



UNIVERSITY OF JAMMU

(NAAC ACCREDITED 'A' GRADE UNIVERSITY)
Baba Sahib Ambedkar Road, Jammu-180006 (J&K)

Academic Section

Email: academicsectionju14@gmail.com

NOTIFICATION (22/Sept./Adp/46)

It is hereby notified for the information of all concerned that the Vice-Chancellor, in anticipation of the approval of the Academic Council, is pleased to authorize the adoption of the Syllabi and Courses of Study in the subject of **Arabic** of Semesters **Ist** and **IInd** for **Four Year Under Graduate Programme** under the **Choice Based Credit System** as per **NEP-2020** (as given in the annexure) for the examinations to be held in the years as per the details given below:

Subject	Semester	for the examination to be held in the years
Arabic	Semester-I Semester-II	December 2022, 2023 and 2024 May 2023, 2024 and 2025

The Syllabi of the courses is available on the University website: www.jammuuniversity.ac.in

Sd/-
DEAN ACADEMIC AFFAIRS

No. F. Acd/II/22/ 6851-6880

Dated: 27-9-2022

Copy for information and necessary action to:

1. Special Secretary to the Vice-Chancellor, University of Jammu for information of Hon'ble Vice-Chancellor
2. Dean, Faculty of Arts
3. Convener, Board of Studies in Persian and Arabic, Govt. Degree College, Baderwah.
4. Sr. P.A. to the Controller of Examinations
5. All members of the Board of Studies
6. Confidential Assistant to the Controller of Examinations
7. I/C Director, Computer Centre, University of Jammu
8. Deputy Registrar/Asst. Registrar (Conf. Exams. UG/ Exam Eval Non-Prof/CDC)
9. Incharge, University Website for Uploading of the notification.

Sumitashamp
Deputy Registrar (Academic)

27/9
27/9
27/9/22

University of Jammu

Established in 1969

Accredited Grade 'A+' by NAAC

CHOICE BASED CREDIT SYSTEM (CBCS) SYLLABI FOR
Bachelor of Arts in Arabic under Jammu University
A New Syllabi according to NEP 2020 (B.A. Semester 1st and 2nd
(Major/ Minor/ Multidisciplinary Courses)
From the Academic Session 2022-2023 and onwards
University of Jammu, Jammu. 180006

Board of Studies


Convener.

University of Jammu

Department of Arabic

Syllabus for Under-Graduate (4 years Degree Programme)

Under CBCS as per NEP Framework 2020

Major (Arabic)

Semester: I (Dec. 2022-2023 & 2024)

Course Name: *Elementary Arabic Text & Grammar-I*

Course Code: UMJART-101

Duration of Exam: 03 Hours

Credits: 04

Total Marks: 100

Internal Assessment: 15

External: 60

Tutorial/ Viva: 25

(i) Continuous Assessment-10 (ii) Final Exam-15,

Course Objectives:

1. Learner will understand the origin, history and importance of Arabic language
2. The learners will become accurate and efficient in using a language.
3. Improves fluency in the language.
4. To speak, read and write the language more efficiently.

Course Learning Outcome:

The students will be able to:

- a) Recognise, read and write Arabic Alphabets
- b) Read short and simple sentences in Arabic.
- c) Use basic interrogative sentences in Arabic.
- d) Utter basic vocabulary of objects around him/her in Arabic.
- e) Write Arabic numerals.

Unit-I : Introduction to Arabic Language and the Arab World

1. Origin & Development of Arabic language.
2. Salient features of Arabic language.
3. Importance and relevance of Arabic language in contemporary world.
4. Introduction to Arab World, (Briefly).

Unit-II: Arabic Text

1. Arabic text from the book "Madinah Arabic Reader" Lesson 1 to 7 (Vol-I)

Unit-III: Arabic Text

1. Arabic text from the book "Madinah Arabic Reader" Lesson 8 to 10 (Vol-I)
2. Arabic text from the book "Madinah Arabic Reader" Lesson 1 to 4 (Vol-II)

Unit-IV: Elementary Grammar

1. حروف الهجاء، (نطقاً وكتابة)
2. حروف العلة والحروف الصحيحة
3. الحروف القمرية والشمسية
4. الحركات والإعراب
5. الكلمة وأقسامها: اسم، فعل، حرف
6. المذكر والمؤنث
7. المعرفة والنكرة
8. أسماء الإشارة
9. الضمائر المتصلة والمنفصلة (بنون تفاصيل)
10. الفعل الماضي والمضارع والأمر
11. الحروف الجازية: (كثيرة الاستخدام)

University of Jammu

Department of Arabic

Syllabus for Under-Graduate (4 years Degree Programme)

Under CBCS as per NEP Framework 2020

Major (Arabic)

Semester: I (Dec. 2022-2023 & 2024)

Course Name: *Elementary Arabic Text & Grammar-1*

Course Code: UMJART-101

Duration of Exam: 03 Hours

Credits: 04

Total Marks: 100

Internal Assessment: 15

External: 60

Tutorial/ Viva: 25

Prescribed Book:

1. The Arab: A Short History by Philip K. Hitt. Red Globe Press, 2002
2. Glimpses of Modern Arab World by A. Basheer Ahmad Jamali-Marak Publishers, Delhi, 2005
3. Importance of the Arabic Language Guide [2021] by www.importanceoflanguages.com
4. Teach Yourself Arabic: Prof. S. A. Rehman, Goodword Books New Delhi.
5. Madinah Arabic Reader, Part-1 by V. Abdur Rahim- Published by Goodwords Books New Delhi, 2012
6. تعلم الكتابة (من الجزء الأول إلى الثالث) تميم أحمد و محفوظ نرحمن، ط. Repute Infotech & Enterprises Ltd, Chennai-2011
7. العربية للعالم (سلسلة في تعليم اللغة العربية للناطقين بلغات خري) الكتاب لأول، د. حسن بن محمد الثمراني- جامعة الملك سعود، المملكة العربية السعودية- 2010.

Recommended books:

- A practical Approach to the Arabic Language: Prof. W. A. Nadwi, vol.1, New Delhi
- Essential Arabic (ما يلزم من العربية): Prof. R. I. Faynan, Goodword Books, New Delhi
- Learn Arabic the easy way: Dr Amir Jamal, New Delhi
- الجديد في العربية: د. إحسان الرحمن، نيو دلهي
- الممتاز في الحوارات اليومية لغير الناطقين بالعربية، المستوى الأول - مركز "بيسا" لتعليم العلوم الإسلامية و اللغة العربية

Note for Teachers:

- The teacher should help students in writing the Arabic letters again and again.
- When a student has learnt how to write the Arabic letters, he/she may be given dictation
- After memorizing vocabulary, the teacher should help students practice these words in oral expression.
- The teacher should help the students in constructing simple sentences using basic vocabulary.
- The student should practice how to write Arabic numerals as well as to frame
- Simple questions in Arabic.
- The teacher should constitute group of students for conversation with each other to practice the conversation well.

INSTRUCTIONS FOR THE PAPER SETTER

The paper of end semester examination will be of two Sections A & B.

Section A: It will comprise of four (4) short questions of 12 marks covering all four units with equal weightage to all units. All compulsory (4×3=12)

Section B: It will be comprise of eight (8) long type questions (four to be attempted) of 12 marks each covering all the units. The students will have the Internal choice. (4×12=48)

The time duration of end semester examination will be three (3) hour.

(Note) The Viva Voca Test will be conducted by the Head of the department/concerned teacher (25)

University of Jammu

Department of Arabic

Syllabus for Under-Graduate (4 years Degree Programme)

Under CBCS as per NEP Framework 2020

Minor (Arabic)

Semester-I (Dec. 2022-2023 & 2024)

Course Name: *Elementary Arabic Text & Grammar-I*

Course Code: UMIART-102

Duration of Exam: 03 Hours

Credit: 04

Total Marks: 100

Internal Assessment: 15

External: 60

Tutorial/ Viva: 25

Continuous Ass-10, Final Examination-15

Course Objectives:

1. Learner will understand the origin, history and importance of Arabic language. The learners will become accurate and efficient in using a language.
2. Improves fluency in the language.
3. To speak, read and write the language more efficiently.

Course Learning Outcome:

The students will be able to:

- f) Recognise, read and write Arabic Alphabets.
- g) Read short and simple sentences in Arabic.
- h) Use basic interrogative sentences in Arabic.
- i) Utter basic vocabulary of objects around him/her in Arabic.
- j) Write Arabic numerals.

Unit-I : Introduction to Arabic Language and the Arab World

5. Origin & Development of Arabic language.
6. Salient features of Arabic language.
7. Importance and relevance of Arabic language in contemporary world.
8. Introduction to Arab World, (Briefly).

Unit-II: Arabic Text

2. Arabic text: from the book "Madinah Arabic Reader" Lesson 1 to 7 (Vol-I)

Unit-III: Arabic Text

2. Arabic text from the book "Madinah Arabic Reader" Lesson 8 to 10 (Vol-I)
3. Arabic text from the book "Madinah Arabic Reader" Lesson 1 to 4 (Vol-II)

Unit-IV: Elementary Grammar

حروف الهجاء، (نطقاً وكتابة)	.12
حروف العلة والحروف الصحيحة	.13
الحروف القمرية والشمسية	.14
الحركات والإعراب	.15
الكلمة وأقسامها : اسم، فعل، حرف	.16
المذكر والمؤنث	.17
المعرفة والنكرة	.18
أسماء الإشارة	.19
الضامات المتصلة والمنفصلة (بنون تفصيل)	.20
الفعل الماضي والمضارع والأمر	.21
الحروف الجارزة (كثيرة الاستخدام)	.22

University of Jammu

Department of Arabic

Syllabus for Under-Graduate (4 years Degree Programme)

Under CBCS as per NEP Framework 2020

Minor (Arabic)

Semester-I (Dec. 2022-2023 & 2024)

Course Name: *Elementary Arabic Text & Grammar-1*

Course Code: UMIART-102

Duration of Exam: 03 Hours

Credit: 04

Total Marks: 100

Internal Assessment: 15

External: 60

Tutorial/ Viva: 25

Prescribed Book:

8. The Arab: A Short History by Philip K. Hitti, Red Globe Press, 2002
9. Glimpses of Modern Arab World by A. Basheer Ahmad Jamali-Manak Publishers, Delh., 2006
10. Importance of the Arabic Language Guide [2021] by www.importanceoflanguages.com
11. Teach Yourself Arabic: Prof. S. A. Rehman, Goodword Books New Delhi.
12. Madinah Arabic Reader, Part-1 by V. Abdur Rahim- Published by Goodwords Books New Delhi, 2012
13. تعلم الكتابة (من الجزء الأول إلى الثالث) شميم أحمد و محفوظ لرحسن, ط. Repute Infotech & Enterprises Ltd, Chennai-2011
14. العربية للعالم (سلسلة في تعليم اللغة العربية للناطقين بلغات أخرى) الكتاب لأول، د. حسن بن محمد التمراني- جامعة الملك سعود، المملكة العربية السعودية- 2010.

Recommended books:

- A practical Approach to the Arabic Language: Prof. W. A. Nadwi, vol.1, New Delhi
- Essential Arabic (ما يلزم من العربية): Prof. R. I. Faynan, Goodword Books, New Delhi
- Learn Arabic the easy way: Dr Amir Jamal, New Delhi

• الجديد في العربية: د. إحسان الرحمن، نيو دهي

• الممتاز في الحوارات اليومية لغير الناطقين بالعربية، المستوى الأول. مركز "بيما" لتعليم العلوم الإسلامية و اللغة العربية

Note for Teachers:

- The teacher should help students in writing the Arabic letters again and again.
- When a student has learnt how to write the Arabic letters, he/she may be given dictation
- After memorizing vocabulary, the teacher should help students practice these words in oral expression.
- The teacher should help the students in constructing simple sentences using basic vocabulary.
- The student should practice how to write Arabic numerals as well as to frame
- Simple questions in Arabic.
- The teacher should constitute group of students for conversation with each other to practice the conversation well.

INSTRUCTIONS FOR THE PAPER SETTER

The paper of end semester examination will be of two Sections A & B.

Section A: It will comprise of four (4) short questions of 12 marks covering all four units with equal weightage to all units. All compulsory (4×3=12)

Section B: It will be comprise of eight (8) long type questions (four to be attempted) of 12 marks each covering all the units. The students will have the Internal choice. (4×12=48)

The time duration of end semester examination will be three (3) hour.

(Note) The Viva Voca Test will be conducted by the Head of the department/concerned teacher (25)



University of Jammu

Department of Arabic

Syllabus for Under-Graduate (4 years Degree Programme)

Under CBCS as per NEP Framework 2020

Multidisciplinary (Arabic)

Semester: I (Dec. 2022-2023 & 2024)

Course Name: *Elementary Arabic -1*

Course Code: UMDART-103

Duration of Exam: 03 Hours

Credits: 03

Total Marks: 75

Internal Assessment: 15

External: 60

References:

History of the Arabs, P.K. Hitti (Revised 10th edition), Palgrave Macmillan, London-2002

Web Sources:

Madina Arabic Reader/Arabic/ Arab Culture

<http://www.pdfdrive.com>

<http://guide.lib.umicr.edu/NE/ANE>

<http://www.forcharn.edu/halsall/islam/islambook.html>

<http://www.columbia.edu/cu/web/indiv/mideast/cuvlm/>

<http://www.uga.edu/islam/>

INSTRUCTIONS FOR THE PAPER SETTER

The paper of end semester examination will be of two Sections A & B.

Section A: It will comprise of four (4) short questions of 12 marks covering all four units with equal weightage to all units. All compulsory (4×3=12)

Section B: It will be comprise of eight (8) long type questions (four to be attempted) of 12 marks each covering all the units. The students will have the Internal choice. (4×12=48)

The time duration of end semester examination will be three (3) hour.

(Note) The Viva Voca Test will be conducted by the Head of the department/concerned teacher (25)



University of Jammu

Department of Arabic

Syllabus for Under-Graduate (4 years Degree Programme)

Under CBCS as per NEP Framework 2020

Skill Enhancement Course (SEC)

Semester: I (Dec. 2022-2023 & 2024)

Course Name: Arabic Typing, Composing & Setting	Credits :	02
Course Code: USEART-104	Total Marks:	50
Duration of Exam: 2 ^{1/2} Hours	Internal Assessment: 10	External: 40

Course Objectives:

1. To make students to get basic knowledge about using computer.
2. To make students to know about data collecting, processing and designing.
3. To acquaint learner about typing in Arabic script.
4. To aware students about different computer programs.

Course Learning Outcome:

The students will be able to:

- a) Use and operate computer.
- b) Collect data, process and design.
- c) Type and compose Arabic script.
- d) Get aware about different computer programs.

The paper will comprise of the following 3 Units:-

Unit - I

1. تعريف مفصل عن الكمبيوتر وأجهزة الداخلية والخارجية

Detailed introduction of Computer and other related devices

Computer Terminology

2. مصطلحات الحاسوب

Unit - II

Introduction and use of Desktop and Taskbar

مكونات سطح المكتب وشريط المهام

Unit - III

Introduction and use of M.S Word

تعريف عن برنامج ام ايس ورد واستخدامه

Use of Arabic Keyboard

استخدام لوحة المفاتيح العربية

Recommended Books:

1. PC fone: Arabic Typing Tutor, Version 3.3
2. Arabic Typing: Kevin Newton, USA
3. Arabic Computer Dictionary Ed. Ernest Kay Rout ledge and Kegan Pal, London
4. معجم مصطلحات علوم الكمبيوتر د. عبد الحسن الحسيني دار العلوم، بيروت

INSTRUCTIONS FOR THE PAPER SETTER

- The paper of end semester examination will be of two Sections A & B.

Section A: It will comprise of four (4) short questions of 2^{1/2} marks covering all Units/Syllabi with equal weightage to all units. All compulsory (4×2^{1/2}=10)

Section B: It will be comprise of six (6) long type questions (Three to be attempted) of 10 marks each covering all the units. The students will have the Internal choice. (3×10=30)

The time duration of end semester examination will be 2^{1/2} hour.

University of Jammu

Department of Arabic

Syllabus for Under-Graduate (4 years Degree Programme)
Under CBCS as per NEP Framework 2020

Major (Arabic)

Semester: II (May 2023-2024 & 2025)

Course Name: *Elementary Arabic Text & Grammar-II*

Course Code: UMJART-201

Duration of Exam: 03 Hours

Credits: 04

Total Marks: 100

Internal Assessment: 15

External: 60

Tutorial/ Viva: 25

Continuous Assmt-10, Final Exam-15

Course Objectives:

- The students will learn the basic rules of Arabic grammar (Syntax & Morphology)
- Will learn making basic conversations in Arabic Language.
- Will learn to read basic text of Arabic language with minimal errors.

Course Learning Outcome:

- Acquire the basic knowledge of the structure of Syntax and Morphology in Arabic;
- understand the grammatical patterns and awareness of grammatical errors in the text.
- The students will also be able to make basic conversation in the language.

Unit-I: Arabic text

Arabic Text from the book "Madinah Arabic Reader Vol -II by V. Abdul Rahim" from (lesson 5-to 13)

Unit-II: Arabic Text

Arabic Text from the book "Madinah Arabic Reader Vol -III by V. Abdul Rahim" from (lesson 1- to 10)

Unit-III: Applied Arabic Grammar (Syntax)

1. المركبات (التوصيفي والإضافي)
2. الجملة الاسمية (المبتدأ والخبر)
3. الجملة الفعلية (الفعل وانفاعل والمفعول)
4. أقسام الإسم إلى المفرد والمتنقح والجمع
5. أقسام الجمع (السام والمكسر)
6. النكرة والمعرفة (مع الأقسام)
7. المذكر والمؤنث (مع الأقسام)
8. الإعراب بالحركة والحروف

Unit-IV: Applied Arabic Grammar (Morphology)

1. أقسام الفعل (الماضي والمضارع والأمر)
2. تصريف الفعل الماضي المثبت (المعروف والمجهول) الثلاثي: فَعَلَ، فَعِلَ، فَعُلَ
3. تصريف الفعل الماضي المنفي (المعروف والمجهول) الثلاثي: مَا فَعَلَ، مَا فَعِلَ، مَا فَعُلَ
4. تصريف الفعل المضارع المثبت (المعروف والمجهول) الثلاثي: يَفْعَلُ، يَفْعَلُونَ، يَفْعَلُونَ
5. تصريف الفعل المضارع المنفي (المعروف والمجهول) الثلاثي: لَا يَفْعَلُ، لَا يَفْعَلُونَ، لَا يَفْعَلُونَ
6. تصريف فِعْر الأَمْر
7. تصريف فِعْر النَّهْي
8. الأفعال الخمسة: يَفْعَلُونَ، يَفْعَلُونَ، يَفْعَلُونَ، يَفْعَلُونَ، يَفْعَلُونَ



University of Jammu

Department of Arabic

Syllabus for Under-Graduate (4 years Degree Programme)

Under CBCS as per NEP Framework 2020

Minor (Arabic)

Semester-II (May 2023-2024 & 2025)

Course Name: *Elementary Arabic Text & Grammar-II*

Course Code: UMIART-202

Duration of Exam: 03 Hours

Credit: 04

Total Marks: 100

Internal Assessment: 15

External: 60

Tutorial/ Viva: 25

Continuous Assmt. - 10, Final Exam - 15

Course Objectives:

- The students will learn the basic rules of Arabic grammar (Syntax & Morphology)
- Will learn making basic conversations in Arabic Language.
- Will learn to read basic text of Arabic language with minimal errors.

Course Learning Outcome:

- Acquire the basic knowledge of the structure of Syntax and Morphology in Arabic;
- understand the grammatical patterns and awareness of grammatical errors in the text.
- The students will also be able to make basic conversation in the language.

Unit-I: Arabic text

Arabic Text from the book "Madinah Arabic Reader Vol -II by V. Abdul Rahim" from (lesson 5-to 13)

Unit-II: Arabic Text

Arabic Text from the book "Madinah Arabic Reader Vol -III by V. Abdul Rahim" from (lesson 1- to 10)

Unit-III: Applied Arabic Grammar (Syntax)

9. المركبات (لتوسيعي والإضافي)
10. الجملة الإسمية (المبتدأ والخبر)
11. الجملة الفعلية (الفعل والفاعل والمفعول)
12. أقسام الإسم إلى المفرد والمثنى والجمع
13. أقسام الجمع (السالم والمكسر)
14. النكرة والمعرفة (مع الأقسام)
15. المذكر والمؤنث (مع الأقسام)
16. الإعراب بالحركة والحروف

Unit-IV: Applied Arabic Grammar (Morphology)

9. أقسام الفعل (الماضي والمضارع والأمر)
10. تصريف الفعل الماضي المثبت (المعروف والمجهول) الثلاثي: قَعَلَ، فَعَلَ
11. تصريف الفعل الماضي المنفي (المعروف والمجهول) الثلاثي: مَا قَعَلَ، مَا فَعَلَ
12. تصريف الفعل المضارع المثبت (المعروف والمجهول) الثلاثي: يَفْعَلُ، يَفْعَلُ
13. تصريف الفعل المضارع المنفي (المعروف والمجهول) الثلاثي: لَا يَفْعَلُ، لَا يَفْعَلُ
14. تصريف فعل الأمر
15. تصريف فعل النهي

16. الأقسام الأخرى: ...



University of Jammu

Department of Arabic

Syllabus for Under-Graduate (4 years Degree Programme)

Under CBCS as per NEP Framework 2020

Multidisciplinary (Arabic)

Semester: II (May 2023-2024 & 2025)

Course Name: *Elementary Arabic -II*

Course Code: UMDART-203

Duration of Exam: 03 Hours

Credits: 03

Total Marks: 75

Internal Assessment: 15

External: 60

Course Objectives:

1. Learner will understand the origin, history and importance of Arabic language
2. The learners will become accurate and efficient in using a language.
3. Improves fluency in the language.
4. To speak, read and write the language more efficiently.

Course Learning Outcome:

The students will be able to:

- a) Recognize, read and write Arabic Alphabets.
- b) Read short and simple sentences in Arabic
- c) Use basic interrogative sentences in Arabic
- d) Utter basic vocabulary of objects around him/her in Arabic.
- e) Write Arabic numerals.

Unit – I Translation and Conversation

1. Lesson (9-10) Madina Arabic Reader- V-I (Dr. V Abdur Rahim)
2. Lesson (1-2) Madina Arabic Reader- V-II (Dr. V Abdur Rahim)

Unit – II Translation and Conversation

Lesson (3-6) Madina Arabic Reader- V-II (Dr. V Abdur Rahim)

Unit – III Translation and Conversation

Lesson (7-10) Madina Arabic Reader- V-II (Dr. V Abdur Rahim)

Unit – IV

Arabic Conversation drills.

المحادثة العربية من الكتاب "العربية للعالم" عن الموضوعات التالية:

1. التعرف
2. طالب، جديد
3. الأسرة والأقارب
4. الطعام
5. المدرسة



University of Jammu

Department of Arabic

Syllabus for Under-Graduate (4 years Degree Programme)

Under CBCS as per NEP Framework 2020

Skill Enhancement Course (SEC)

Semester: II (May 2023-2024 & 2025)

Course Name: Arabic Typing, Composing & Setting

Credits : 02

Course Code: USEART-204

Total Marks: 50

Duration of Exam: 2 1/2 Hours

Internal Assessment: 10

External: 40

Course Objectives:

1. To make students to get basic knowledge about using computer.
2. To make students to know about data collecting, processing and designing.
3. To acquaint learner about typing in Arabic script.
4. To aware students about different computer programs.

Course Learning Outcome:

The students will be able to:

- e) Use and operate computer.
- f) Collect data, process and design.
- g) Type and compose Arabic script.
- h) Get awareness about different computer programs.

The paper will comprise of the following 3 Units:-

Unit - I

Use of M.S Word

استخدام برنامج ام ايس ورد

Practice of 'File contents' and 'Home contents'

التدريب على "قائمة ملف" و"القائمة الرئيسية"

Unit - II

Practice of 'Insert and 'Page layout'

التدريب على "قائمة لإدراج" و"إعداد وتنسيق الصفحة"

Unit - III

Practice of 'References' and 'Review' and 'View'

التدريب على "المراجع" و"المراجعة" و"التعرض"

Recommended Books:

- PC fone: Arabic Typing Tutor, Version 3.3
- Arabic Typing: Kevin Newton, USA
- Arabic Computer Dictionary Ed. Ernest Kay Rout ledge and Kegan Pal, London
- معجم مصطلحات علوم الكمبيوتر د. عبد الحسن الحسيني دار العلوم، بيروت

INSTRUCTIONS FOR THE PAPER SETTER

- The paper of end semester examination will be of two Sections A & B.

Section A: It will comprise of four (4) short questions of 2 1/2 marks covering all Units/Syllabi with equal weightage to all units. All compulsory (4×2 1/2=10)

Section B: It will be comprise of six (6) long type questions (Three to be attempted) of 10 marks each covering all the units. The students will have the Internal choice. (3×10=30)

The time duration of end semester examination will be 2 1/2 hour.