Shri Sarda Education Society's (A Linguistic Minority Educational Institute)



Smt Radhabai Sarda Arts, Commerce & Science College Anjangaon Surji, Dist - Amravati, Maharashtra NAACAccredited 'A' with CGPA 3.21

Department of Botany

ACADEMIC SESSION 2022-2023

REPORT ON

CERTIFICATE COURSE IN

HERBAL TECHNOLOGY

SMT RADHABAI SARDA ARTS,COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

SESSION: 2022-2023

Permission Letter

To

The Principal
Smt Radhabai Sarda Arts, Commerce And Science College
Anjangaon Surji

Subject: Regarding permission to conduct Certificate Course entitled "Certificate Course in Herbal Technology" during academic session 2022-2023.

Hon'ble Sir

With reference to above subject I request you to grant us permission to conduct the said course in the Department of Botany. The duration of the course will be 3 months. The syllabus of the course is enclosed herewith for your kind consideration. The course will be fruitful for the students keeping in the mind their development for agriculture and global marketing related to herbal technology.

With regards

Date: 0 2 2023

Yours faithfully

R L KULKARNI

SMT RADHABAI SARDA ARTS,COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI

DEPARTMENT OF BOTANY

SYLLABUS

OF

CERTIFICATE COURSE IN HERBAL TECHNOLOGY

SESSION: 2022-2023

Name of the Certificate course: Herbal Technology

Course Objectives:

This subject gives the student the knowledge of basic understanding of herbal drug industry, the quality of raw material, guidelines for quality of herbal drugs, herbal cosmetics, natural sweeteners, nutraceutical etc. The subject also emphasizes on Good Manufacturing Practices (GMP), patenting and regulatory issues of herbal drugs

Upon completion of this course the student should be able to:

- 1. Understand raw material as source of herbal drugs from cultivation to herbal drug product
- 2. Know the WHO and ICH guidelines for evaluation of herbal drugs
- 3. Know the herbal cosmetics, natural sweeteners, nutraceuticals
- 4. Appreciate patenting of herbal drugs, GMP.

Course Learning Outcomes: Knowledge Skills

- 1. An appreciation of the contribution of medicinal plants to traditional and modern medicine and the importance of holistic mode of treatment of the Indian traditional systems of medicine.
- 2. To develop an understanding of the constraints in promotion and marketing of medicinal plants.

Professional and Practical Skills

- 1. Transforming the knowledge into skills for promotion of traditional medicine.
- 2. Developing entrepreneurship skills to establish value addition products, botanical extracts and isolation of bioactive compounds.

Syllabus:

Unit 1: Herbal medicines: history and scope - definition of medical terms - role of medicinal plants in Siddha systems of medicine; cultivation - harvesting - processing - storage - marketing and utilization of medicinal plants.

Unit 2: Pharmacognosy - systematic position medicinal uses of the following herbs in curing various ailments; Tulsi, Ginger, Fenugreek, Indian Goose berry and Ashoka.

Unit 3: Phytochemistry - active principles and methods of their testing - identification and utilization of the medicinal herbs; Catharanthus roseus (cardiotonic), Withania somnifera (drugs acting on nervous system), Clerodendron phlomoides (anti-rheumatic) and Centella asiatica (memory booster).

Unit 4: Analytical pharmacognosy: Drug adulteration - types, methods of drug evaluation - Biological testing of herbal drugs - Phytochemical screening tests for secondary metabolites (alkaloids, flavonoids, steroids, triterpenoids, phenolic compounds)

Unit 5: Medicinal plant banks micro propagation of important species (Withania somnifera, neem and tulsi-Herbal foods-future of pharmacognosy)

Practicals:

- 1. To perform preliminary phytochemical screening of crude drugs.
- 2. Determination of the alcohol content of Asava and Arista
- 3. Evaluation of excipients of natural origin
- 4. Incorporation of prepared and standardized extract in cosmetic formulations like creams, lotions and shampoos and their evaluation.
- 5. Incorporation of prepared and standardized extract in formulations like syrups, mixtures and tablets and their evaluation as per Pharmacopoeial requirements.
- 6. Monograph analysis of herbal drugs from recent Pharmacopoeias
- 7. Determination of Aldehyde content
- 8. Determination of Phenol content
- 9. Determination of total alkaloids

Suggested Readings:

1) Glossary of Indian medicinal plants, R.N.Chopra, S.L.Nayar and I.C.Chopra, 1956. C.S.I.R, New Delhi.

2) The indigenous drugs of India, Kanny, Lall, Dey and Raj Bahadur, 1984. International Boo Distributors.

3) Herbal plants and Drugs Agnes Arber, 1999. Mangal Deep Publications.

4) Ayurvedic drugs and their plant source. V.V. Sivarajan and Balachandran Indra 1994. Oxford IBH publishing Co.

5) Ayurveda and Aromatherapy. Miller, Light and Miller, Bryan, 1998. Banarsidass, Delhi.

6) Principles of Ayurveda, Anne Green, 2000. Thomsons, London.

7) Pharmacognosy, Dr.C.K.Kokate et al. 1999. Nirali Prakashan.

Written Examination: 50 Marks

Practical Examination: 50 Marks

Q.1. Perform Phytochemical Screning tests (Any three). 15

Q.2.Detremination of Aldehyde/Phenol/Alkaloids content. 05

Q.3. Evaluate excipients of natural origin products. 10

Q.4. Preparation and standardization of Syrup/Shampoo/Mixtures. 10

O.5. Viva voce. 05

Q.6. Record book. 05

SMT RADHABAI SARDA ARTS, COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DEPARTMENT OF BOTANY ACADEMIC SESSION: 2022-23

Course Applied For: Certificate Course

Title Of The Course: Herbal Technology

Course Duration: Three Months

Course Outcome

CO-I: Understand the basic concept of Herbal Technology

CO-II:Study of Herbal Drugs.

CO-III: Study of practical skills of Herbal Drugs Preparation

CO-IV: Study of practical skills of Neutraceutical Preparation

Course coordinator

Head

Department of Botony
Smit Radhabai Sarda Arts.
Commerce & Science College
Anjangaon Surji, Dist. Amravati

SMT RADHABAI SARDA ARTS,COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY SESSION 2022-2023 CERTIFICATE COURSE IN HERBAL TECHNOLOGY REPORT

Department of Botany conducted 3 months duration Certificate Course in Herbal Technology from 2nd January 2023 to 4th April 2023. Twenty students participated in this course from class BSC I.During this course field practicals were conducted. 20 students completed their Certificate Course successfully.

Course Coordinator

Head
Head
Department of Botony
Smt Radhabai Sarda Arts,

Commerce & Science College, Anjangaon Surji, Dist. Amravati SMT. RADHABAI SARDA COLLEGE OF ARTS, COMMERCE & SCIENCE ANJANGAON SURJI

SMT RADHABAI SARDA ARTS,COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

SESSION: 2022-2023

Meeting Circular

All faculty members of the department are hereby informed that departmental meeting related to Certificate Course will be held on 15 th December 2022 at 3 pm at the department. You are requested to present for the meeting with some innovative ideas and suggestions for course.

Date: 13/12/2022

PRINCIPAL
SMT. RADHABAI SARDA COLLEGE
OF ARTS, COMMERCE & SCIENCE
ANIANGAON SURJI

Head Head Tonartment of Botony Linabai Sarda Arts,

mmerce & Science College.
Anjangaon Surji, Dist. Amravati

SMT RADHABAI SARDA ARTS, COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

SESSION: 2022-2023

NOTICE

Date: 16/12/2022

All the students of BSc are hereby informed that Department of Botany is going to start the Certificate Course for UG students. This course will be starts from 1st January 2023. Interested students register their name to course coordinator and Head of the department on or before 31st December 2022.

Head

Department of Botony Smt Radhabai Sarda Arts, Commerce & Science College Anjangaon Surji, Dist. Annav

SMT. RADHABAI SARDA COLLEGE OF ARTS, COMMERCE & SCIENCE ANJANGAON SURII

SMT RADHABAI SARDA ARTS, COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

SESSION: 2022-2023

CERTIFICATE COURSE IN HERBAL TECHNOLOGY TIME TABLE

DATE	DAY/TIME	8:00 TO 9:00 AM	9:00 TO 10:00 AM	10:00 TO 11:00 AM
02/01/2023	MON			al (MJD)
03/01/2023	TUE	Theory(RLK)	and the state of t	al(AGT)
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INITIAL MJD RLK AGT

WORKLOAD (24 THEORY+ 01 PRACTICAL)

(12 THEORY + 04 PRACTICAL) (33 THEORY + 09 PRACTICAL)

Course coordinator

PRINCIPAL SMT. RADHABAI KARDA COLLEGE OF ARTS, COMMERCE & SCIENCE ANJANGAON SURJI Head
Mead
Department of Botony
Smi Radhabai Sarda Arts,
mmerce & Science College,
janyaon Surji, Dist, Amravati

SMT RADHABAI SARDA ARTS,COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

SESSION: 2022-2023

CERTIFICATE COURSE IN HERBAL TECHNOLOGY

LIST OF ENROLLED STUDENTS

SR NO	NAME OF STUDENT	CLASS	SIGNATURE	REMARK
1	AALIYA FIRDOUSE KAREEM SHAH	BSC I	daliya	
2	ACHAL KAPIL DAMARE	BSC I	A.Damee	
3	MOHD SUFIYAN MOHD ZAKIR	BSC I	Sufoyan	100
4	NIKITA PREMDAS UKE	BSC I	Reke.	
5	PRACHI SUDHAKAR THORAT	BSC I	Albat	
6	PRANJALI RAVINDRA CHOPKAR	BSC I	P.R. Chopker	
7	PRANALI PRAMOD RISODKAR	BSC I	P. P. Risodkar.	
8	PRATIKSHA DYANESHWAR BADAN	BSC I		
9	RUTUJA SANJAY BAWANE	BSCI	Rouge .	
10	SABA SAHER MOHD SABIR	BSC I	Sahes	
11	SADIYA KHANAM ZABIULLAH KHAN	BSC I	Goeding)	
12	SAKSHI RAJENDRA KHADE	BSC I	Skhade	
13	SHRIHARI MILIND MALDHURE	BSC I	Smallhune.	
14	SHRIJA VILASRAO KADU	BSC I		142A
15	SNEHA GAJANAN INGALE	BSC I		
16	SNEHAL SUDHAKAR MASURKAR	BSC I	amas mekare	
17	SWITI PRAVIN BOCHARE	BSC I	Bochare	
18	TANZEELA KHANAM	BSC I	(Khoin)	

	MEHBOOB KHAN		
19	TAUQEER KHAN JAWED KHAN	BSC I	four.
20	TEJSVINI BHARAT RANGIRE	BSC I	Escargisa_

Course coordinator

Head
Head
Head
Operatment of Botony
Sim Radhabai Sarda Arts.
Immerce & Science Course
Immerce & Surji, Dist. Annayat

PRINCIPAL
SMT. RADMABAI SARDA COLLEGE
OF ARTS, COMMERCE & SCIENCE
ANJANGAON SURJI

SMT RADHABAI SARDA ARTS, COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

SESSION: 2022-2023

CERTIFICATE COURSE IN HERBAL TECHNOLOGY

ATTENDANCE SHEET

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RUTUJA SANJAY BAWANE	PRATIKSHA DYANESHWAR BADAN	PRANALI PRAMOD RISODKAR	PRANJALI RAVINDRA CHOPKAR	PRACHI SUDHAKAR THORAT	NIKITA PREMDAS UKE	MOHD SUFIYAN MOHD ZAKIR	ACHAL KAPIL DAMARE	AALIYA FIRDOUSE KAREEM SHAH	STUDENT	NAMEOF
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SMT RADHABAI SARDA ARTS,COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

SESSION: 2022-2023

NOTICE

Date: 23/03/2023

Department of Botony
SmcRadhabai Sarda Arts,
Commerce & Science College,
Anjangaon Surji, Dist. Aniravati

All students who are enrolled for Certificate Course in Herbal Technology are hereby informed that their Theory and Practical Examination will be held as the following schedule

DATE	DAY	E THOERY/PRACTICAL
5/04/2023	WED 8 TO 11	AM THEORY
6/04/2023	THU 8 TO 12	AM PRACTICAL

Course coordinator

PRINCIPAL
SMT. RADHABAI SARDA COLLEGE
OF ARTS, COMMERCE & SCIENCE
ANJANGAON SURJ

SMT RADHABAI SARDA ARTS,COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

SESSION :2022-2023

CERTIFICATE COURSE IN HERBAL TECHNOLOGY PRACTICAL EXAMINATION

TIME – 4 Hours		Max Marks – 50
Q.1. Perform Phytochemical Screning tests (Any three).	15	
Q.2.Detremination of Aldehyde/Phenol/Alkaloids content.	05	
Q.3. Evaluate excipients of natural origin products.	10	And Andrews
Q.4.Preparation and standardization of Syrup/Shampoo/Mixtures.	10	
Q.5. Viva voce.	05	
Q.6. Record book.	05	

External Examiner

Internal Examiner

SMT RADHABAI SARDA ARTS, COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

SESSION: 2022-2023

CERTIFICATE COURSE IN HERBAL TECHNOLOGY THEORY EXAMINATION

TIME - 3 Hours

MAX MARKS- 50

Note: 1. There are 5 questions

- Q.1. ANSWER IN ONE SENTENCE (ANY FIVE) 5
- A) Herbal drugs
- B) Siddha
- C) Ayurveda
- D) Pharmacognosy
- E) Alkaloids
- F) Flavonoids
- Q.2. EXPLAIN:(ANY THREE) 15
- A) Siddha System
- B) Processing of Medicinal plants
- C) Uses of Tulsi
- D) Drug adulteration
- E) Micropropagation
- Q.3. DESCRIBE (ANY THREE) 15
- A) Ayurveda System
- B) Uses Of Ginger
- C) Identification And Utilisation Of Withania
- D) Marketing Of Medicinal Plants
- E) History And Scope Of Herbal Medicine
- Q.4. EXPLAIN (ANY THREE) 15
- A) Micropropagation Of Neem
- B) Medicinal Plant Banks
- C) Phytochemmical Screening Tests Of Alkaloids And Flavonoids
- D) Identification And Utilisation Of Centella
- E) Methods Of Drug Evaluation

SMT RADHABAI SARDA ARTS, COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

SESSION: 2022-2023

CERTIFICATE COURSE IN HERBAL TECHNOLOGY THEORY EXAMINATION ATTENDANCE SHEET DATE: 05/04/2023

SR NO	ROLL NO	NAME OF STUDENT	SIGNATURE
1	BOT/C/1	AALIYA FIRDOUSE KAREEM SHAH	daliya
2	BOT/C/2	ACHAL KAPIL DAMARE	A.Dampe
3	BOT/C/3	MOHD SUFIYAN MOHD ZAKIR	Sufujaro'
4	BOT/C/4	NIKITA PREMDAS UKE	Reke .
5	BOT/C/5	PRACHI SUDHAKAR THORAT	Glasal
6	BOT/C/6	PRANJALI RAVINDRA CHOPKAR	P. R. chopker
7	BOT/C/7	PRANALI PRAMOD RISODKAR	P. P. Risodkar.
8	BOT/C/8	PRATIKSHA DYANESHWAR BADAN	P.D.B
9	BOT/C/9	RUTUJA SANJAY BAWANE	Rolland.
10	BOT/C/10	SABA SAHER MOHD SABIR	Sahes
11	BOT/C/11	SADIYA KHANAM ZABIULLAH KHAN	Scelista.
12	BOT/C/12	SAKSHI RAJENDRA KHADE	Schade
13	BOT/C/13	SHRIHARI MILIND MALDHURE	Braddhurre.
14	BOT/C/14	SHRIJA VILASRAO KADU	25
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17	BOT/C/17	SWITI PRAVIN BOCHARE	Bocharoe
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20	BOT/C/20	TEJSVINI BHARAT RANGIRE	@sangise

Course coordinator

PRINCIPAL

SMT. RADHABAI SARDA COLLEGE OF ARTS, COMMERCE & SCIENCE ANJANGAON SURJI Head Head Department of Botony on Radhabal Sarda Art

Smt.Radhabai Sarda Arts, Commerce & Science College, Collangaon Surji, Dist. Amravati

SMT RADHABAI SARDA ARTS, COMMERCE AND SCIENCE COLLEGE ANJANGAON SURJI DIST AMRAVATI DEPARTMENT OF BOTANY

CECCION 2022 2022

SESSION: 2022-2023

CERTIFICATE COURSE IN HERBAL TECHNOLOGY PRCTICAL EXAMINATION ATTENDANCE SHEET DATE: 06/04/2023

SRNO	ROLL NO	NAME OF STUDENT	SIGNATURE
1	BOT/C/1	AALIYA FIRDOUSE KAREEM SHAH	deligg
2	BOT/C/2	ACHAL KAPIL DAMARE	A. Damee
3	BOT/C/3	MOHD SUFIYAN MOHD ZAKIR	Sufiyar
4	BOT/C/4	NIKITA PREMDAS UKE	Peker-
5	BOT/C/5	PRACHI SUDHAKAR THORAT	
6	BOT/C/6	PRANJALI RAVINDRA CHOPKAR	P.R. chopker
7	BOT/C/7	PRANALI PRAMOD RISODKAR	P.P. Risodkar.
8	BOT/C/8	PRATIKSHA DYANESHWAR BADAN	P.D.B
9	BOT/C/9	RUTUJA SANJAY BAWANE	(ह्याव्रं)
10	BOT/C/10	SABA SAHER MOHD SABIR	Sahes
11	BOT/C/11	SADIYA KHANAM ZABIULLAH KHAN	Leeley (a)
12	BOT/C/12	SAKSHI RAJENDRA KHADE	schade
13	BOT/C/13	SHRIHARI MILIND MALDHURE	Bradhure.
14	BOT/C/14	SHRIJA VILASRAO KADU	Son
15	BOT/C/15	SNEHA GAJANAN INGALE	SUL
16	BOT/C/16	SNEHAL SUDHAKAR MASURKAR	Brosnekare
17	BOT/C/17	SWITI PRAVIN BOCHARE	Bochware
18	BOT/C/18	TANZEELA KHANAM MEHBOOB KHAN	Their
19	BOT/C/19	TAUQEER KHAN JAWED KHAN	- Jaum'
20	BOT/C/20	TEJSVINI BHARAT RANGIRE	<u> </u>

External Examiner

Internal Examiner

SMT RADHABAI SARDA ARTS, COMMERCE ANND SCIENCE COLLEGE ANJANGAON SURJI

DEPARTMENT OF BOTANY

ACADEMIC SESSION: 2022-23

Course applied for: Certificate course

Title of the course: Herbal Technolgy

Course duration: Three months

Result file

Sr No	Name of the participant	Enrollment no	Out of Marks	Marks obtained
01	AALIYA FIRDOUSE KAREEM SHAH	2023S1	100	79
02	ACHAL KAPIL DAMARE	2023S2	100	77
03	MOHD SUFIYAN MOHD ZAKIR	2023S3	100	80
04	NIKITA PREMDAS UKE	2023S4	100	72
05	PRACHI SUDHAKAR THORAT	2023S5	100	71
06	PRANJALI RAVINDRA CHOPKAR	2023S6	100	67
07	PRANALI PRAMOD RISODKAR	2023S7	100	62
08	PRATIKSHA DYANESHWAR BADAN	2023S8	100	65
09	RUTUJA SANJAY BAWANE	2023S9	100	73
10	SABA SAHER	2023S10	100	76

	MOHD SABIR			
11	SADIYA	2023S11	100	65
	KHANAM		The state of the s	
	ZABIULLAH			
	KHAN			gL
12	SAKSHI	2023S12	100	62
	RAJENDRA			, , , , , , , , , , , , , , , , , , ,
	KHADE		de la	
13	SHRIHARI	2023S13	100	68
	MILIND			
	MALDHURE	The special section is		
14	SHRIJA	2023S14	100	67
	VILASRAO KADU			
15	SNEHA GAJANAN	2023S15	100	72
	INGALE			his Propose Sin.
16	SNEHAL	2023S16	100	70
	SUDHAKAR			
	MASURKAR			all cale
17	SWITI PRAVIN	2023S17	100	80
	BOCHARE			
18	TANZEELA	2023 S18	100	67
100	KHANAM			
	MEHBOOB KHAN			Pals Alle
19	TAUQEER KHAN	2023S19	100	69
	JAWED KHAN	in a second of history day		
20	TEJSVINI	2023S20	100	71
	BHARAT			
2	RANGIRE			The Asset of the State of the

Course co-ordinator

PRINTIPAL
SMT. RADHABAY SARDA COLLEGE
OF ARTS, COMMERCE & SCIENCE
ANJANGAON SURJI

Head
Head
Department of Botony
Smt Radhabai Sarda Arts,
Commerce & Science College
Anjangaun Surji, Dist. Amrayan



Shri Sarda Education Society's

(A Linguistic Minority Educational Institute)

SMT RADHABAI SARDA ARTS COMMERCE & SCIENCE COLLEGE

ANJANGAON SURJI DIST AMRAVATI

DEPARTMENT OF BOTANY Certificate

This is to certify that Aaliga Firsbuse Kareen Shah.

successfully completed Certificate Course entitled "Herbal Technology" conducted by the Department of Botany in the academic session 2022-2023 from 02/01/2023 to 04/04/2023 at Smt Radhabai Sarda Arts, Commerce & Science College

Anjangaon Surji Dist Amravati

Convener To S

nepartment of Botony Heac

Sina Radhabai Sarda Arts, mmerce & Science College,

> SMT. RADHABAINAID OF ARTS, COMMERCE & SCIENCE

Shri Sarda Education Society's

(A Linguistic Minority Educational Institute)

Smt Radhabai Sarda Arts, Commerce & Science College Anjangaon Surji, Dist Amravati - 444705

Application Form for Certificate Course

(Academic Session: 2022-2023)
Application Form No.:
Applicant's Name: Tejasvini Bharat Rangiso
Father's Name: Bhakat Mangel Rangke
Permanent Address: = awalapwi, par hio
District Ambavat ta Achalpur.
District: Amsavat State: Mahastasta Pin Code: 144705
Email ID: Hold College
Email ID: <u>Léjasvin Fangire 828 @ grail. com</u> ,
Phone No./Mobile No.: Sender:
Gender: Male Female Data of Riville
Date of Birth: 26/07/2004
Aadhaar Card No. 5 27171636 171
Name of the Department: 130-fahy
Class: 135 C=TSection: TCBZ
Course Applied For: Value Added/Certificate/Bridge Course/Add-on Program
Date of Admission in College: 11-07-707
ID Number: 3,9 4 6
Category: OPEN OBC V SC ST NTO
Languages Known: Marathi Hindi Finglish
Title of the Course: Hesbal technology
[] 이 사람들이 하는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 사용되었다. 그리는 사람들이 사람들이 사용되었다. 그는 사용하는 그는 사용하는 사용하는 사용하는 사용하는 이 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는
N.B.: I Certify that the information I have given in this application is complete and
information grounds for expulsion.