



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY  
Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)

**DEPARTMENT OF LIFELONG LEARNING AND EXTENSION**

Gururanak Bhavan, University Campus, Amravati Road, Nagpur - 440 033. Phone : 2530860  
E-mail : doll.rtmnu@gmail.com

To,  
The Principal  
Shivaji Science College,  
Nagpur,

No.DOLLE236/19

Dated : 16.10.2019

9423103043  
Subject : **Sanction for Conducting Short Term Courses under  
Jeevan Shikshan Abhiyan on No Grant Basis.**

Sir/Madam,

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department, I am to inform you that your proposal has been accepted by the Department and your College has been granted permission to conduct the course on the following conditions:

**Details of the Course**

Sr. No.	Name of the Course	Duration	No. of Candidates to be admitted	Fees to be Charged per Student	Fees to be Deposited With the Deptt.
1	Certificate Course in Groundwater Exploration	8 Weeks	20	1200/-	10%
2	Certificate Course in Statistical Quality Control	6 Weeks	20	650/-	10%
3	Certificate Course in Immune-Diagnostics	4 Weeks	20	2200/-	10%
4	Certificate Course in Environmental and Water Management	6 Weeks	20	1000/-	10%
5	Certificate Course in Mushroom Cultivation	6 Weeks	20	1000/-	10%
6	Certificate Course in Biofertilisers and Biopesticides	12 Weeks	20	1500/-	10%
7	Certificate Course in Forestry and Wild Life Management	6 Weeks	20	1500/-	10%

**Rules & Regulations of this Department regarding these courses should be strictly followed.**

1. **This sanction is valid for this particular Batch only.**
2. Fees for the course should be charged as per the norms prescribed.
3. Expenditure on the course should be incurred as per norms.
4. Course should be started within a Month from **the date of sanction.**  
Please communicate your acceptance within **a month and submit Initial Report Along with list of students admitted.**

Dr. A.D. Bobdey  
for n.a -  
MBH  
03-01-2020

Your's faithfully,

*[Signature]*  
Director



Shri Shivaji Education Society Amravati's

**SCIENCE COLLEGE**

Congress Nagar, Nagpur - 440012 (M.S.) India.  
Accredited With CGPA Of 3.51 At 'A+' Grade.



**Department of Botany**

Organizes

**SKILL-BASED  
MUSHROOM  
CULTIVATION  
CERTIFICATE  
COURSE**

**2019-2020**

**ABOUT COURSE**

- Extensive training in mushroom cultivation techniques.
- Practical, hands-on experience with real-world applications.
- Expert guidance from industry experts.
- In-depth exploration of substrate preparation, inoculation, and harvesting.
- Skills development through project presentations and assessments.



**For Registration Contact**

**Dr. Rupali H. Mahakhode**

Application for Admission to Skill based course.

1) Certificate course :  2) Diploma course:  3) Advance d

To,  
The Principal,  
Science College  
Congress Nagar, Nagpur-12



R/Sir,

I hereby apply for admission to the above course. I shall abide by the rules and regulations of the concerned department and college.

Rutika Kandrikar

Signature of the applicant

PARTICULARS TO BE FILLED IN BY THE CANDIDATE:

1) Full Name (Block Letters) RUTIKA TARACHAND KANDRIKAR

2) Details of last exam. passed/failed/group/ percent marks obt. -----

3) Name of Skill base programme to apply : Mushroom cultivation

4) Details of other courses Applied/admitted -----

5) Date of birth : 11-03-2002 Contact No. 9307372331

E-mail. Rutikakandrikar2002@gmail.com

6) Information of Father / Guardian:

a) Full Name : TARACHAND PARASRAM KANDRIKAR b) Occupation: Hardworker

c) Annual Income: 80,000 d) Contact No. 8007153652

e) E. mail. -----

Postal address of student for correspondence:

Ganoba maidan, Near Dalvi  
Hospital Rana Square  
Nagpur - 440008

Rutika Kandrikar

Signature of the applicant

Declaration of Father or Guardian

I declare that the applicant is my son / daughter / ward and the particulars given above by him / her are correct and shall see that he / she observes all the rules of the college.

Parasram Kandrikar

Signature of the father / Guardian  
Full Name: Tarachand Kandrikar  
Address Ganoba maidan Near  
Dalvi hospital, Rana Square  
Nagpur - 440008

S.S.E.S. AMRAVATI'S SCIENCE COLLEGE CONGRESS NAGAR, NAGPUR

**Department of Botany**

**Certificate Course in Mushroom Cultivation Syllabus**

Course components	Learning hours and mode of delivery
<b>Unit-I: Introduction to mushrooms</b> I. Scope, importance and history II. Classification of Mushroom III. Identification of Edible & Poisonous Mushrooms IV. Economic Importance of Mushroom	3 Weeks 07 THEORY
<b>Unit-II: Infrastructure</b> I. Designing & construction of Mushroom farms II. Tools & Machinery III. Sterilization and inoculation technique IV. Mushroom compost	2 Weeks 03 THEORY
<b>Unit-III: Cultivation technique</b> I. Climate requirement II. Bed/Bag preparation III. Types of straw in Mushroom Cultivation IV. Harvesting and post harvesting care	2 Weeks 04 THEORY
<b>Unit-IV: Crop management &amp; Health benefits</b> I. Crop management II. Role of fungicide and bactericide III. Nutritional & Medicinal value of Mushroom IV. Mushroom care & handling	3 Weeks 06 THEORY
<b>List of Practical:</b> I. To study the identification of different types of Mushrooms II. To study the Tools used in mushroom cultivation III. To study the designing of mushroom unit IV. To study Sterilization technique V. To study inoculation technique VI. Preparation of different types of compost VII. Pasteurization of compost VIII. Methods of selection of different straws IX. To demonstrate Bed preparation X. To demonstrate Bag preparation XI. Selection of correct spawn XII. To study the different types of fungicide XIII. To study the different types of bactericide XIV. Mushroom care & handling XV. Field visit & project submission XVI. Workshop on Mushroom Cultivation	20 PRACTICAL

*Mahakhole*  
(Dr. R. H. Mahakhole)  
Assistant Professor  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.

**Teaching Plan**  
**Certificate Course (10 Weeks)**  
**Mushroom Cultivation**

Weeks	Theory/Practical	Class/ Hours	Contents
Week I	Theory 1	60 min.	Introduction & History of Mushroom
	Theory 2	60 min.	Scope & Importance of Mushroom
	Practical	60 min.	Introduction to different Mushrooms
	Practical	60 min.	Morphology of Mushroom
Week II	Theory 3	60 min.	Classification of Mushroom
	Theory 4	60 min.	Identification of Edible Mushroom
	Practical	60 min.	To study the identification of Edible Mushroom
	Practical	60 min.	To study the identification of Poisonous Mushroom
Week III	Theory 5	60 min.	Identification of Poisonous Mushroom
	Theory 6	60 min.	Characters of Edible & Poisonous Mushroom
	Practical	60 min.	To study the tools used in mushroom cultivation
	Practical	60 min.	To study the designing of mushroom unit
Week IV	Theory 7	60 min.	Economic importance of Mushroom
	Theory 8	60 min.	Designing & construction of Mushroom farms
	Practical	60 min.	To study sterilization technique
	Practical	60 min.	To study inoculation technique
Week V	Theory 9	60 min.	Different tools & machinery used in mushroom cultivation
	Theory 10	60 min.	Sterilization & Inoculation technique
	Practical	60 min.	Preparation of different types of compost
	Practical	60 min.	Pasteurization of compost
Week VI	Theory 11	60 min.	Climate requirement
	Theory 12	60 min.	Bed preparation
	Practical	60 min.	Selection of correct spawn
	Practical	60 min.	Methods of selection of different straws

Week VII	Theory 13	60 min.	Bag preparation
	Theory 14	60 min.	Harvesting & Post harvesting care
	Practical	60 min.	To demonstrate Bed preparation
	Practical	60 min.	To demonstrate Bag preparation
Week VIII	Theory 15	60 min.	Crop management
	Theory 16	60 min.	Role of fungicide
	Practical	60 min.	To study the different types of fungicide
	Practical	60 min.	To study the different types of bactericide
Week IX	Theory 17	60 min.	Role of bactericide
	Theory 18	60 min.	Nutritional value of mushroom
	Practical	60 min.	Mushroom care & handling
	Practical	60 min.	Field visit
Week X	Theory 19	60 min.	Medicinal value of mushroom
	Theory 20	60 min.	Project writing
	Practical	60 min.	Spotting on different types of Mushroom
	Practical	60 min.	Workshop on Mushroom Cultivation

*R. Mahakhode*

Dr. R.H. Mahakhode

Course Coordinator

Dr. R.H. Mahakhode

Assistant Professor

Department of Botany

SSES Amt's Science College

Congress Nagar, Nagpur-440012.

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

**Department of Botany**  
SKILL BASE PROGRAMME (2019-2020)  
Certificate Course: Mushroom Cultivation

**Notice**

**Date: 04/01/2020**

The Department of Botany is conducting **Certificate Course in Mushroom Cultivation** (Skill Based Course) under Department of Life Long Learning and Extension, RTMNU, Nagpur for the session 2019-20. Interesting students of B.Sc. Part I & Part II should register themselves in early and contact to the Course Coordinator Dr. R. H. Mahakhode immediately. Last Date for admission is 30 January 2020.

Course	Admission Fees
Mushroom Cultivation	Rs. 1000/-

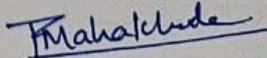
*R. H. Mahakhode*

Dr. R.H. Mahakhode  
Course Coordinator  
Dr. ~~Deppaf B. Mahakhode~~  
Assistant Professor  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012.

**RTM Nagpur University**  
**Department of Life Long Learning and Extension**  
**Skill Based Course**  
**Certificate Course in Mushroom Cultivation**  
**Duration: Eight Weeks; Session: 2019-20**  
**Department of Botany**

**List of Students**

1. Samiksha Manohar Admane
2. Padmabati Ashok Kumar Dehury
3. Sejal Umesh Nilatkar
4. Mrunal Mangesh Fadnavis
5. Aarya Sarang Chavhan
6. Dipali Tarachand Chulpar
7. Vaishnavi Ashok Ade
8. Nidhi Devanand Manwatkar
9. Sakshi Harish Patil
10. Khushi Sunil Armarkar
11. Bhuvan Sanjay Pashine
12. Sanket Bhujang Kamble
13. Vedant Bulmukund Patwa
14. Sanket Pramod Jogi
15. Vaibhav Sunil Jaronde
16. Samiksha Ravindra Nishane
17. Asmita Amrut Wagh
18. Snehal Uttam Gaikwad
19. Rutuja Rajan Meshram
20. Tushar Haridas Pilewan

  
Dr. R. H. Mahakhode  
Course Coordinator  
Dr. Rupali H. Mahakhode  
Assistant Professor  
Department of Botany  
SSES Am't's Science College  
Congress Nagar, Nagpur-440012.



S.S.E.S.A's Science College, Congress Nagar, Nagpur  
Department of Botany  
SKILL BASE PROGRAMME (2019-2020)  
Certificate Course: Mushroom Cultivation  
List of the Admitted Students

Sr. No.	Name of the Student	Signature
1	Samiksha Manohar Admane	Samiksha
2	Padmabati Ashok Kumar Dehury	Dehury
3	Sejal Umesh Nilatkar	Sejal...
4	Mrunal Mangesh Fadnavis	Mrunal
5	Aarya Sarang Chavhan	Aarya
6	Dipali Tarachand Chulpar	Dipali
7	Vaishnavi Ashok Ade	Ade
8	Nidhi Devanand Manwatkar	N. D. Manwatkar
9	Sakshi Harish Patil	S. Patil
10	Khushi Sunil Armarker	Khushi
11	Bhuvan Sanjay Pashine	B. Pashine
12	Sanket Bhujang Kamble	S. Kamble
13	Vedant Bulmukund Patwa	Vedant
14	Sanket Pramod Jogi	S. P. Jogi
15	Vaibhav Sunil Jaronde	Vaibhav
16	Samiksha Ravindra Nishane	Samiksha
17	Asmita Amrut Wagh	A. A. Wagh
18	Snehal Uttam Gaikwad	Snehal U. Gaikwad
19	Rutuja Rajan Meshram	R. R. M.
20	Tushar Haridas Pilewan	T. Pilewan
21	Rutik Sunil Wasnik	Rutik
22	Rutuja Tarachand Kandrikar	Rutuja

Mahakhode

Dr. R. H. Mahakhode  
Course Coordinator

Dr. Rupali H. Mahakhode  
Assistant Professor  
Department of Botany  
SSES Am's Science College  
Congress Nagar, Nagpur-440012.

S.S.E.S.A's Science College, Congress Nagar, Nagpur  
Department of Botany  
**SKILL BASE PROGRAMME (2019-2020)**

**TIME TABLE**

w.e.f. 16/10/2019

**Certificate Course: Mushroom Cultivation**

Days	Time	
	Theory Paper-Mushroom Cultivation	Practical
Monday	9:15 am-10:00am	-
Tuesday	9:15 am-10:00am	-
Wednesday	-	-
Thursday	-	-
Friday	-	8:30 am-10:00am
Saturday	-	-

*Mahakhode*  
Course Coordinator  
Dr. R.H. Mahakhode  
S.S.E.S.A's Science College,  
**Dr. Rupali H. Mahakhode**,  
Assistant Professor  
Department of Botany  
S.S.E.S.A's Science College  
Congress Nagar, Nagpur-440012.

Shrishivaji Education Society Amravati's Science College, Nagpur  
Department of Botany

Theory/Practical: Theory

SKILL BASE PROGRAMME (2019-2020)  
Certificate Course: Mushroom Cultivation

Dr. R.H. Mahakhode

Attendance Sheet

Sr. No	Name of the Student																			Total	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19
1	Sanniksha Manohar Admane	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
2	Padmabani Ashok K. Dehury	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
3	Sejal Umesh Naitkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
4	Mrunal Mangesh Fadnavis	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
5	Aarya Sarang Chavan	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
6	Dipali Tarachand Chulpar	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
7	Vaishnavi Ashok Ade	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
8	Nidhi Devanand Marwatar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
9	Sakshi Harish Patil	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
10	Khushi Sunil Armarkar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
11	Bhuvan Sanjay Pashine	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
12	Sanket Bhujang Kamble	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
13	Vedant Bulmukund Patwa	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
14	Sanket Pramod Jogi	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
15	Vaibhav Sunil Jaronde	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
16	Samiksha Ravindra Nishane	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
17	Asmita Amrut Wagh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
18	Snehal Utkam Gaikwad	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
19	Rutuja Rajan Meshram	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				
20	Tushar Haridas Pilewan	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P				

Mahakhode  
Dr. Ruball H. Mahakhode  
Assistant Professor  
Department of Botany  
SSES Amravati Science College  
Congress Nagar, Nagpur-40012

Theory/Practical: Practical

SKILL BASE PROGRAMME (2019-2020)

Certificate Course: Mushroom Cultivation

Attendance Sheet

Dr. R. H. Mahakhode

Sr. No	Name of the Student	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Total
1	Samiksha Manohar Admane	P	P	P	P	P	P	P	P													
2	Padmabati Ashok K. Dehury	P	P	P	P	P	P	P	P													
3	Sejal Umesh Nilatkar	P	P	A	P	P	P	P	P													
4	Mrunal Mangesh Fadnavis	P	P	P	P	P	P	P	P													
5	Aarya Sarang Chavhan	P	P	P	P	P	P	P	P													
6	Dipali Tarachand Chulpar	P	P	P	P	P	P	P	P													
7	Vaishnavi Ashok Ade	P	P	P	P	P	P	P	P													
8	Nidhi Devanand Manwarakar	P	P	P	P	A	P	P	P													
9	Sakshi Harish Patil	P	P	P	P	P	P	P	P													
10	Khushi Sunil Armarkar	P	P	P	P	P	P	P	P													
11	Bhuvan Sanjay Pashine	P	P	P	P	P	P	P	P													
12	Sanket Bhujang Kamble	P	P	P	A	P	P	P	P													
13	Vedant Bulmukund Patwa	P	P	P	P	P	P	P	P													
14	Sanket Pramodlogi	P	P	P	P	P	P	P	P													
15	Vaibhav Sunil Jaronde	P	P	P	P	A	P	P	P													
16	Samiksha Ravindra Nishane	P	P	P	P	P	P	P	P													
17	Asmita Amrut Wagh	P	P	P	A	P	P	P	P													
18	Snehal Uttam Gaikwad	P	P	P	P	P	P	P	P													
19	Rutuja Rajan Meshram	P	A	P	P	P	P	P	A													
20	Tushar Haridas Pilewan	P	P	P	P	P	P	P	P													

Dr. Rupali H. Mahakhode  
 Assistant Professor  
 Department of Botany  
 SSES Amr's Science College  
 Congress Nagar, Nagpur-440012

**Certificate Course- Mushroom Cultivation  
Question Paper 2019-20  
Department of Botany**



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shivajiscience\_npg@yahoo.com

Website

**Mushroom Cultivation Certificate Course  
2019-2020**

All the students are hereby informed that the Theory & Practical exam of Mushroom cultivation Certificate Course 2019-2020 will be conducted on 3 Nov, 2020 Tuesday by online mode (objective type). It is mandatory to all the students. Following are some of the instruction which has to be followed while appearing for examination,

**Instructions:**

1. There are Three Sections in this test.
2. Section- 1 is for candidate personal information and instruction related to objective test.
3. Section- 2 consist of 25 theory questions each of which carry 2 marks and all of them are compulsory.
4. section - 3 consists of 20 practical questions which also carry 2 marks each and all of them are compulsory.

**Marking Scheme:**

Section -2 : 25 Questions = 50 marks

Section -3 : 20 Questions = 40 marks

Total Marks : 90 marks.

Maximum Time : 1:30hr. (4:00pm - 5:30pm)

Responses are not accepted after 5:30 PM.

Date: 03/11/2020

Day: Tuesday

\* Required

\* Required

Full Name of candidate ( First Name / Middle Name/ Last Name) \*

Your answer

Class & Group \*

Your answer

Mobile No. \*

Your answer

Email. ID \*

Your answer

Next

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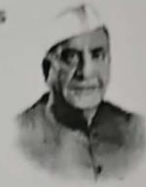


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Webmail

## Mushroom Cultivation Certificate Course 2019-2020

### Theory Question Paper

Theory Questions (Objective Type)  
Total Questions : 25 (2 marks each)  
Maximum Marks : 50

1. Mushrooms are which kind of fruit?

2 points

- a. Mold
- b. Fungus
- c. Algae
- d. Moss

2. *Pleurotus ostreatus* is also known as \_\_\_\_\_ oyster mushroom.

2 points

- a. Fusarium
- b. Pearl
- c. Wood
- d. Platinum

3. To which division does it belong?

2 points

- a. Basidiomycetes
- b. Pteridophyta
- c. Thallophyta
- d. Mollusca

4. Mushroom is:

2 points

- a. Saprophytic fungus
- b. Autotrophic Algae
- c. Heterotrophic fungus
- d. None of the above



5. Mycellium produces white or colored umbrella shaped fruiting bodies called: 2 points

- a. Haphae
- b. Basidiocarp
- c. Annalus
- d. Seta

6. The \_\_\_\_\_ trumpet mushroom is the largest species in the oyster mushroom genus. 2 points

- a. Queen
- b. Jack
- c. King
- d. People

7. The gills on either sides bear club shaped basidia which produce\_\_\_\_\_ 2 points

- a. Basidiocarp
- b. Chloroplasts
- c. funaria
- d. None of these

8. It grows during -----

2 points

- a. Summer season
- b. Winters
- c. Rainy season
- d. In all seasons

9. *Pleurotus ostreatus* is sometimes referred to as the ----- mushroom.

2 points

- a. Tree Oyster mushroom
- b. Reishi mushroom
- c. Shiitake mushroom
- d. Beech mushroom

10. ----- are the fruiting bodies of basidiomycetous fungi.

2 points

- a. Spores
- b. Mycelium
- c. Reishi
- d. Mushroom

11. The poisonous mushrooms are popularly known as \_\_\_\_\_.

2 points

- a. Toadstool
- b. Gill's
- c. Spores
- d. Oyster

12. Mushrooms contain more \_\_\_\_\_ (about 51%) than many other comparable fruits or vegetables.

2 points

- a. Calories
- b. Carbohydrate
- c. Protein
- d. Fats

13. How many species of mushroom are known to be poisonous to humans?

2 points

- a. 50
- b. 100
- c. 200
- d. 500

14. Cap like structure in mushroom is known as \_\_\_\_\_.

2 points

- a. Pileus
- b. Mycelium
- c. Spores
- d. Gills

15. Pileus attached with thread like structure \_\_\_\_\_.

2 points

- a. Mycelia
- b. Oyster
- c. Thread
- d. Cap

16. Oyster is the types of \_\_\_\_\_ mushroom.

2 points

- a. Poisonous
- b. Non-poisonous
- c. Edible
- d. Non-edible

17. Mushrooms are \_\_\_\_\_ in calories.

2 points

- a. Very high
- b. Low
- c. High
- d. All of the above

18. Spores germinate in the form of \_\_\_\_\_.

2 points

- a. Hyphae
- b. Pileus
- c. Gill's
- d. Toadstool

19. In India Oyster mushroom is known as \_\_\_\_\_.

2 points

- a. Reishi
- b. Dhingri
- c. Hyphae
- d. Amanitia

20. Oyster mushroom has the bittersweet aroma of because of .....

2 points

- a. Sulphur
- b. Copper
- c. Benzaldehyde
- d. Chromium

21. What is symptoms of mushroom poisoning?

2 points

- a. Mild nausea
- b. Vomiting
- c. Diarrhea
- d. All of the above

22. Why mushrooms are good for health?

2 points

- a. It helps with constipation
- b. It improves the metabolism
- c. It is rich in vitamins and minerals
- d. All of the above

23. What percentage of water comprises the mushroom?

2 points

- a. 85 - 95%
- b. 1 - 5%
- c. 25%
- d. None of the above

24. Oyster mushrooms are mainly cultivated in large clear \_\_\_\_\_ bags..

2 points

- a. Cotton
- b. Polyethylene
- c. Polyester
- d. Bakelite

25. Which country is the largest producer of mushrooms?

2 points

- a. India
- b. Mexico
- c. China
- d. America

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## Mushroom Cultivation Certificate Course 2019-2020

### Practical Question Paper

Practical Questions ( Objective Type)  
Total Questions : 25 ( 2 marks each )  
Maximum Marks : 50

1. Oyster Mushroom is a -----

2 points

- a) Saprophytic fungus
- b) Autotrophic algae
- c) Heterotrophic fungus
- d) None of these



2. Mushroom mainly grows during -----a)

2 points

- a) Summer
- b) Winter
- c) Rainy
- d) In all seasons

3. Colour of Oyster mushroom is -----

2 points

- a) Pure white
- b) Pink
- c) Brown
- d) All of above

4. Temperature needed for the growth of Oyster mushroom is -----

2 points

- a) 35-40 C
- b) 10-30 C
- c) 7-8 C
- d) 50-60 C

5. Which of the following does not occur during pasteurizing in mushroom cultivation?

2 points

- a) Cooling
- b) Boiling
- c) Chemical method
- d) Stem method

6. How many times can you harvest mushrooms from one bag -----

2 points

- a) 7 times
- b) 10 times
- c) 1 times
- d) 3 times

7. Oyster mushroom is -----

2 points

- a) Low in sodium level
- b) Low in calories
- c) Fat free
- d) All of the above

8. How many days are needed for the incubation /growing unit?

2 points

- a) 10 days
- b) 1 day
- c) 15 days
- d) 30 days

9. How long can wet oyster mushroom be stored?

2 points

- a) 2-3 days
- b) 5-7 days
- c) 10-15 days
- d) 1 month

10. Adsorptive heterotrophic nutrition is exhibited by -----

2 points

- a) Algae
- b) Bryophyte
- c) Gymnosperm
- d) Fungi

11. What is essential for mushroom cultivation?

2 points

- a) Water
- b) Straw
- c) Spawn
- d) Bavestin

12. Grain and mycelium mixture of mushroom is known as \_\_\_\_\_

2 points

- a) Oospore
- b) Spawn
- c) Sporocarp
- d) Ascocarp

13. Vitamin C, D & B are found in \_\_\_\_\_

2 points

- a) Mushroom
- b) Fungi
- c) Albugo
- d) Mucor

14. Straw and spawn ratio in mushroom cultivation is\_\_\_\_\_

2 points

- a) 20:1
- b) 15:5
- c) 20:10
- d) 10:2

15. How much pressure is needed during the method of sterilization in mushroom cultivation?

2 points

- a) 15 lb
- b) 20 lb
- c) 10 lb
- d) 71 b

16. Antioxidant agent found in mushrooms is\_\_\_\_\_

2 points

- a) Vit. C
- b) Selenium
- c) Choline
- d) Manganese

- a) Mold
- b) Basidocarp
- c) Ascocarp
- d) Fungi

18. Agaricus is the name of \_\_\_\_\_

2 points

- a) Bryophytes
- b) Algae
- c) Mushroom
- d) Fungi

19. Mushroom belongs to which class?

2 points

- a) Ascomycetes
- b) Basidiomycetes
- c) Deuteromycetes
- d) Zygomycetes

a) Bryophytes

b) Algae

c) Mushroom

d) Fungi

19. Mushroom belongs to which class?

2 points

a) Ascomycetes

b) Basidiomycetes

c) Deuteromycetes

d) Zygomycetes

20. When young fruiting body is completely enveloped by a thin membrane, it is called \_\_\_\_\_

2 points

a. Mycelium

b. Rhizoids

c. Velum(veil)

d. Septate

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Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

Examination Summer 2020

**SKILL BASED PROGRAMME**

**Certificate Course: Mushroom Cultivation 2019-20**

**Center: S.S.E.S.A's Science College, Congress Nagar, Nagpur**

Date: 03/11/2020

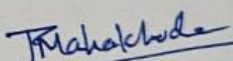
Total Marks: 100

**STATEMENT OF MARKS**

Sr. No.	Name of Students	Theory Marks (50)	Practical Marks (30)	Project Marks (10)	Internal Assessment (10)	Total Marks (100)	Grade
1.	Padmabati Ashok Kumar Dehury	48	30	10	9	98	A
2.	Vedant Balmukund Patwa	36	28	10	10	84	A
3.	Bhuvan Sanjay Pashine	34	29	10	9	82	A
4.	Khushi Sunil Armarkar	34	30	10	10	84	A
5.	Aarya Sarang Chavhan	36	27	10	9	82	A
6.	Samiksha Manohar Admane	38	28	10	10	86	A
7.	Sejal Umesh Nilatkar	38	22	10	9	79	A
8.	Sakshi Harish Patil	44	30	10	9	93	A
9.	Sanket Bhujang Kamble	46	28	10	8	92	A
10.	Mrudul Mangesh Fadnavis	40	28	10	9	87	A
11.	Nidhi Devanand Manwatkar	38	16	10	8	72	A
12.	Tushar Haridas Pillewan	46	29	10	9	94	A



Sr. No.	Name of Students	Theory Marks (50)	Practical Marks (30)	Project Marks (10)	Internal Assessment (10)	Total Marks (100)	Grade
13.	Samiksha Ravindra Nishane	42	30	10	9	91	A
14.	Vaibhav Sunil Jaronde	42	22	10	10	84	A
15.	Vaishnavi Ashok Ade	38	28	10	10	86	A
16.	Sanket Pramod Jogi	42	22	10	8	82	A
17.	Dipali Tarachand Chulpar	42	20	10	10	82	A
18.	Asmita Amrut Wagh	34	26	10	9	79	A
19.	Rutuja Rajan Meshram	42	24	10	9	85	A
20.	Snehal Uttam Gaikwad	44	30	10	9	93	A

  
 Dr. R.H. Mahakhode  
 Course Coordinator  
 Dr. Rupali H. Mahakhode  
 Assistant Professor  
 Department of Botany  
 SSES Amt's Science College  
 Congress Nagar, Nagpur-440012.

S.S.E.S. Amt's Science College, Congress Nagar, Nagpur.

**Department of Botany**  
SKILL BASED PROGRAMME (2019-2020)  
**Certificate Course: Mushroom Cultivation**

**ONE DAYS WORKSHOP**

Notice

Date: 12/02/2020

Department of Botany will be organizing One Day Workshop on "Edible Mushroom Cultivation" and power point presentation by Mr. Abhimanyu Rao Dongarwar, SKY Mushroom, Nagpur for the registered students of Certificate Course under Department of Life Long Learning and Extension, RTMNU, Nagpur for the session 2019-20 on 20th Feb. 2020 respectively. The purpose of workshop is to inculcate Entrepreneurship Skill and Self Employment amongst the students.

Time: 11:30 am

Venue: Conference Hall

*R.H. Mahakhode*

Dr. R.H. Mahakhode  
Course Coordinator

Department of Botany  
Dr. Rupali H. Mahakhode  
Assistant Professor  
Department of Botany  
SSES Amt's Science College  
Congress Nagar, Nagpur-440012

**Shivaji Education Society Amravati's**  
**SCIENCE COLLEGE, Congress Nagar, Nagpur**  
**Department of Botany**  
**Organized**  
**Skill- Based Mushroom Cultivation Certificate Course**  
**Session 2019-20**

**REPORT**

Department of Botany, Shivaji Science College organized one day workshop on "Edible Mushroom Cultivation" on 20<sup>th</sup> Feb. 2020 in the conference hall. Twenty students were registered for this certificate course in the session 2019-20. Mr. Abhimanyu Rao Dongarwar, Expert, Sky Mushrooms, Nagpur inaugurated the workshop and Principal Dr. M. P. Dhore was present as a president of the function.

Mr. Abhimanyu Rao Dongarwar emphasized on entrepreneurship skill development regarding training in the mushroom technique. Principal Dr. M. P. Dhore, guided the students about their overall development by learning several skills in hand on training in mushroom cultivation and applauded the efforts taken by the Dept. of Botany. Dr. R. N. Deshmukh, HOD. Department of Botany guided the students about several benefits of mushroom in their daily life and also given some life learning tips on this occasion.

Dr. Mrs. S. D. Puranik, Convener of the workshop briefed about the lifelong activities and achievements of students benefitted by the workshop and several income opportunities. Dr. Mrs. R. H. Mahakhode Course Coordinator guided the students to inculcate the skill among them. Dr. Mrs. P.S. Tiwari, Mr. Piyush Sharma and Mr. Manish Chinchmalatpure were also present on the dais. Miss. Tanushree Banerjee conducted the proceedings and proposed the vote of thanks.





**Dr. M.P. Dhore, Principal addressing to the students about overall development through skill-based learning programs**



**Dr. R. N. Deshmukh guided the students about the benefits of Mushrooms**



**One Day Workshop on Edible Mushroom Cultivation**

## One Day Workshop on Edible Mushroom Cultivation



*R. Mahakhode*

Dr. R.H. Mahakhode  
Course Coordinator

## **ACTION TAKEN REPORT**

The Department of Botany was conducted Certificate course in Mushroom Cultivation (Skill Based Course) under the Department of Life Long Learning and Extension, RTMU, Nagpur. Twenty students were registered for this certificate course in session 2019-20.

On February 20, 2020, the Department of Botany, Shivaji Science College, Congress Nagar, Nagpur hosted a one-day workshop on "Edible Mushroom Cultivation" in the conference hall. The workshop, inaugurated by Mr. Abhimanyu Rao Dongarwar of Sky Mushrooms and presided over by Principal Dr. M.P. Dhore, focused on developing entrepreneurship skills through mushroom cultivation. Dr. R.N. Deshmukh discussed the benefits of mushrooms and provided practical tips, while Dr. Mrs. S.D. Puranik highlighted the workshop's impact on students' skills and income opportunities. Dr. Mrs. R.H. Mahakhode emphasized skill development, and the event was supported by Dr. Mrs. P.S. Tiwari, Mr. Piyush Sharma, and Mr. Manish Chinchmalatpure, with proceedings conducted by Miss. Tanushree Banerjee.

*R.H. Mahakhode*

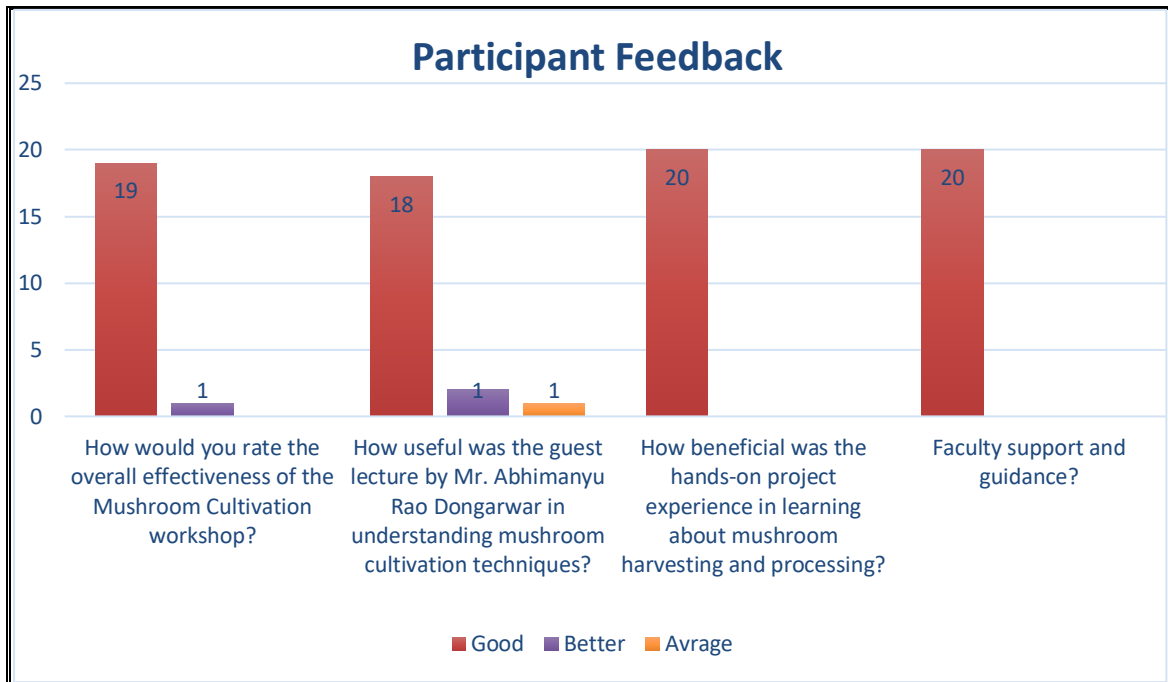
Dr. R.H. Mahakhode  
Course Coordinator  
Dept. of Botany

## FEEDBACK FORM

Sr. No.	Question	Response		
		Good	Better	Average
1)	How would you rate the overall effectiveness of the Mushroom Cultivation workshop?			
2)	How useful was the guest lecture by Mr. Abhimanyu Rao Dongarwar in understanding mushroom cultivation techniques?			
3)	How beneficial was the hands-on project experience in learning about mushroom harvesting and processing?			
4)	Faculty support and guidance?			

*R. Mahakhode*

Dr. R.H. Mahakhode  
Course Coordinator  
Dept. of Botany



*R.H. Mahakhode*

Dr. R.H. Mahakhode  
Course Coordinator  
Dept. of Botany

*R.H. Mahakhode*

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



*R.H. Mahakhode*

Signature of Principal  
Principal  
S.S.E.S.A. Amravati's  
Science College, Nagpur.





## Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

[Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016(Mah. Act No. VI of 2017)]

University Skill Development Centre  
(under Board of Lifelong Learning and Extension)

### Certificate

No. .... 02 .....

Shri/Smt./Ku. .... Vedant Balmukund Patwa ..... is

awarded with Certificate on successful completion of the course titled

..... Mushroom Cultivation ..... in

session .... 2019-20 ..... under Jeevan Shikshan Abhiyan conducted for

45 hours from .... January ..... to .... March ..... by the Board of Lifelong

Learning & Extension in collaboration with Department of Botany,

S.S.E.S. Amt's Science College Congress Nagar, Nagpur, 440012.

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

Total Credits Earned : 01

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

Course Co-ordinator  
SSES Amt's Science College  
Congress Nagar, Nagpur-12

Director  
Board of Lifelong Learning  
and Extension, RTMNU, Nagpur