

CERTIFICATE COURSE IN HEALTH CARE (BIOMEDICAL SCIENCE)

Crisis Management in
HEALTHCARE: Responding
to Emergencies and
Disasters



**Free Certificate course for
College Students**

Duration – 30 Hours (10 Weeks)

**Process of Registration- Early
birds will be admitted**

Course Objectives:

- 1) To understand basic healthcare.
- 2) To understand various healthcare services.
- 3) To understand interrelationship between public health, global health and Environmental health.
- 4) To understand types of healthcare and maintenance of health.
- 5) To acquire knowledge of health-related sectors.
- 6) To understand self-care strategies in India.
- 7) To understand occupational safety, health information and techniques.



**Department of Zoology
SSES Amt's Science College, Congress
Nagar, Nagpur**

** A Healthcare (Biomedical Science) course typically focuses on the Scientific and technical aspects of health and disease, providing students with a comprehensive understanding of the biological and physiological principles underlying medical practice. The Healthcare (Biomedical Science) course integrates foundational knowledge in Life Science, chemistry, and physics with specialized medical and clinical applications. It prepares students for careers in healthcare, research, and related fields. Health of the people is important to aware the society about it. It is characterized as anatomic, physiologic, and psychological integrity to perform work.*

Course schedule : 16/08/2022- 22/10/2022

Last date of registration: 1/08/2022

Course coordinator: Dr. R. A. Patil Bhagat

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

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

Respected Sir,

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

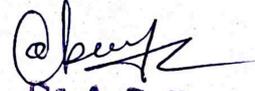
The details of the courses are submitted here with.

Hence please permit to run the same and oblige me.

Thanking you

2/07/2022

Yours sincerely



Dr. A. D. Bobdey
Professor & Head
Department of Zoology,
Shri Shivaji Science College,
Congress Nagar, Nagpur-12.

Permitted
M. Phare

SSES Amravati's Science College, Congress Nagar, Nagpur-12

DEPARTMENT OF ZOOLOGY

COURSE MODULE AND SYLLABUS

Course Title: Certificate Course in Health Care (Biomedical Science)

Course Coordinator : Dr. Mrs. Rupali A. Patil Bhagat

Course description:

A Healthcare (Biomedical Science) course typically focuses on the scientific and technical aspects of health and disease, providing students with a comprehensive understanding of the biological and physiological principles underlying medical practice. The Healthcare (Biomedical Science) course integrates foundational knowledge in Life Science, chemistry, and physics with specialized medical and clinical applications. It prepares students for careers in healthcare, research, and related fields. Health of the people is important to aware the society about it. It is characterized as anatomic, physiologic, and psychological integrity to perform work. Health Care System (HCS) infrastructure includes services, facilities, institutions/establishments and organizations. They provide individuals, families and communities with primitive, protective, preventive, diagnostic, curative and rehabilitative measures and services. There are different HCSs all over the world, which are strongly influenced by nation's history, traditions, socio-cultural, economic, political and other factors. In the first decade of the 21st century, the conceptualization of health as an ability opened the door for self-assessments to become the main indicators to judge the performance of efforts aimed at improving human health and lifestyle. This Certificate course on healthcare (Biomedical Science), is towards making students aware about introductory requirement to understand and to create the opportunity for every person to feel healthy, even in the presence of multiple chronic diseases, or a terminal condition and for the re-examination of determinants of health, away from the traditional approach that focuses on the reduction of the prevalence of diseases. Applied health sciences endeavor to better understand and improve human health through applications in areas. This course will cover building block contains to understand healthcare and its integral relationship with zoology.

Course Objectives:

- 1) To understand basic healthcare.
- 2) To understand various healthcare services.
- 3) To understand interrelationship between public health, global health and Environmental health.
- 4) To understand types of healthcare and maintenance of health.
- 5) To acquire knowledge of health related sectors.
- 6) To understand self-care strategies in India.
- 7) To understand occupational safety, health information and techniques.

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

Evaluation Strategies: Oral discussions and Final MCQ examination.

SYLLABUS

Certificate course (10 weeks)
(Health Care (Biomedical Science))

Theory-

UNIT- I

Study of the human body's structure and function.

Healthcare

Biomedical Science relation to other sciences

History

Healthcare services

Public, global, environmental health

Determinants

Potential issues

UNIT – II

WHO

Social determinants of health

Risk factors

Mental health

Healthy diet and human nutrition

Exercise

Role of Science –Health science and health care

UNIT – III

Role of public health in development of nation

Health information

Health techniques

Occupational

Occupational safety and health

Self-care strategies

Practicals-

- a) Primary aids during the site of disaster/accident/other health emergencies
- b) Study of First Aid Medicines
- c) External examinations of patient
- d) Study of blood sugar, Hemoglobin and Blood pressure
- e) Study of specialty in local hospitals

Distribution of marks: -

- | | |
|------------------------------------|----|
| 1. Primary aids - | 05 |
| 2. Diseases and primary medicine - | 05 |
| 3. Estimation of Blood pressure - | 05 |
| 3. Estimation of Blood Sugar - | 05 |

Course outline: Course Outlines: (Relevance)

- 1) Healthcare and its relation to other sciences.
- 2) Role and organization of health care systems.
- 3) Distinguish national health care systems based on sources of funding.
- 4) Scope of activities of health organizations on different levels.
- 5) Classify health service organizations depend on various criteria.
- 6) Three generations of reforms in health system.
- 7) Main goals of national health systems.
- 8) Main objectives of national health systems
- 9) Common problems of health care system.
- 10) New challenges of health care system
- 11) Care in Hospitals
- 12) Public health care services improve lifestyle.

Course Outcomes (COs):

- 1) To increase understanding various healthcare services and systems organization.
- 2) To understand interrelationship between public health, global health and Environmental health.
- 3) Be able to describe scope of activities of health organizations depend on different criteria
- 4) To identify main goals and objectives of national health systems.
- 5) To describe three generations of reforms in health systems.
- 6) To understand health services of India and to develop critical thinking on how public health care services improve lifestyle.
- 7) Apply scientific principles to understand and address health-related issues.
- 8) This course is ideal for students interested in the intersection of science and healthcare, providing a solid foundation for various career paths in the medical and health sciences fields.

Duration of course: Ten weeks (30 Hours)

The Structure of Syllabus and system of evaluation -

Course	Theory Papers and Practical	Total Marks	
		Theory	Practical
Certificate Course in Health Care	Theory paper- Health Care (Biomedical Science) * Theory examination will be of MCQ pattern having 60 or 80 questions each with equal marks.	80	20
	* Practical examination will be based on performance evaluation in the laboratory	100	

(Signature)
Principal
Science College
Congress Nagar
Nagpur

(Signature)
Internal Quality Assurance Cell
(IQAC)
S. S. E. S. A. Science College
Congress Nagar, Nagpur.

(Signature)
Dr. R. A. Patil Bhagat
Coordinator
Health care (Biomedical
Science)

Week-wise teaching plan:

Week	Hrs.	Syllabus
Week 1	1	Study of the human body's structure and function & Healthcare (practical)
	1	Importance of Primary Health care
	1	Biomedical Science relation to other sciences
Week 2	1	History
	2	Healthcare services
Week 3	1	Public, global, environmental health
	2	Determinants
Week 4	1	Potential issues
	1	WHO
Week 5	2	Social determinants of health
	1	Risk factor
Week 6	2	Mental health
	1	Healthy diet and human nutrition
Week 7	2	Exercise (Practical)
	1	Role of Science –Health science and health care
Week 8	2	Role of public health
	1	Health information
Week 9	2	Laboratory techniques (Practical)
	1	Occupational
Week 10	1	Occupational safety and health
	2	Self-care strategies

SSES AMT'S SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR-12

Certificate Course in Health Care (Biomedical Science)

Time Table

Day	Theory
Friday	RAP (B13) Theory 4.00 PM – 5.00 PM
Saturday	RAP (ZL) practical, 4.00 PM – 5.00 PM
	SVG (B13) Theory, 5.00 PM – 6.00 PM



Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
DEPARTMENT OF ZOOLOGY
Certificate course in Healthcare
22-23

Sr. No	Roll No		Name of Student
1	Z101	Ku	AYYAGARI RENUKA SUDHAKAR
2	Z102	Ku	BAIS MANSA KISHORSINGH
3	Z103	Ku	BANTE SHRADDHA GUDDU
4	Z104	Ku	BEHAR KHUSHI RAJU
5	Z105	Ku	BHAISARE CHETANA DINESH
6	Z106	Ku	BHAISARE VISHWANI VILAS
7	Z107	Ku	BHIMTE SHRIYA SURENDRA
8	Z108	Ku	BHINGARE VAIDEHI HEMANT
9	Z109		BHUSARI ANJALI SHAMRAO
10	Z110	Ku	BHUSARI PRANMAYI RAJESH
11	Z111	Ku	BIRE JAHNAVI MILIND
12	Z112	Ku	BODLE PRATHMESH VIJAYGIR
13	Z113	Ku	CHAKRAPANI RUCHITA SANJAY
14	Z114	Ku	CHAKRE AKANSHA SANJEEV
15	Z115	Ku	CHAURAGADE PRANAY RAJESH
16	Z116	Ku	CHEWLANI ISHITA MAHESH
17	Z117	Ku	CHOUDHARY VAISHNAVI CHANDRAKANT
18	Z118	Ku	DAMEDHAR APURVA ANILRAO
19	Z119	Ku	DEVIKAR DIVYA ARUN
20	Z120	Ku	DHAPODKAR GEETANSH SURESH
21	Z121	Ku	DIBINA DINAKARAN
22	Z122	Ku	DIXIT SHRISHTI ARVIND
23	Z123	Ku	GANVIR ANUSHKA ANIL
24	Z124	Ku	GAWANDE MAYURI CHANDRAKANT
25	Z125	Ku	GHADGE CHETNA ARVIND
26	Z126	Ku	GHODMARE SANSKRUTI SURESH
27	Z127	Ku	GOKHALE RENUKA PARAG
28	Z128	Ku	GOSWAMI DIVYA VIKAS
29	Z129	Ku	GOSWAMI LAXMI KISHOR
30	Z130	Ku	GUPTA SHREYA RAVINDRA
31	Z131	Ku	HATWAR HRUSHIKA SURESH

Registration
List

32	Z132	Ku	JAHAGIRDHAR TARINI SACHIN
33	Z133	Ku	JAMGADE KASHISH CHANDAN
34	Z134	Ku	JICHKAR FALGUNI YOGESHWAR
35	Z135		JICHKAR SHARVARI VITTHALRAO
36	Z136	Ku	JOSHI SAE MAHESH
37	Z137	Ku	KAKDE AASHLESHA NARESH
38	Z138	Ku	KALE MRUNALI CHANDRAJEET
39	Z139	Ku	KALKOTWAR NIMISHA RAJESH
40	Z140		KARWADE AWAANI PRASHANT
41	Z141	Ku	KITUKALE RUTUJA VIJAY
42	Z142	Ku	KOCHE MAYURI WALMIK
43	Z143	Ku	KOLHE HARSHINI ARVIND
44	Z144	Ku	KOLHE SANSKRUTI PRADIP
45	Z145	Ku	KORKE MANSI RAM
46	Z146	Ku	KURREWAR APARNA SHRIKANT
47	Z147	Ku	LIHITKAR VAISHNAVI SHANKARRAO
48	Z148	Ku	LONARE NEHA CHANDAN
49	Z149	Ku	LONDE HARSHADA RAJESH
50	Z150	Ku	MADAVI YUKTA RAJU
51	Z151	Ku	MAHANT MONALI PUNODAS
52	Z152	Ku	MAHEK ANJUM SHAKIR
53	Z153	Ku	MANKAR DHANSHRI VINOD
54	Z154	Ku	MESHRAM ANSHU GANESH
55	Z155	Ku	MESHRAM ANUSHREE RAVI
56	Z156	Ku	MIRE SHIKHA GAJANAN
57	Z157	Ku	MOHOD SAMRUDDHI SATISH
58	Z158	Ku	MUDE DIVYA SUDHAKAR
59	Z159		MUTE TEJASWINI RAJU
60	Z160	Ku	NANDANWAR SUCHETA SURENDRA
61	Z161	Ku	NIKHARE BHAIRAVI MOHANRAO
62	Z162	Ku	NIMBHORKAR SUSHANT SUNIL
63	Z163	Ku	PAIKMARE RIYA SANJAY
64	Z164	Ku	PANEKAR TANNUSHREE SHIRISH
65	Z165	Ku	PARIHAR SHREYA SUSHISINGH
66	Z166	Ku	PATANKAR PURVA RAJESH
67	Z167	Ku	PATEL JHUHI CHAMAN
68	Z168	Ku	PATHADE MRUDULA PRAVIN
69	Z169	Ku	PHAD ANURADDHA RAJABHAU
70	Z170	Ku	PUSADKAR ANNADA VIVEK
71	Z171	Ku	RAMTEKE ROHANSI SHESHRAJ
72	Z172	Ku	RAO P TWINKLE VENUGOPAL
73	Z173	Ku	RATHOD SHALINI ANIL

74	Z174	Ku	RAUT RIYA TRILOKCHAND
75	Z175	Ku	SAHARE JANVI RAJU
76	Z176		SAHU SALONI KASHINATH
77	Z177	Ku	SALPEKAR RADHIKA RAGHUNATH
78	Z178	Ku	SANIA HURMAIN MOHD IRFAN
79	Z179	Ku	SARWE ISHA SHUKHDEO
80	Z180	Ku	SHAIKH ARSHIYA MUSHTAQUE
81	Z181	Ku	SHRIRAME FALGUNI SANDIP
82	Z182	Ku	SHRIVAS KHUSHI RAJESHJI
83	Z183	Ku	SOMKUWAR RADHA RAJESH
84	Z184	Ku	SUBHEDAR PRAPTI ANANT
85	Z185	Ku	TAIKAR JANHAVI GANESH
86	Z186	Ku	TALMALE YUKTI KULDEEP

Rupali
Co-coordinator

Name: Dr. R.A. Patil Bhagat.

Head of the Zoology Department

Shri Shivaji Education Society Amravati's
Science College Congress Nagar, Nagpur
Department of Zoology
Session: 2022-23

NOTICE

Date:01/9/22

All the students of B.Sc. I, II, III are hereby informed that a lecture Certificate Course in Health Care (Biomedical Science) will start from 09/09/22 to 09/11/22. All are informed to attend the lecture.

Time Table

Day	Theory
Friday	RAP (B13) Theory 4.00 PM – 5.00 PM
Saturday	RAP (ZL) practical, 4.00 PM – 5.00 PM
	SVG (B13) Theory, 5.00 PM – 6.00 PM

Rupali
Dr. R. A. Patil Bhagat
Coordinator
Health Care (Biomedical Science)
Department of Zoology

Shivaji Education Society Amravati's
Science College Congress Nagar, Nagpur
Department of Zoology
Session: 2022-23

NOTICE

CERTIFICATE COURSE EXAMINATION SCHEDULE

Date: 15/12/22

All the students of B.Sc. I, II, III enrolled in the **Certificate Course in Healthcare**, This is to inform you that the examination for the certificate course will be held as per the following schedule:

- **Exam Date:** 31/12/22
- **Time:** 10:00 am to 10:45 am
- **Venue:** Department Of Zoology, Shri Shivaji Science College, Nagpur

All the students have to reached 15 min before the exam time.

Repali
Dr. R. A. Patil Bhagat
Coordinator
Health Care (Biomedical Science)
Department of Zoology

Shri Shivaji Education Society Amravati's
Science College, Nagpur

Attendance Sheet 2022-23
Certificate course in Healthcare

Course duration - 30 Hours

Cordinator: Dr. R.A. Patil Bhagat

Sr. No	Name of Students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total		
1	Ku ATYAGARI RENUKA SUDHAKAR	T	T	P	T	P	A	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	
2	Ku BAI MANSA KISHORSINGH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
3	Ku BANTE SHRADDHA GUDDU	P	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
4	Ku BEHAR KHUSHI RAJU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
5	Ku BHAI SARE CHETANA DINESH	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
6	Ku BHAI SARE VISHWANI VILAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
7	Ku BHIMTE SHRYA SURENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
8	Ku BHINGARE VAIDEHI HEMANT	A	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
9	Ku BHUSARI ANJALI SHAMRAO	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
10	Ku BHUSARI PRANMAYI RAJESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
11	Ku BIRE JAHNAVI MILIND	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
12	Ku BODLE PRATHMESH VIJAYGIR	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
13	Ku CHAKRAPANI RUCHITA SANJAY	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
14	Ku CHAKRE AKANSHA SANJEEV	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
15	Ku CHAURAGADE PRANAY RAJESH	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
16	Ku CHEWLANI ISHITA MAHESH	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
17	Ku CHOUDHARY VAISENAVI CHANDRAKANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
18	Ku DAMEDHAR APURVA ANILRAO	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
19	Ku DEVIKAR DIVYA ARUN	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
20	Ku DHAPODKAR GEETANSH SURESH	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
21	Ku DIBINA DINAKARAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
22	Ku DIXIT SHRISHITI ARVIND	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
23	Ku GANVIR ANUSHKA ANIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
24	Ku GAWANDE MAYURI CHANDRAKANT	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
25	Ku GHADGE CHEITNA ARVIND	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	

Head of the Zoology Department

Coordinator: Rupali

Sr. No	Name of Students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	
26	Ku GHODMARE SANSKRUTI SURESH	T	T	P	T	P	P	T	T	P	T	T	P	T	T	P	T	T	P	T	T	P	T	T	P	T	T	T	T	T	T	P	
27	Ku GOKHALE RENUKA PARAG	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
28	Ku GOSWAMI DIVYA VIKAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
31	Ku GOSWAMI LAXMI NISHOR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
32	Ku GUPTA SHREYA RAVINDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
33	Ku HATWAR HRI SHIKA SURESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
34	Ku JAHAGIRDHAR TARINI SACHIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
35	Ku JAMGADE KASHISH CHANDAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
36	Ku JICHKAR FALGUNI YOGESHWAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
37	Ku JICHKAR SHARVARI VITTHALRAO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
38	Ku JOSHI SAEEL MAHESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
39	Ku KAKDE AASHLESHA NARESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
40	Ku KALE MRUNALI CHANDRAJEET	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
41	Ku KALKOTWAR NIMISHA RAJESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
42	Ku KARWADE AWAANI PRASHANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
43	Ku KITKALE RUTUJA VJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
44	Ku KOCHHE MAYURI WALMIK	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
45	Ku KOLHE HARSHINI ARVIND	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
46	Ku KOLHE SANSKRUTI PRADIP	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
47	Ku KORKE MANSI RAM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
48	Ku KURREWAR APARNA SHRUKANT	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
49	Ku LIHITKAR VAISHNA VI SHANKARRAO	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
50	Ku LONARE NEHA CHANDAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Head of the Zoology Department

Coordinator: Rupali

Sr. No	Name of Students	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Toatal				
51	Ku MAHANT MONALI PUNODAS	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
52	Ku MAHEK ANJUM SHAKIR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
53	Ku MANKAR DHANSHRI VINOD	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
54	Ku MESHAM ANSHU GANESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
55	Ku MESHAM ANUSHREE RAVI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
56	Ku MIRE SHIKHA GAJANAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
57	Ku MOHOD SAMRUDDHI SATISH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
58	Ku MUDE DIVYA SUDHAKAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
59	Ku MULTE TEJASWINI RAJU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
60	Ku NANDANWAR SUCHETA SURENDRA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
61	Ku NIKHARE BHAIRAVI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
62	Ku NIMBORKAR SUSHANT SUNIL	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
63	Ku PAKMARE RIYA SANJAY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
64	Ku PANEKAR TANNUSHREE SHIRISH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
65	Ku PARIHAR SHREYA SUSHISINGH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
66	Ku PATANKAR PURVA RAJESH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
67	Ku PATEL JHUI CHAMAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
68	Ku PATHADE MRUDULA PRAVIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
69	Ku PHAD ANURADDHA RAJABHAU	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
70	Ku PUSADKAR ANNADA VIVEK	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
71	Ku RAMITEKE ROHANSI SHESHRAJ	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Head of the Zoology Department

Rupali

Coordinator: _____



Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
DEPARTMENT OF ZOOLOGY
Certificate course in Healthcare (Biomedical Science)
Session: 2022-2023

Sr. No	Roll No		Name of Student	Sign
1	101	Ku	AYYAGARI RENUKA SUDHAKAR	
2	102	Ku	BAIS MANSA KISHORSINGH	
3	103	Ku	BANTE SHRADDHA GUDDU	
4	104	Ku	BEHAR KHUSHI RAJU	
5	105	Ku	BHAISARE CHETANA DINESH	
6	106	Ku	BHAISARE VISHWANI VILAS	
7	107	Ku	BHIMTE SHRIYA SURENDRA	
8	108	Ku	BHINGARE VAIDEHI HEMANT	
9	109		BHUSARI ANJALI SHAMRAO	
10	110	Ku	BHUSARI PRANMAYI RAJESH	
11	111	Ku	BIRE JAHNAVI MILIND	
12	112	Ku	BODLE PRATHMESH VIJAYGIR	
13	113	Ku	CHAKRAPANI RUCHITA SANJAY	
14	114	Ku	CHAKRE AKANSHA SANJEEV	
15	115	Ku	CHAURAGADE PRANAY RAJESH	
16	116	Ku	CHEWLANI ISHITA MAHESH	
17	117	Ku	CHOUDHARY VAISHNAVI CHANDRAKANT	
18	118	Ku	DAMEDHAR APURVA ANILRAO	
19	119	Ku	DEVIKAR DIVYA ARUN	
20	120	Ku	DHAPODKAR GEETANSHI SURESH	
21	121	Ku	DIBINA DINAKARAN	
22	122	Ku	DIXIT SHRISHTI ARVIND	
23	123	Ku	GANVIR ANUSHIKA ANIL	
24	124	Ku	GAWANDE MAYURI CHANDRAKANT	
25	125	Ku	GHADGE CHITNA ARVIND	
26	126	Ku	GHODMARE SANSKRUTI SURESH	

27	127	Ku	GOKHALE RENUKA PARAG	<u>R.</u>
28	128	Ku	GOSWAMI DIVYA VIKAS	<u>Goswami</u>
29	129	Ku	GOSWAMI LAXMI KISHOR	<u>Laxmi.</u>
30	130	Ku	GUPTA SHIREYA RAVINDRA	<u>Gupta</u>
31	131	Ku	HATWAR HRUSHIKA SURESH	<u>Hatwar</u>
32	132	Ku	JAHAGIRDHAR TARINI SACHIN	<u>Tarini</u>
33	133	Ku	JAMGADE KASHISHI CHANDAN	<u>J.S.</u>
34	134	Ku	JICHKAR FAIGUNI YOGESHWAR	<u>Jichkar</u>
35	135		JICHKAR SHARVARI VITTHALRAO	<u>Jichkar</u>
36	136	Ku	JOSHI SAEED MAHESH	<u>Joshi</u>
37	137	Ku	KARDE LASHLESHA NARESH	<u>Karde</u>
38	138	Ku	KALE MRUNALI CHANDRAJEET	<u>Kale</u>
39	139	Ku	KALKOTWAR NIMISHA RAJESH	<u>Kalkotwar</u>
40	140		KARWADE AWAANI PRASHANT	<u>Karwade</u>
41	141	Ku	KITUKALE RUTUJA VIJAY	<u>Kitukale</u>
42	142	Ku	KOCHE MAYURI WALMIK	<u>Koche</u>
43	143	Ku	KOLHE HARSHINI ARVIND	<u>Kolhe</u>
44	144	Ku	KOLHE SANSKRUTI PRADIP	<u>Kolhe</u>
45	145	Ku	KORKE MANSI RAM	<u>Korke</u>
46	146	Ku	KURREWAR APARNA SHRIKANT	<u>Kurrewar</u>
47	147	Ku	LIHITKAR VAISHNAVI SHANKARRAO	<u>Lihitkar</u>
48	148	Ku	LONARE NEHA CHANDAN	<u>Lonare</u>
49	149	Ku	LONDE HARSHADA RAJESH	<u>Londe</u>
50	150	Ku	MADAVI YUKTA RAJU	<u>Madavi</u>
51	151	Ku	MAHANT MONALI PUNODAS	<u>Mahant</u>
52	152	Ku	MAHEK ANJUM SHAKIR	<u>Mahak</u>
53	153	Ku	MANKAR DHANSHRI VINOD	<u>Mankar</u>
54	154	Ku	MESHARAM ANSHU GANESH	<u>Mesharam</u>
55	155	Ku	MESHARAM ANUSHREE RAVI	<u>Mesharam</u>
56	156	Ku	MIRE SHIKHA GAJANAN	<u>Mire</u>
57	157	Ku	MOHOD SAMRUDDHI SATISH	<u>Mohod</u>
58	158	Ku	MUDE DIVYA SUDHAKAR	<u>Mude</u>
59	159		MUTE TEJASWINI RAJU	<u>Mute</u>
60	160	Ku	NANDANWAR SUCHETA SURENDRA	<u>Nandanwar</u>
61	161	Ku	NIKHARE BHAIRAVI MOHANRAO	<u>Nikhare</u>

Indranil

62	162	Ku	NIMBHORKAR SUSHANT SUNIL	Sushant
63	163	Ku	PAIKMARE RIYA SANJAY	Riya
64	164	Ku	PANEKAR TANNUSHREE SHIRISH	Tanna
65	165	Ku	PARIHAR SHREYA SUSHISINGHI	Shreya
66	166	Ku	PATANKAR PURVA RAJESH	P. Patankar
67	167	Ku	PATEL JHUMI CHAMAN	Jhumi
68	168	Ku	PATHADE MRUDULA PRAVIN	Mrudula
69	169	Ku	PHAD ANURADDHA RAJABHAU	Anu
70	170	Ku	PUSADKAR ANNADA VIVEK	Annada Pusadkar
71	171	Ku	RAMTEKE ROHANSI SHESHIRAJ	Rohansi
72	172	Ku	RAO P TWINKLE VENUGOPAL	Twinkle
73	173	Ku	RATHOD SHALINI ANIL	Shalini
74	174	Ku	RAUT RIYA TRILOKCHAND	Riya
75	175	Ku	SAHARE JANVI RAJU	Janvi
76	176		SAHU SALONI KASHINATH	Saloni
77	177	Ku	SALPEKAR RADHIKA RAGHUNATH	Radhika
78	178	Ku	SANIA HURMAIN MOHD IRFAN	Hurmain
79	179	Ku	SARWE ISHA SHUKHDEO	Isha
80	180	Ku	SHAIKH ARSHIYA MUSHTAQUE	Arshiya
81	181	Ku	SHRIRAME FALGUNI SANDIP	Falguni
82	182	Ku	SHRIVAS KHUSHI RAJESHJI	Khushi
83	183	Ku	SOMKUWAR RADHA RAJESH	Radha
84	184	Ku	SUBHEDAR PRAPTI ANANT	Prapti
85	185	Ku	TAIKAR JANHAVI GANESH	Janhavi
86	186	Ku	TALMALE YUKTI KULDEEP	Yukti

Co-coordinator

Name: Dr. R.A. Patil Bhaged

Head of the Zoology Department

Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
DEPARTMENT OF ZOOLOGY
Academic session 2022-2023
Certificate course in
HEALTH CARE (BIOMEDICAL SCIENCE)
MCQ TEST EXAMINATION

Time: 45 min

Maximum Marks: 80

N.B.: Solve all the questions

Roll. No.:

✓ Tick for right answer

Q. 1. Health can be defined as:

2 points

- A. State of complete physical, mental and social well-being of an individual
- B. State of being free from any illness
- C. A persons physical or mental condition
- D. All above are correct

Q. 2. Optometry is:

2 points

- A. A branch of health science that deals with the study of mind and behaviour
- B. A branch of health science that deals with the study and treatment of hearing systems
- C. A branch of health science that deals with the study and treatment of visual systems
- D. A branch of health science that deals with the discovery and effective use of drugs

Q. 3. Midwifery is:

2 points

- A. A branch of health science that deals with the study and treatment of hearing systems
- B. A branch of science that deals with study of occupations
- C. A branch of health science that deals with the study and treatment of visual systems
- D. A branch of health science that deals with pregnancy, child birth and care of new born individuals

Q. 4. Health information can be obtained from:

2 points

- A. Government websites
- B. Medical journals
- C. Educational websites
- D. All above are correct

Q. 5. Artificial Intelligence is:

2 points

- A. Use of specialized machines, software programs and materials to automate the process of building objects like splints, prostheses, etc.
- B. A program that enables computers to sense, reason, act and adapt
- C. Imaging hardware and software
- D. All above are correct

2 points

Q. 6. Surgical robots:

- A. Conduct biopsies, film the affected areas and clear blocked arteries
- B. Moved inside a patient and delivered to a desired area
- C. Help nurses in health care
- D. All above are correct

2 points

Q. 7. Self monitoring is done with the help of:

- A. Smartphones
- B. Tablets
- C. Wearable technology like fitbit
- D. All above are correct

2 points

Q. 8. Occupational therapist often work with individuals:

- A. Mental disabilities
- B. Physical disabilities
- C. Injuries
- D. All above are correct

Q. 9. Children and adults with mental and physical disabilities are addressed by: 2 points

- A. Audiologist
- B. Psychologist
- C. Physical therapist
- D. Occupational Therapist

Q. 10. World Occupational Therapy day is celebrated on: 2 points

- A. October 27
- B. October 21
- C. September 25
- D. August 23

Q. 11. -----is one of laboratory disciplines of Biomedical Science

2 points

- A. Genetics and Molecular Pathology
- B. Animal Physiology
- C. Physics
- D. Pharmaceutical Science

Q. 12 -----Invented microscope

2 points

- A. Hippocrate
- B. Aristotle
- C. Newton
- D. Anton van Leeuwenhoek

Q. 13 -----is a new concept used to represent obtaining medical or surgical services while traveling or vacationing in another country.

2 points

- A. Eco Tourism
- B. Medical Tourism
- C. Agro Tourism
- D. Aqua Tourism

Q. 14 Healthcare sector governed by -

2 points

- A. Ministry of Health and Family Welfare
- B. Ministry of Defence
- C. Ministry of Rural Development
- D. Ministry of Human Resource Development

Q. 15 Which of the following is the best definition of the term “health insurance premium?” 2 points

- A. The best type of health insurance you can buy.
- B. The amount health insurance companies charge each month for coverage.
- C. A bonus you get at the end of the year if you stay covered.
- D. Don't know.

Q. 16 World largest Government funded Healthcare Scheme

2 points

- A. Ayushman Bharat
- B. Ayushman India
- C. Ayushmati Bharti
- D. Ayush

Q. 17 —is the study of genes, genetic variation, and heredity in living organisms

2 points

- A. Histology
- B. Cytology
- C. Genetics
- D. Psychology

Q. 18 Is a health insurance premium something you must pay every month, regardless of whether you use health care services, or do you only have to pay your health insurance premium during months when you use health care services?

2 points

- A. Only have to pay in months when you use health care services
- B. Must pay every month, regardless of whether you use services
- C. premium is the monthly fee all enrollees pay in order to have health insurance coverage
- D. Don't know

Q. 19 Ability to provide interactive healthcare utilizing modern technology and telecommunications -

2points

- A. Aurvedic Medicine
- B. Telemedicine
- C. Telehealth
- D. Teleperformance

Q.20 ----- is more popular for cosmetic surgery

2 points

- A. Singapore
- B. Thailand
- C. Malaysia
- D. Phillipines

Q.21 The World Health Day is celebrated on _____.

2 points

- (a) 1st March
- (b) 7th April
- (c) 6th October
- (d) 10th December

Q.22. Cleanliness, physical exercise, rest and sleep are a part of _____.

2 points

- (a) Hygiene
- (b) Social hygiene
- (c) Personal hygiene
- (d) None of the above

Q.23. Which one of the following is an unhealthy habit?

2 points

- (a) Sharing food
- (b) Bathing twice a day
- (c) Drinking boiled water
- (d) Eating without washing one's hand

Q.24. Which one of the following is not a bacterial disease?

2 points

- (a) AIDS
- (b) Dengue
- (c) Measles
- (d) All of the above

Q.25. Which of the following diseases is also called as "Salmonella enterica serotype Typhi"? 2 points

- (a) Typhoid
- (b) Malaria
- (c) Diarrhea
- (d) Yellow fever

Q.26. Which of the following is the main cause for transmission of the Hepatitis virus? 2 points

- (a) The bite of a mosquito
- (b) Sharing drug needles
- (c) Drinking contaminated water
- (d) All of the above

Q.27. Which of the following statements is true about contamination?

2 points

- (a) Contamination is caused by the entry of germs by an insect bite
- (b) Contamination is caused by the entry of germs by an animal bite
- (c) Contamination is caused by the entry of germs into drinking water or edible foods.
- (d) None of the above

Q.28. Which of the following diseases is not caused by bacteria?

2 points

- (a) Typhoid
- (b) Poliomyelitis
- (c) Tuberculosis
- (d) All of the above.

Q.29. The main cause of contagious disease is _____.

2 points

- (a) Contaminated Air
- (b) Contaminated Food
- (c) Poor hygienic conditions
- (d) All of the above

Q.30. Which of the following factors is necessary for a healthy person?

2 points

- (a) Vaccination
- (b) Balanced diet
- (c) Personal hygiene
- (d) All of the above

Q.31. Which of the following is/are the elements of nutrition?.

2 points

- A. Carbohydrates
- B. Proteins
- C. Fats
- D. All of these

Q.32. All except one are true about the significance of dietary fiber ?

2 points

- A. It promotes peristalsis
- B. Reduces Cholesterol absorption.
- C. Increases glycemic index
- D. Acts as an anti oxidant

Q.33. Which of the following has the highest Specific dynamic action (SDA) ?

2 points

- A. Egg
- B. Potato
- C. Corn oil
- D. Mango

Q.34. Which of the following nutrients is rich in short and medium chain fatty acids ? 2 points

- A. Milk
- B. Peanut oil
- C. Sunflower oil
- D. Almond oil

Q.35. Human most easily tolerate a lack of which of the following nutrient ?

2 points

- A. Protein
- B. Carbohydrate
- C. Lipids
- D. Calcium

Q.36. When the food is directly given in the veins, it is called _____ nutrition. 2 points

- A. Parenteral
- B. Enteral
- C. Intravenous
- D. Saline

Q.37. When food is given in the stomach or intestines directly then it is _____ nutrition. 2 points

- A. Intravenous
- B. Saline
- C. Enteral
- D. Parenteral

Q.38. A person who has had a renal transplant should regulate the intake of _____. 2 points

- A. carbohydrates
- B. proteins
- C. fats
- D. vitamins

Q.39. To overcome diabetes, a person can increase the intake of _____ and reduce the intake of. 2 points

- A. carbohydrates, proteins
- B. proteins, fats
- C. fats, carbohydrates
- D. carbohydrates, fats

Q.40. For a person suffering from problems like slow neural transmission, eg dementia, they should be given _____ 2 points

- A. Increased sodium
- B. Increased potassium
- C. Increased calcium
- D. Increased magnesium

**Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
DEPARTMENT OF ZOOLOGY
Academic session 2022-2023
Certificate course in
Healthcare (Biomedical Science)**

Time: 1-2HRS.

Maximum Marks: 20

Q1. While driving home from work, you witness a two-car collision at an intersection. One driver appears to be unconscious, and the other is bleeding profusely from a head wound. There are no emergency services on the scene yet.

Question:

Describe the steps you would take to provide primary aid to both individuals involved in the accident, prioritizing your actions from the moment you arrive at the scene 05

Q2. write in detail about typhoid: its symptoms, diagnosis and treatment. 05

Q3. Estimation of Blood pressure - 05

Q4. Estimation of Blood Sugar - 05



Shri Shivaji Education Society Amravati's
Science College, Congress Nagar, Nagpur
DEPARTMENT OF ZOOLOGY
Certificate course in Healthcare : Biomedical Science Session 1

Sr. No	Roll NO		Name of Students	Marks		Total Marks	Grades
				Theory	Practical		
1	2101	Ku	AYYAGARI RENUKA SUDHAKAR	80	19	99	O
2	2102	Ku	BAIS MANSA KISHORSINGH	76	20	96	O
3	2103	Ku	BANTE SHRADDHA GUDDU	78	18	96	O
4	2104	Ku	BEHAR KHUSHI RAJU	72	19	91	O
5	2105	Ku	BHAISARE CHETANA DINESH	76	15	91	O
6	2106	Ku	BHAISARE VISHWANI VILAS	72	16	88	A+
7	2107	Ku	BHIMTE SHRIYA SURENDRA	78	20	98	O
8	2108	Ku	BHINGARE VAIDEHI HEMANT	78	19	97	O
9	2109		BHUSARI ANJALI SHAMRAO	78	16	94	O
10	2110	Ku	BHUSARI PRANMAYI RAJESH	76	12	88	A+
11	2111	Ku	BIRE JAHNAVI MILIND	76	13	89	A+
12	2112	Ku	BODLE PRATHMESH VIJAYGIR	76	15	91	O
13	2113	Ku	CHAKRAPANI RUCHITA SANJAY	78	18	96	O
14	2114	Ku	CHAKRE AKANSHA SANJEEV	76	19	95	O
15	2115	Ku	CHAURAGADE PRANAY RAJESH	60	15	75	A
16	2116	Ku	CHEWLANI ISHITA MAHESH	78	20	98	O
17	2117	Ku	CHOUDHARY VAISHNAVI CHANDRAKANT	78	19	97	O
18	2118	Ku	DAMEDHAR APURVA ANILRAO	76	18	94	O
19	2119	Ku	DEVIKAR DIVYA ARUN	72	17	89	A+
20	2120	Ku	DHAPODKAR GEETANSHI SURESH	68	16	84	A+
21	2121	Ku	DIBINA DINAKARAN	74	15	89	A+
22	2122	Ku	DIXIT SHRISHITI ARVIND	74	18	92	O
23	2123	Ku	GANVIR ANUSHKA ANIL	70	12	82	A+
24	2124	Ku	GAWANDE MAYURI CHANDRAKANT	66	12	78	A
25	2125	Ku	GHADGE CHETNA ARVIND	64	17	81	A+

26	2126	Ku	GHODMARE SANSKRUTI SURESH	72	12	84	A+
27	2127	Ku	GOKHALE RENUKA PARAG	68	18	86	A+
28	2128	Ku	GOSWAMI DIVYA VIKAS	72	19	91	O
29	2129	Ku	GOSWAMI LAXMI KISHOR	74	20	93	O
30	2130	Ku	GUPTA SHREYA RAVINDRA	70	20	90	A+
31	2131	Ku	HATWAR HRUSHIKA SURESH	72	19	91	O
32	2132	Ku	JAHAGIRDHAR TARINI SACHIN	68	18	86	A+
33	2133	Ku	JAMGADE KASHISH CHANDAN	66	17	83	A+
34	2134	Ku	JICHKAR FALGUNI YOGESHWAR	60	18	78	A
35	2135		JICHKAR SHARVARI VITTHALRAO	70	19	89	A+
36	2136	Ku	JOSHI SAE MAHESH	76	20	96	O
37	2137	Ku	KAKDE AASHLESHA NARESH	66	18	84	A+
38	2138	Ku	KALE MRUNALI CHANDRAJEET	74	19	93	O
39	2139	Ku	KALKOTWAR NIMISHA RAJESH	76	17	93	O
40	2140		KARWADE AWAANI PRASHANT	76	16	92	O
41	2141	Ku	KITUKALE RUTUJA VIJAY	70	15	85	A+
42	2142	Ku	KOCHE MAYURI WALMIK	76	18	94	O
43	2143	Ku	KOLHE HARSHINI ARVIND	74	16	90	A+
44	2144	Ku	KOLHE SANSKRUTI PRADIP	78	12	90	A+
45	2145	Ku	KORKE MANSI RAM	72	13	85	A+
46	2146	Ku	KURREWAR APARNA SHRIKANT	74	18	92	O
47	2147	Ku	LIHITKAR VAISHNAVI SHANKARRAO	78	19	97	O
48	2148	Ku	LONARE NEHA CHANDAN	68	20	88	A+
49	2149	Ku	LONDE HARSHADA RAJESH	70	20	90	A+
50	2150	Ku	MADAVI YUKTA RAJU	72	19	91	O
51	2151	Ku	MAHANT MONALI PUNODAS	66	20	86	A+
52	2152	Ku	MAHEK ANJUM SHAKIR	74	18	92	O
53	2153	Ku	MANKAR DHANSHRI VINOD	74	19	93	O
54	2154	Ku	MESHRAM ANSHU GANESH	70	20	90	A+
55	2155	Ku	MESHRAM ANUSHREE RAVI	74	16	90	A+
56	2156	Ku	MIRE SHIKHA GAJANAN	70	14	84	A+
57	2157	Ku	MOHOD SAMRUDDHI SATISH	68	12	80	A+
58	2158	Ku	MUDE DIVYA SUDHAKAR	68	15	83	A+
59	2159		MUTE TEJASWINI RAJU	72	15	87	A+

60	Z160	Ku	NANDANWAR SUCHETA SURENDRA	68	16	84	A+
61	Z161	Ku	NIKHARE BHAIRAVI MOHANRAO	72	17	89	A+
62	Z162	Ku	NIMBHORKAR SUSHANT SUNIL	74	19	93	O
63	Z163	Ku	PAIKMARE RIYA SANJAY	70	20	90	A+
64	Z164	Ku	PANEKAR TANNUSHREE SHIRISH	76	20	96	O
65	Z165	Ku	PARIHAR SHREYA SUSHISINGH	76	16	92	O
66	Z166	Ku	PATANKAR PURVA RAJESH	72	19	91	O
67	Z167	Ku	PATEL JHUHI CHAMAN	70	17	87	A+
68	Z168	Ku	PATHADE MRUDULA PRAVIN	78	20	90	A+
69	Z169	Ku	PHAD ANURADDHA RAJABHAU	76	19	95	O
70	Z170	Ku	PUSADKAR ANNADA VIVEK	74	18	92	O
71	Z171	Ku	RAMTEKE ROHANSI SHESHRAJ	78	20	98	O
72	Z172	Ku	RAO P TWINKLE VENUGOPAL	76	12	88	A+
73	Z173	Ku	RATHOD SHALINI ANIL	76	19	95	O
74	Z174	Ku	RAUT RIYA TRILOKCHAND	76	15	91	O
75	Z175	Ku	SAHARE JANVI RAJU	78	20	98	O
76	Z176		SAHU SALONI KASHINATH	76	15	91	O
77	Z177	Ku	SALPEKAR RADHIKA RAGHUNATH	78	13	91	O
78	Z178	Ku	SANIA HURMAIN MOHD IRFAN	78	19	97	O
79	Z179	Ku	SARWE ISHA SHUKHDEO	74	14	88	A+
80	Z180	Ku	SHAIKH ARSHIYA MUSHTAQUE	76	15	91	O
81	Z181	Ku	SHRIRAME FALGUNI SANDIP	76	14	90	A+
82	Z182	Ku	SHRIVAS KHUSHI RAJESHJI	78	18	96	O
83	Z183	Ku	SOMKUWAR RADHA RAJESH	78	16	94	O
84	Z184	Ku	SUBHEDAR PRAPTI ANANT	78	13	91	O
85	Z185	Ku	TAIKAR JANHAVI GANESH	76	12	88	A+
86	Z186	Ku	TALMALE YUKTI KULDEEP	76	12	88	A+

Co-coordinator

Name: _____

Rupali

Head of the Zoology Department

Apaley

**Shivaji Education Society Amravati's
Science College Congress Nagar, Nagpur
Department of Zoology
Session: 2022-23**

Report On Certificate Course In “Healthcare (Biomedical Science)”

Department Of Zoology, Shri Shivaji Science College, Nagpur conducted certificate course on Healthcare (Biomedical Science). Health of the people is important to aware the society about it. It is characterized as anatomic, physiologic, and psychological integrity to perform work. Health Care System (HCS) infrastructure includes services, facilities, institutions/establishments and organizations. They provide individuals, families and communities with primitive, protective, preventive, diagnostic, curative and rehabilitative measures and services. A Healthcare (Biomedical Science) course typically focuses on the scientific and technical aspects of health and disease, providing students with a comprehensive understanding of the biological and physiological principles underlying medical practice. The Healthcare (Biomedical Science) course integrates foundational knowledge in Life Science, chemistry, and physics with specialized medical and clinical applications. It prepares students for careers in healthcare, research, and related fields.

Certificate course on Healthcare (Biomedical Science) was undertaken by the students of B.Sc. I, II and III of CBZ group, as a part of additional academic curriculum under the guidance of Dr. R. A. Patil Bhagat with view to provide complete knowledge on healthcare. 86 students participated in the ten-week (30 hours) certificate course in healthcare. The Certificate Course in Healthcare (Biomedical Science) course integrates foundational knowledge in Life Science, chemistry, and physics with specialized medical and clinical applications. It prepares students for careers in healthcare, research, and related fields.

ACTION TAKEN: By completing this certificate program, individuals gain the knowledge and skills needed to enhance patient diagnosis, treatment, and overall healthcare delivery

Rupali

Dr. R. A. Patil Bhagat
Coordinator
Healthcare (Biomedical Science)
Department of Zoology



Shri Shivaji Education Society Amravati's
**SCIENCE COLLEGE, CONGRESS NAGAR,
NAGPUR**



Accredited with CGPA of 3.51 at 'A+' Grade
A College with Potential for Excellence

CERTIFICATE

Mr./Ku. Pranmayi R. Bhusari is awarded with certificate on successful completion of the course entitled, Certificate course in "Healthcare: Biomedical Science".

Session 2022-23 under Add-on course conducted for 30 hours from 16/08/2022 to 22/10/2022 by Department of Zoology, SSES's, Science College, congress Nagar, Nagpur 440012.

He/She has passed the Examination with 'A+' Grade.

Rupali

Dr. Mrs. R. A. Patil Bhagat
Coordinator, Department of Zoology

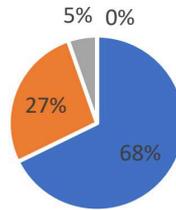
M. P. Dhore

Prof. M. P. Dhore
Principal, Science College, Nagpur

Feedback analysis

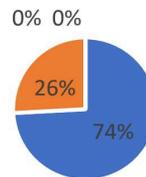
How would you rate the overall quality of the course content?

- excellent
- good
- fair
- poor



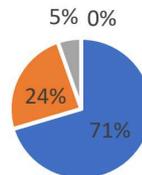
How well did the course meet your expectations in terms of knowledge and skills gained?

- very relevant
- relevant
- somewhat relevant
- not relevant



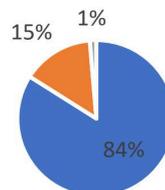
How effective were the practical sessions in enhancing your understanding of healthcare practices?

- Very effective
- effective
- Somewhat effective
- not effective



How likely are you to recommend this course to your colleagues or peers?

- VERY LIKELY
- LIKELY
- UNLIKELY
- VERY UNLIKELY



Alia A. Habibi
Internal Quality Assurance Cell
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Congress Nagar, Nagpur.



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