAR SAKSHI SHANKAR	Sakshi
77)	WAKDE NITESH SIDDHARTH	Nitesh
78)	WAKULKAR VEDANTI DINESH	Vedanti
79)	WASNIK ASHIT NARESH	Ashit
80)	WASNIK GUNGUN LAXMAN	Gungun
81)	WASNIK YASH PRAMOD	Yash
82)	YADAV MAMTA SANTOSH	Mamta
83)	ZADE SANIKA CHANDRASHEKHAR	Zade



ABhad
Mayuri S. Bhad.

UG Department of Biotechnology

Add on Course: Nutritional Biochemistry (Session 2022-23)

Theory Exam Multiple-Choice Questions (MCQs) Pattern

1. Which macronutrient is the primary source of energy for the body?
 - A) Carbohydrates
 - B) Proteins
 - C) Fats
 - D) Vitamins
 - **Answer: A) Carbohydrates**
2. What is the recommended daily intake of fiber for adults?
 - A) 5 grams
 - B) 10 grams
 - C) 25 grams
 - D) 50 grams
 - **Answer: C) 25 grams**
3. Which vitamin is essential for collagen synthesis?
 - A) Vitamin A
 - B) Vitamin C
 - C) Vitamin D
 - D) Vitamin K
 - **Answer: B) Vitamin C**
4. What metabolic disorder is characterized by insulin resistance and high blood sugar levels?
 - A) Type 1 Diabetes
 - B) Type 2 Diabetes
 - C) Hypothyroidism
 - D) Hyperthyroidism
 - **Answer: B) Type 2 Diabetes**
5. Which nutrient deficiency can lead to neural tube defects in newborns?
 - A) Folic Acid
 - B) Iron
 - C) Calcium
 - D) Vitamin B12
 - **Answer: A) Folic Acid**
6. Which of the following is a micronutrient?
 - a) Carbohydrate
 - b) Protein
 - c) Vitamin C
 - d) Fat**Answer: c) Vitamin C**
7. Glycolysis is the metabolic pathway for the breakdown of which nutrient?
 - a) Proteins

- b) Fats
- c) Carbohydrates
- d) Minerals

Answer: c) Carbohydrates

8. What is the recommended daily intake of water for an adult?

- a) 1 liter
- b) 2 liters
- c) 3 liters
- d) 4 liters

Answer: b) 2 liters

9. Which nutrient deficiency can lead to anemia?

- a) Vitamin C
- b) Iron
- c) Calcium
- d) Vitamin D

Answer: b) Iron

10. Which metabolic disorder is characterized by high blood sugar levels?

- a) Hypertension
- b) Diabetes mellitus
- c) Hyperthyroidism
- d) Arthritis

Answer: b) Diabetes mellitus

11. What is the role of proteins in the body?

- a) Energy storage
- b) Hormone production
- c) Structural component
- d) Vitamin synthesis

Answer: c) Structural component

12. Which nutrient is essential for bone health?

- a) Vitamin C
- b) Calcium
- c) Vitamin A
- d) Vitamin B12

Answer: b) Calcium

13. What is the function of antioxidants in the body?

- a) Promote inflammation
- b) Neutralize free radicals
- c) Increase oxidative stress
- d) Reduce cell damage

Answer: b) Neutralize free radicals

14. Which metabolic pathway produces ATP aerobically?

- a) Glycolysis



- b) Citric Acid Cycle (TCA cycle)
 - c) Electron Transport Chain
 - d) Anaerobic Respiration
- Answer: c) Electron Transport Chain**

15. How does fiber benefit digestive health?

- a) Increases cholesterol levels
- b) Reduces constipation
- c) Promotes fat absorption
- d) Lowers blood sugar levels

Answer: b) Reduces constipation

16) The energy needed for standing quietly is nearly

- a) 25 cal/hr
- b) 30 cal/hr
- c) 60 cal/hr
- d) 75 cal/hr

Answer: B

17) The melting point of the lipids is

- a) Lower
- b) Higher
- c) Normal
- d) Room temperature

Answer: B

18) The glycaemic index of the honey is

- a) 90-95
- b) 80-90
- c) 60-70
- d) 50-60

Answer: B

19) The recommended dietary allowance of fats is

- a) 400 g
- b) 70 g
- c) 56 g
- d) 60 mg

Answer: B

20) The average intake of fibres on daily bases is

- a) 20 g fiber
- b) 30 g fibers
- c) 40 g fibers
- d) 50 g fibers

Answer: B

21) Which of the following is not a macronutrient?

- a) Proteins
- b) Carbohydrates
- c) Fats
- d) Vitamins

Answer: D

22) Which of the following is a monosaccharide?

- a) Lactose
- b) Glucose
- c) Maltose
- d) Sucrose

Answer:b

23). Which of the following vitamins is fat-soluble?

- a) Vitamin A
- b) Vitamin B6
- c) Vitamin B12
- d) Vitamin C

Answer:A

24)Water soluble vitamins include:

- a) Carotenoids
- b) Ascorbic acid
- c) Vitamin D
- d) More than one of the above
- e) None of the above

Answer:B

25)Energy giving food' is :

- a) Food containing protein
- b) Food containing minerals
- c) Food containing carbohydrates
- d) More than one of the above
- e) None of the above

Answer:C



MSBhad

Ms. Mayuri Bhad
Course- Coordinator
Add on Course

UG Department of Biotechnology

Add on Course: Nutritional Biochemistry (Session 2022-23)

Practical Exam Question Paper:

Subject : Nutritional Biochemistry
Center : S.S.E.S.A's Science College, Nagpur
Time : 5hrs per day
Dates : 20/03/2023

Max. Marks: 40

Q.1. Metabolic Disorders Case Studies	10
Q.2 Dietary Lab Analysis	10
Q.3. Viva-Voce	10
Q.4. Practical Record	10

Total Marks 40



Ms. Mayuri Bhad
Ms. Mayuri Bhad
Course- Coordinator
Add on Course

UG Department of Biotechnology
Add-on Course : Nutritional Biochemistry (Session 2022-23)
OMR Answer Sheet



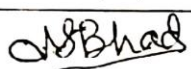

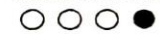
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 Congress Nagar, Nagpur-12 (M.S.), India



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 Mentor College under 'PARAMARSHI Scheme', UGC, New Delhi

U.G. DEPARTMENT OF BIOTECHNOLOGY

Add-on Course
Course Exam Name: Nutritional Biochemistry

Name of Student: <u>Supriya D. Ambale</u>		INSTRUCTIONS FOR FILLING THE SHEET 1 This sheet should not be folded or crushed 2 Use only blue/ black ball point pen to fill the circles 3 Use of pencil is strictly prohibited 4 Circles should be darkened completely and properly 5 Cutting and erasing on this sheet is not allowed 6 Do not use any stray marks on the sheet 7 Do not use marker or white fluid to hide the mark	
Roll No.: [] [] [] []	Session: 2022-23		
Test Date: 15/03/2023	Max. Marks: 50		
 Invigilator Signature	Obtained Marks:	[50]	WRONG METHODS CORRECT METHOD  

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D																														
1 ● ○ ○ ○	11 ○ ○ ● ○	21 ○ ○ ○ ●	31 ○ ○ ○ ○	41 ○ ○ ○ ○	2 ○ ○ ● ○	12 ○ ● ○ ○	22 ○ ● ○ ○	32 ○ ○ ○ ○	42 ○ ○ ○ ○	3 ○ ○ ● ○	13 ○ ● ○ ○	23 ● ○ ○ ○	33 ○ ○ ○ ○	43 ○ ○ ○ ○	4 ○ ● ○ ○	14 ○ ○ ● ○	24 ○ ● ○ ○	34 ○ ○ ○ ○	44 ○ ○ ○ ○	5 ● ○ ○ ○	15 ○ ● ○ ○	25 ○ ○ ● ○	35 ○ ○ ○ ○	45 ○ ○ ○ ○	6 ○ ○ ● ○	16 ○ ● ○ ○	26 ○ ○ ○ ○	36 ○ ○ ○ ○	46 ○ ○ ○ ○	7 ○ ○ ● ○	17 ○ ● ○ ○	27 ○ ○ ○ ○	37 ○ ○ ○ ○	47 ○ ○ ○ ○	8 ○ ● ○ ○	18 ○ ● ○ ○	28 ○ ○ ○ ○	38 ○ ○ ○ ○	48 ○ ○ ○ ○	9 ○ ● ○ ○	19 ○ ● ○ ○	29 ○ ○ ○ ○	39 ○ ○ ○ ○	49 ○ ○ ○ ○	10 ○ ● ○ ○	20 ○ ● ○ ○	30 ○ ○ ○ ○	40 ○ ○ ○ ○	50 ○ ○ ○ ○
2 ○ ○ ● ○	12 ○ ● ○ ○	22 ○ ● ○ ○	32 ○ ○ ○ ○	42 ○ ○ ○ ○	3 ○ ○ ● ○	13 ○ ● ○ ○	23 ● ○ ○ ○	33 ○ ○ ○ ○	43 ○ ○ ○ ○	4 ○ ● ○ ○	14 ○ ○ ● ○	24 ○ ● ○ ○	34 ○ ○ ○ ○	44 ○ ○ ○ ○	5 ● ○ ○ ○	15 ○ ● ○ ○	25 ○ ○ ● ○	35 ○ ○ ○ ○	45 ○ ○ ○ ○	6 ○ ○ ● ○	16 ○ ● ○ ○	26 ○ ○ ○ ○	36 ○ ○ ○ ○	46 ○ ○ ○ ○	7 ○ ○ ● ○	17 ○ ● ○ ○	27 ○ ○ ○ ○	37 ○ ○ ○ ○	47 ○ ○ ○ ○	8 ○ ● ○ ○	18 ○ ● ○ ○	28 ○ ○ ○ ○	38 ○ ○ ○ ○	48 ○ ○ ○ ○	9 ○ ● ○ ○	19 ○ ● ○ ○	29 ○ ○ ○ ○	39 ○ ○ ○ ○	49 ○ ○ ○ ○	10 ○ ● ○ ○	20 ○ ● ○ ○	30 ○ ○ ○ ○	40 ○ ○ ○ ○	50 ○ ○ ○ ○					
3 ○ ○ ● ○	13 ○ ● ○ ○	23 ● ○ ○ ○	33 ○ ○ ○ ○	43 ○ ○ ○ ○	4 ○ ● ○ ○	14 ○ ○ ● ○	24 ○ ● ○ ○	34 ○ ○ ○ ○	44 ○ ○ ○ ○	5 ● ○ ○ ○	15 ○ ● ○ ○	25 ○ ○ ● ○	35 ○ ○ ○ ○	45 ○ ○ ○ ○	6 ○ ○ ● ○	16 ○ ● ○ ○	26 ○ ○ ○ ○	36 ○ ○ ○ ○	46 ○ ○ ○ ○	7 ○ ○ ● ○	17 ○ ● ○ ○	27 ○ ○ ○ ○	37 ○ ○ ○ ○	47 ○ ○ ○ ○	8 ○ ● ○ ○	18 ○ ● ○ ○	28 ○ ○ ○ ○	38 ○ ○ ○ ○	48 ○ ○ ○ ○	9 ○ ● ○ ○	19 ○ ● ○ ○	29 ○ ○ ○ ○	39 ○ ○ ○ ○	49 ○ ○ ○ ○	10 ○ ● ○ ○	20 ○ ● ○ ○	30 ○ ○ ○ ○	40 ○ ○ ○ ○	50 ○ ○ ○ ○										
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UG Department of Biotechnology
Mark List: Add-on Course- Nutritional Biochemistry
(Session 2022-23)

Sr. No.	Name of Student	Marks obtained out of 50 (Theory)	Marks obtained out of 40 (Practical)	Marks obtained out of 10 (Internal)	Total Marks 100	Grade
1)	AMBOLETRUPTIDNYANESHWAR	50	34	10	94	O
2)	ANASANEVAIDEHIGANESH	48	35	10	93	O
3)	ATILKARPRANAYDNANESWHAR	48	36	10	94	O
4)	BAGDEYASHIKA PRAMOD	42	35	10	87	A+
5)	BANSODSAMYAKDNYANESWATR	50	38	10	98	O
6)	BARASKARASHWINI UMESH	50	34	10	94	O
7)	BARDEVISHAPRAKASH	42	35	10	87	A+
8)	BHOYARHEMAD AJAY	44	35	10	89	A+
9)	BHUSHANKARMRUNALINARESH	42	34	10	86	A+
10)	BISENKAJALDEBLAL	50	38	10	98	O
11)	BOLEACHALANOOP	42	35	10	87	A+
12)	BONDESHRUTIVINOD	48	36	10	94	O
13)	BONDRETITHIKUSUMAKAR	44	35	10	89	A+

14)	BORKARDUSHANT RUSHI	50	34	10	94	0
15)	BRAHMANKARSMRUTISANJAY	49	34	10	93	0
16)	CHAUDHARIBHARVIVIKAS	42	35	10	87	A+
17)	CHAVHANAYUSHDILIP	48	36	10	94	0
18)	CHIKHALKARHARSHADAWASUDEV	44	35	10	89	A+
19)	DALVICHETNAKAILAS	50	34	10	94	0
20)	DHOBERIYA SATISH	49	34	10	93	0
21)	DHOREPARISAPRAMOD	50	35	10	95	0
22)	GHUGALRUSHALIGHANSHYAM	50	38	10	98	0
23)	GUJWARKHUSHBUPURANSINGH	49	34	10	93	0
24)	HAKIMSHAFINRAFIYODDIN	50	34	10	94	0
25)	HIWARKARRAUNAKKRISHNA	48	35	10	93	0
26)	INGOLENIKITABANDU	48	36	10	94	0
27)	ISHWARKARKANIKAYOGRAJ	42	35	10	87	A+
28)	JAITWARKAJALRATANLAL	50	38	10	98	0
29)	JAMBHULKARKALSHIKASUDES	50	34	10	94	0
30)	JANGAMWAR ISHA VINOD	42	35	10	87	A+
31)	JIWANEGRECY CHANDU	44	35	10	89	A+

32)	JOSHIARYANSHRIPAD	42	34	10	86	A+
33)	KADAMDHADMAYURYOGESHWA R	50	38	10	98	0
34)	KADHAOMAYURIMURLIDHAR	AB	AB	AB	AB	AB
35)	KALAMKARSHRAVANIMADHUKAR	50	38	10	98	0
36)	KALEGAURIATUL	49	34	10	93	0
37)	KAMBEARPIAVINASH	50	34	10	94	0
38)	KAMBLE KOMAL SANJAY	48	35	10	93	0
39)	KAWADE KHUSHI RAJU	48	36	10	94	0
40)	KELAPURE SAIPRIYARAMCHANDRA	42	35	10	87	A+
41)	KHOTSAMIKSHAGHANSHYAM	50	38	10	98	0
42)	KOTHALKARAWANTISAHEBRAO	50	34	10	94	0
43)	KULTHE SNEHA PAWAN	42	35	10	87	A+
44)	KUTHEHEMAKSHIMAHESHKUMA R	44	35	10	89	A+
45)	LOMSOGESAYUKTAPRASHANT	42	34	10	86	A+
46)	MADANMOKSHITAHARISH	50	38	10	98	0
47)	MALEWARSOUMYASUNIL	42	35	10	87	A+
48)	MANKARMAITREYEEKISHOR	48	36	10	94	0
49)	MARASKOLHENETRAPRADEEPKU MAR	44	35	10	89	A+

50)	MATESHREYASUDHAKAR	50	34	10	94	0
51)	MESHARAMDIVYANIEKNATH	49	34	10	93	0
52)	MOREDHANASHREEDEEPAK	50	34	10	94	0
53)	NAIKWADEAASAWARIPRABHANJAN	48	35	10	93	0
54)	PANDEY DURGESH GOKUL	48	36	10	94	0
55)	PANDEYISHIKA AMARNATH	42	35	10	87	A+
56)	PANDEYVISHAKHA SURENDRA	50	38	10	98	0
57)	PATHADESARTHAKRAJENRA	50	34	10	94	0
58)	PAULTANUSHREEKUMARESH	42	35	10	87	A+
59)	PAWADEPRADNYAPURUSHOTTAM	44	35	10	89	A+
60)	POUNIKARSAKSHIROSHAN	42	34	10	86	A+
61)	RAKSHAKYUGANT LAXMAN	50	38	10	98	0
62)	RAMTEKEISHITACHANDRASHEKHAR	49	34	10	93	0
63)	RAUT NEHABABURAO	50	35	10	95	0
64)	RAUTSALONIGIRISH	50	38	10	98	0
65)	RAUT SANIKA DILIP	42	35	10	87	A+
66)	ROHANKARRIYAMUKESH	AB	AB	AB	AB	AB
67)	SAMARTHTANVIYASHWANT	44	35	10	89	A+

68)	SHARMAKANIKA GANGA	50	34	10	94	0
69)	SHEIKH HUMERAAFROZ NASIR	49	34	10	93	0
70)	SONARKARNEHASANJAY	42	35	10	87	A+
71)	SONKULEROMIVILAS	48	36	10	94	0
72)	THAKREMAITHILINARESH	44	35	10	89	A+
73)	TINKHEDEAISHWARYA SUNIL	50	34	10	94	0
74)	TIWARIACHALANUJ	50	35	10	95	0
75)	UPADHYEHARSHAL DILIP	50	38	10	98	0
76)	VAIKARSAKSHISHANKAR	49	34	10	93	0
77)	WAKDENITESHSIDDHARTH	50	34	10	94	0
78)	WAKULKARVEDANTIDINESH	48	35	10	93	0
79)	WASNIK ASHITNARESH	48	36	10	94	0
80)	WASNIK GUNGUN LAXMAN	42	35	10	87	A+
81)	WASNIK YASH PRAMOD	50	38	10	98	0
82)	YADAV MAMTASANTOSH	50	34	10	94	0
83)	ZADESANIKACHANDRASHEKHAR	42	35	10	87	A+



Ms. Bhad
Ms. Mayuri Bhad
 Course- Coordinator
 Add on Course



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NAGPUR**



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CERTIFICATE

Mr./Ku. Ambole Trupti Dnyaneshwar is awarded with certificate on successful completion of the course entitled, Certificate course in "Nutritional Biochemistry"

Session 2022-23 under Add-on course conducted for 30 hours from 06/01/2023 to 11/03/2023 by Department of Biotechnology, SSES's, Science College, congress Nagar, Nagpur 440012.

He/She has passed the Examination with '0' Grade.

Ms. Mayuri Bhad

Coordinator, Department of Biotechnology



Prof. M. P. Dhore

Principal, Science College, Nagpur



UG Department of Biotechnology

Add on Course: Nutritional Biochemistry (Session 2022-23)

Feedback form

Thank you for participating in our Add on course Nutritional Biochemistry. Your feedback is crucial in helping us improve the course and enhance your learning experience. Please take a few moments to complete this feedback form.

Que. 1 How would you rate the overall quality of the Add on Course –Nutritional Biochemistry

- a) Excellent
- b) Good
- c) Average

Que. 2 How well did the Add on Course – Nutritional Biochemistry meet your expectations?

- a) Exceeded expectations
- b) Met expectations
- c) Below expectations

Que. 3 How effective were the course instructors in delivering the Add on Course – Nutritional Biochemistry

- a) Very effective
- b) Effective
- c) Ineffective

Que. 4 How likely are you to recommend the Add on Course – Nutritional Biochemistry to others?

- a) Very Likely
- b) Likely
- c) Unlikely

Que. 5 How satisfied are you with the practical sessions of the Add on Course – Nutritional Biochemistry

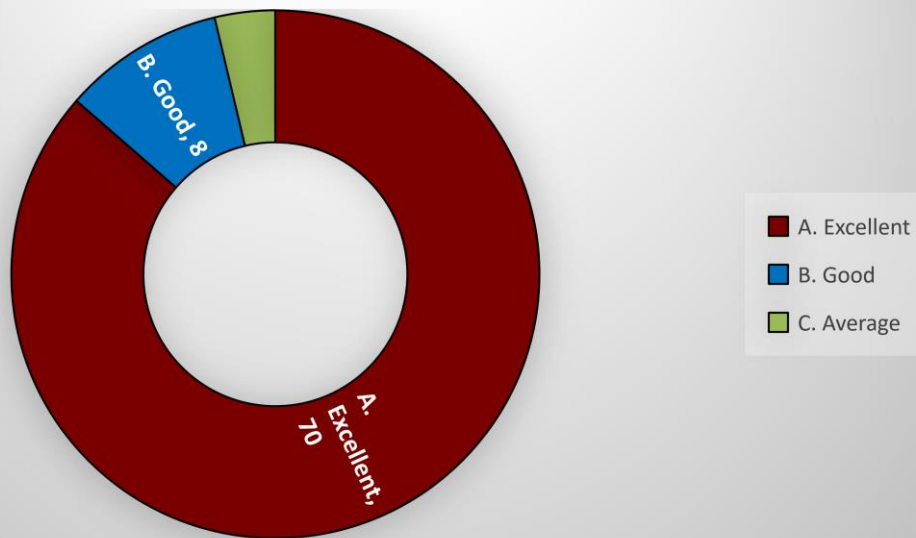
- a) Very Satisfied
- b) Satisfied
- c) Dissatisfied

**UG Department of Biotechnology Add
on Course: Nutritional Biochemistry**

**(Session 2022-23)
Feedback Response**

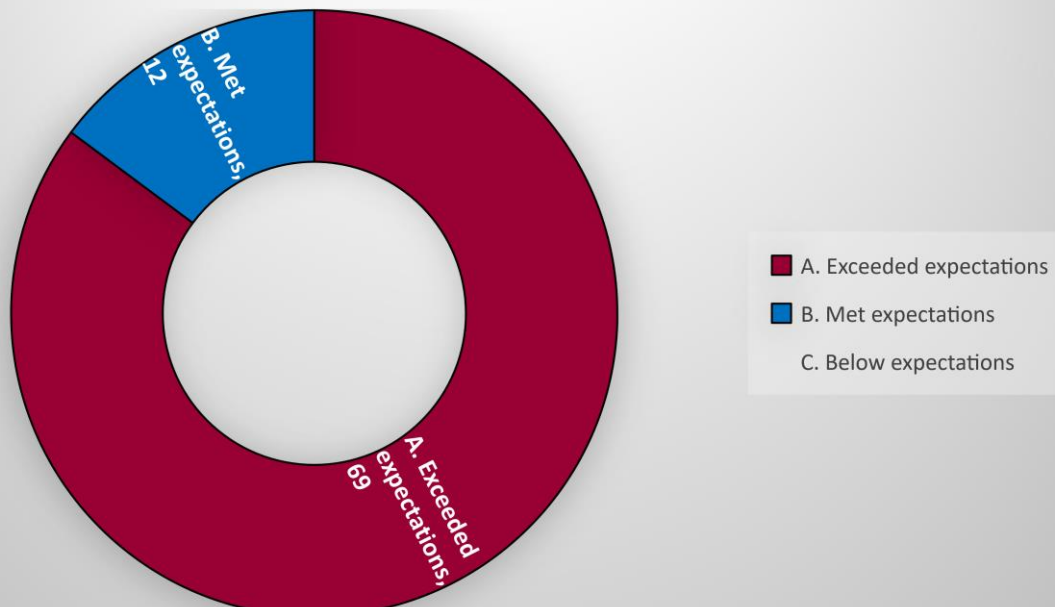
81 responses

Que. 1 How would you rate the overall quality of the Add on course- Nutritional Biochemistry ?



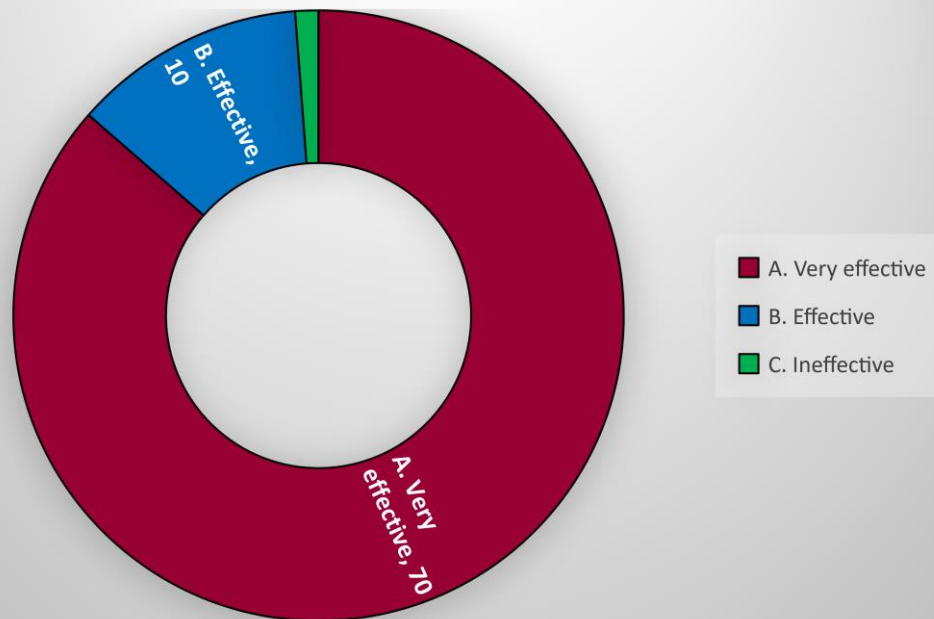
81 responses

Que. 2 How well did the Add on course- Nutritional Biochemistry meet your expectation ?



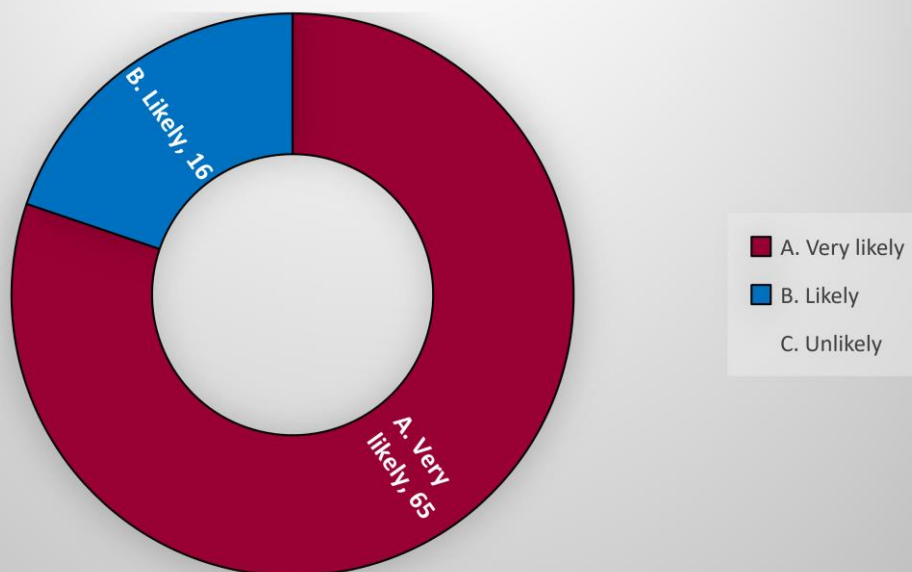
81 responses

Que. 3 How effective were the course instructors in delivering the Add on course- Nutritional Biochemistry?



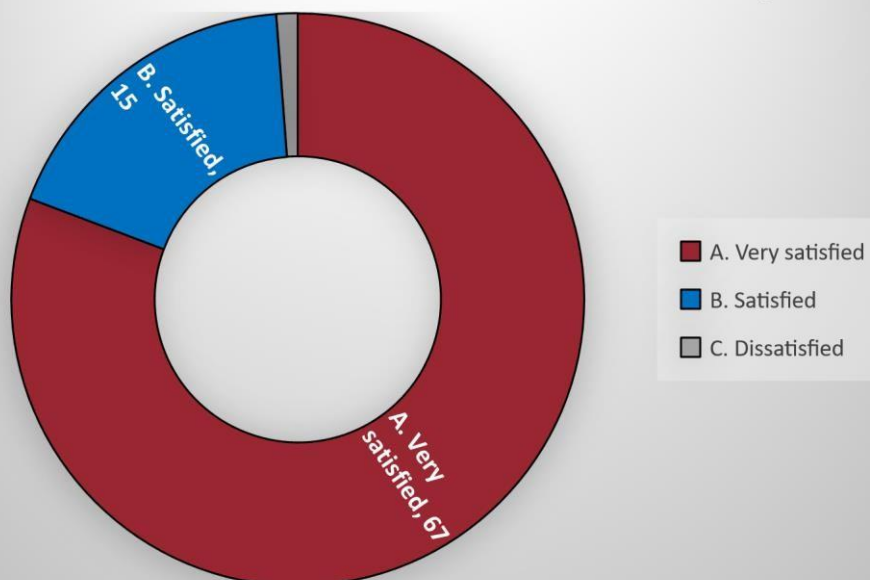
81 responses

Que. 4 How likely are you to recommend the Add on Course - Nutritional Biochemistry others?



81 responses

Que. 5. How satisfied are you with the practical sessions of the Certificate Course Nutritional Biochemistry



Ms. Mayuri Bhad
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Add on Course

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