

UNIVERSITY OF MUMBAI

No. UG/158 of 2018-19

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty is invited to the syllabus uploaded by Academic Authority Unit which was accepted by the Academic Council at its meeting held on 19th September, 2013, vide item No. 4.9 relating to the syllabus of T.Y.B.A. in Islamic Studies (Sem V & VI) degree course from the academic year 2013-14.

They are hereby informed that the recommendations made by the Board of Studies in Persian, Arabic and Islamic Studies at its meeting held on 3rd July, 2018 have been accepted by the Academic Council at its meeting held on 10th July, 2018 vide item No. 4.4 and that in accordance therewith, the revised syllabus as per the (CBCS) for the T.Y.B.A. in Islamic Studies – Sem V and VI has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI – 400 032

14th March, 2019

To

(Dr. Ajay Deshmukh)
REGISTRAR

The Principals of the affiliated Colleges and Directors of the recognized Institutions in Humanities Faculty. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C./4.4/10/07/2018

No. UG/158 -A of 2019

MUMBAI-400 032

14th March, 2019

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Humanities,
- 2) The Director, Board of Examinations and Evaluation,
- 3) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 4) The Director, Board of Students Development,
- 5) The Co-ordinator, University Computerization Centre,

(Dr. Ajay Deshmukh)
REGISTRAR

AC 19/9/2013

Item no.4.9

UNIVERSITY OF MUMBAI



Revised syllabus for the T.Y.B.A.

Program:B.A

Course: Islamic Studies

Sem V & VI

(Credit Based Semester and Grading System
with effect from the academic year 2013–2014)

B.A. III Year (Islamic Studies) Semester V

Course with code no.	Nomenclature	Theory	Internal Assessment	Hrs Per Week	Credits
UAIS -501	The Rightly Guided Caliphate	60	40	4	4
UAIS -502	The Early Abbasid Caliphate	60	40	4	4
UAIS – 503	Salient features of the Early Caliphate (from 632 A.D. to 1256 A.D.)	60	40	4	3.5
UAIS – 504	The Sultanate Period	60	40	4	4
UAIS – 505	The Mughals in India and the Decani Kingdom	60	40	4	4
UAIS - 506	The Indo-Islamic Culture and Traditions	60	40	4	3.5

DISTRIBUTION OF THE MARKS AND MODALITY OF ASSESSMENT

Internal Assessment 40% 40 Marks

- Two periodical class test / Case studies/ on line or Combination of these 20 Marks
- On Assignment 10 Marks
- Active Participation in class instructional delivers 05 Marks
- Overall conduct as a responsible student, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities 05 Marks

Semester End Assessment 60%

- Duration-these examinations shall be of 2 Hours duration.
- Question Paper Pattern
 1. There Shall be Four questions for each paper.
 2. All questions shall be compulsory with internal choice within the questions.
 3. Question may be sub-divided into sub-questions a, b, c, d & e only and the
 4. Allocation of marks depends on the weight age of the topic.

Scheme of Examination:

Semester End Examination - 60 Marks

Internal Assessment - 40 Marks

Scheme and syllabi for in the subject of Islamic Studies at the T.Y.B.A. examination, under the revised pattern, with effect from the academic year 2013-2014.

T.Y.B.A.-ISLAMIC STUDIES

Course : UAIS501 - The Righty Guided Caliphate

Semester V

Unit I: The demise of the Prophet and its aftermath

1. The election of Abu Bakr
2. Usama's expedition
3. Problems Faced by Abu Bakr, the rise of the False Prophet and the wars of Apostacy

- Unit II:**
1. Muthanna's expedient
 2. The battle of Ajandain
 3. The achievements of Abu Bakr

Unit III: The succession of Umar bin al-Khattab

1. The period of great conquest
2. The administrative reforms introduced by Umar bin al-Khattab

- Unit IV:**
3. Umar's assassination
 4. The greatness of Umar bin al-Khattab

Course : UAIS502 - The Umayyad and the Early Abbasid Caliphate

Semester V

Unit I: The Umayyad Dynasty:

1. The aftermath of Ali's assassination and ascension of the Mu'awiyah as the Caliph
2. The foundation of Umayyad Dynasty by Mu'awiyah

- Unit II:**
1. Yazid bin Mu'awiyah and the tragedy of Karbala
 2. Abd al-Malik bin Marwan and his reforms
 3. Al-Walid and the period of great conquest

- Unit III:**
1. Umar bin Abd al-Aziz and his reforms
 2. Hisham bin Abd al-Malik and his achievements

- Unit IV:**
1. Marwan-II and the Abbasid revolt
 2. The causes of the Umayyad downfall

Course : UAIS503 - Salient features of the Early Caliphate (from 632 A.D. to 1256 A.D.)

Semester V

The Institution of Caliphate in Islam:

- Unit i Salient features of the Rightly Guided Caliphate
- Unit ii Administration set-up and military organization under the Righteous Caliphs
- Unit iii The socio-economic, cultural and intellectual activities under the Rightly Guided Caliphs
- Unit iv Salient features of the Umayyad administration

Course : UAIS504- The advent of Islam in India

Semester V

Unit I: **Indo- Arab relation:**

- i. The Trade Relations between India and the Arabian peninsula before the advent of Islam.
- ii. The Arab merchants and the Western coast of India

Unit II: Early Arab incursions in India.

Unit III: Muhammad bin Qasim and the Arab conquest of Sind and Multan.

Unit IV: Relations between the Arab rulers and their Indian subjects

Course : UAIS505- The Mughals in India and the Decani Kingdom:

Semester V

Unit I : The Mughal conquest of Delhi:

Zahiruddin Babar and the foundation of the Mughal Empire

Humayun and his struggle against Sher Shah.

Unit II: Expansion and consolidation of the Mughal Empire under Akbar the Great, Jahangir.

Unit III: Expansion and consolidation of Mughal Empire under Shahjahan and Aurangzeb.

Unit IV: The Decline of the Mughal Empire

Course : UAIS506 - The Indo-Islamic Culture and Traditions

Semester V

Unit I :

- i. The social and cultural impact of the Arab conquest Sind on India
- ii. The Muslim Administrative structure and political Institution in India
- iii. Central Government, Revenue, Judicial and Military system under the Sultans of Delhi.

Unit II: i. The administrative reforms of Sher Shah Suri

- ii. Salient features of the Mughal administration (a) Central and provincial military set-up (b) Manasbdari, Judicial and Revenue system.

Unit III Society during the Sultanate and the Mughal periods:

- i. Society – Classification, Family structure, Position of Women
- ii. Economic life-Agrarian structure, trade, Commerce, Industry and Colnage

Unit IV: Educational, Scientific and Literary developments during the Sultanate and Mughal period.

B.A. III Year (Islamic Studies) Semester VI

Course with code no.	Nomenclature	Theory	Internal Assessment	Hrs Per Week	Credits
UAIS -601	The Rightly Guided Caliphate	60	40	4	4
UAIS -602	The Early Abbasid Caliphate	60	40	4	4
UAIS – 603	Salient features of the Early Caliphate (from 632 A.D. to 1256 A.D.)	60	40	4	3.5
UAIS – 604	The Sultanate Period	60	40	4	4
UAIS – 605	The Mughals in India and the Decani Kingdom	60	40	4	4
UAIS - 606	The Indo-Islamic Culture and Traditions	60	40	4	3.5

DISTRIBUTION OF THE MARKS AND MODALITY OF ASSESSMENT

Internal Assessment 40% **40**
Marks

- **Two periodical class test / Case studies/ on line or Combination of these** **20**
Marks
- **On Assignment** **10**
Marks
- **Active Participation in class instructional delivers** **05**
Marks
- **Overall conduct as a responsible student, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities** **05 Marks**

Semester End Assessment 60%

- **Duration-these examinations shall be of 2 Hours duration.**
 - **Question Paper Pattern**
-
- 5. There Shall be Four questions for each paper.**
 - 6. All questions shall be compulsory with internal choice within the questions.**
 - 7. Question may be sub-divided into sub-questions a, b, c, d & e only and the**
 - 8. Allocation of marks depends on the weight age of the topic.**

Scheme of Examination:

Semester End Examination **- 60 Marks**

Internal Assessment **- 40 Marks**

Scheme and syllabi for in the subject of Islamic Studies at the T.Y.B.A. examination, under the revised pattern, with effect from the academic year 2013-2014.

Course : UAIS601 - The Righty Guided Caliphate

Semester VI

Unit I: Aftermath of Umar's assassination

1. The election of Uthman bin Affan
2. The uprising in Persia, Syria and Egypt
3. The period of unrest

Unit II: 1. The conspiracy and uprising against Uthman bin Affan

2. Assassination of Uthman bin Affan
3. The assessment of Uthman's Caliphate

Unit III: Aftermath of Uthman's assassination

1. The election of Ali bin Abi Talib
2. The conflicting situation
3. The battle of Camel

Unit IV: 1. The battle of Siffin

2. The Kharijite movement
3. Assassination of Ali bin Abi Talib
4. The assessment of Ali's Caliphate

Course : UAIS602 - The Early Abbasid Caliphate

Semester VI

Unit I: The Early Abbasids:

1. The Abbasid Revolution and its aftermath
2. Ascension of al-Saffah as the Caliph

Unit II: 1. Al-Mansur

2. Al-Mahdi
3. Harun al-Rashid

Unit III: 1. Al-Amin

2. Al-Mamun
3. Al-M'utasim and Al-Mutawakkil

Unit IV: 1. The decline of Abbasids power

2. The later Abbasids and the sack of Baghdad

Course : UAIS603 - Salient features of the Early Caliphate (from 632 A.D. to 1256 A.D.)

Semester VI

Salient features of the Early Caliphate (from 632 A.D. to 1256 A.D.):

- Unit i The socio-economic, cultural and intellectual progress under the Umayyads
- Unit ii Literary, Cultural and intellectual progress under the Umayyads
- Unit iii Salient features of the Abbasid administration
The patronage of Harun al-Rashid and al-Mamun to arts, sciences and literature with special reference to 'Bait al-Hikmah and Dar al-Tarjumah
- Unit iv The social structure of the Abbasid society

Course : UAIS604 The Sultanate Period:

Semester VI

Unit I: The invasion of Mahmud of Ghazna and Muhammad Ghori

Unit II: The Sultans of Delhi

The expansion and consolidation of Delhi Sultanate with special reference to the rule of Qutbuddin Ayyub, Iltutmish, Sultan Razia, Ghiyasuddin Balban.

Unit III: Jalaluddin and Ala'uddin Khalji, Muhammad bin Tughlaq and Firoz Shah Tughlaq

Unit IV: India on the eve of Mughal Invasion.

Course : UAIS605 The Mughals in India and the Decani Kingdom:

Semester VI

- Unit I: i. The later Mughals and their limitations
ii. The disintegration of the Mughal administration
- Unit II: i. Bahadur Shah- the last Mughal ruler
- Unit III: i. Medieval Deccani Kingdom:
ii. The Kingdom of Ahmadnagar
- Unit IV: i. The Kingdom of Bijapur
ii. The Kingdom of Golkunda

Course : UAIS606 The Indo-Islamic Culture and tradition

Semester VI

- Unit I: Development of Art and Architecture:
i. Art of Calligraphy, Music, Miniature painting, Crafts
ii. Main Trends in Indo-Islamic Architecture
- Unit II: i. Secular and Religious Buildings
ii. Forts
- Unit III A study of the following Muslim travelers:
i. Ibn Khurdazbeh
ii. Abu Zaid Sairafi
- Unit IV i. Al-Masudi
ii. Ibn Batuta

Reference Books:

- | | |
|-----------------------------------|---|
| 1. Syed Sulemna Nadvi | Indo-Arab Relations (Arab Aur Hind Ke Ta'lluqat) Urdu |
| 2. S. Maqbool Ahmed | Indo-Arab Relations |
| 3. Dr. Tara Chand | Influence of Islam on Indian Culture |
| 4. M. Mujeeb | Influence of Islam on Indian Society |
| 5. The Cambridge History of Islam | |
| 6. Yusuf Hussain | Glimpses of Indian Culture |

UNIVERSITY OF MUMBAI



Syllabus for the T.Y.B.A.

PROGRAM: B.A.

**COURSE: ISLAMIC STUDIES
(SEMESTER V & VI)**

**CHOICE BASED CREDIT SYSTEM (CBCS)
WITH EFFECT FROM
THE ACADEMIC YEAR 2018-2019**

SYLLABUS IN BRIEF
T.Y.B.A. IN ISLAMIC STUDIES
SEMESTER V

Course Name	Course Code	Nomenclature	Theory Exam	Hrs per week	Credit
Core Courses					
Course IV	UAIS 501	The Rightly Guided Caliphate	100	4	4
Course V	UAIS 502	The Early Abbasid Caliphate	100	4	4
Elective Course + Project					
Course VI	UAIS 503	Salient features of the Early Caliphate (from 632 A.D. to 1256 A.D.)	80	4	4
		Project	20		
Core Courses					
Course VII	UAIS 504	The Sultanate Period	100	4	4
Course VIII	UAIS 505	The Mughals in India and the Kingdom of Deccan	100	4	4
Elective Course + Project					
Course IX	UAIS 506	The Indo-Islamic Culture and Traditions	80	4	4
		Project	20		
		Total	600	24	24

Scheme of Examination (COURSES IV, V, VII, VIII)

100 Marks = End Semester Examination (3 hrs)

Paper Pattern for Exam

5 Questions of 20 Marks (each with internal choice)

Scheme of Examination (COURSES VI, IX)

80 Marks = End Semester Examination (2.5 hrs)

20 Marks = Project

Paper Pattern for Exam

4 Questions of 20 Marks (each with internal choice)

(Please refer Question Paper pattern attached at the end of the syllabus)

Paper – IV - (Core Course)
The Righty Guided Caliphate
SEMESTER V

Module 1:

The demise of the Prophet and its aftermath

- i) Early life of Abu Bakr
- ii) The election of Abu Bakr
- iii) Usama's expedition
- iv) Problems Faced by Abu Bakr, the rise of the False Prophet and the wars of Apostacy

Module 2:

- i) Muthanna's expedient
- ii) The battle of Ajandain
- iii) The achievements of Abu Bakr
- iv) Administration of Abu Bakr and his illness and demise

Module 3:

The succession of Umar bin al-Khattab

- i) Early life of Umar bin al-Khattab
- ii) The Caliphate of Umar bin al-Khattab
- iii) Expansion of Islam
- iv) The period of great conquest

Module 4:

- i) The administrative reforms introduced by Umar bin al-Khattab
- ii) Umar's assassination
- iii) The greatness of Umar bin al-Khattab

Paper – V - (Core Course)

The Umayyad and the Early Abbasid Caliphate

SEMESTER V

Module 1:

The Umayyad Dynasty

- i) The aftermath of Ali's assassination
- ii) Early life of Mu'awiyah bin Abu Sufiyan
- iii) Ascension of the Mu'awiyah as the Caliph
- iv) The foundation of Umayyad Dynasty by Mu'awiyah

Module 2:

- i) Administration under Mu'awiyah
- ii) Yazid bin Mu'awiyah
- iii) The tragedy of Karbala
- iv) Events of Makkah and Madinah

Module 3:

- i) Marwan bin Al-Hakam
- ii) Early life of Abd al-Malik bin Marwan
- iii) Reforms of Abd al-Malik bin Marwan
- iv) Al-Walid and the period of great conquest

Module 4:

- i) Umar bin Abd al-Aziz and his reforms
- ii) Hisham bin Abd al-Malik and his achievements
- ii) Marwan-II and the Abbasid revolt
- ii) The causes of the Umayyad downfall

Paper – VI - (Elective Course)
Salient features of the Early Caliphate
(from 632 A.D. to 1256 A.D.)
SEMESTER V

The Institution of Caliphate in Islam

Module 1:

Salient features of the Rightly Guided Caliphate

Module 2:

Administration set-up and military organization under the Righteous Caliphs

Module 3:

The socio-economic, cultural and intellectual activities under the Rightly Guided Caliphs

Module 4:

Salient features of the Umayyad administration

Paper – VII - (Core Course)
The Advent of Islam in India
SEMESTER V

Module 1:

Indo- Arab relations:

- i) The Trade Relations between India and the Arabian peninsula before the advent of Islam.
- ii) The Arab merchants and the Western coast of India

Module 2:

Early Arab incursions in India

Module 3:

Muhammad bin Qasim and the Arab conquest of Sind and Multan

Module 4:

Relations between the Arab rulers and their Indian subjects

Paper – VIII - (Core Course)
The Mughals in India and the Kingdom of Deccan
SEMESTER V

Module 1:

The Mughal conquest of Delhi:

Zahiruddin Babar and the foundation of the Mughal Empire

Humayun and his struggle against Sher Shah.

Module 2:

Expansion and consolidation of the Mughal Empire under Akbar the Great, Jahangir.

Module 3:

Expansion and consolidation of Mughal Empire under Shahjahan and Aurangzeb

Module 4:

The Decline of the Mughal Empire

Paper – IX - (Elective Course)
The Indo-Islamic Culture and Traditions
SEMESTER V

Module 1:

- i) The social and cultural impact of the Arab conquest Sind on India
- ii) The Muslim Administrative structure and political Institution in India
- iii) Central Government, Revenue, Judicial and Military system under the Sultans of Delhi. Neo-Classicism

Module 2:

- i) The administrative reforms of Sher Shah Suri
- ii) Salient features of the Mughal administration
 - (a) Central and provincial military set-up
 - (b) Manasbdari, Judicial and Revenue system.

Module 3:

Society during the Sultanate and the Mughal periods:

- i. Society – Classification, Family structure, Position of Women
- ii. Economic life-Agrarian structure, trade, Commerce, Industry and Colnage

Module 4:

Educational, Scientific and Literary developments during the Sultanate and Mughal period.

SYLLABUS IN BRIEF:
T.Y.B.A. IN ISLAMIC STUDIES
SEMESTER VI

Course Name	Course Code	Nomenclature	Theory Exam	Hrs per week	Credit
Core Courses					
Course IV	UAIS 601	The Rightly Guided Caliphate	100	4	4
Course V	UAIS 602	The Early Abbasid Caliphate	100	4	4
Elective Course + Project					
Course VI	UAIS 603	Salient features of the Early Caliphate (from 632 A.D. to 1256 A.D.)	80	4	4
		Project	20		
Core Courses					
Course VII	UAIS 604	The Sultanate Period	100	4	4
Course VIII	UAIS 605	The Mughals in India and the Kingdom of Deccan	100	4	4
Elective Course + Project					
Course IX	UAIS 606	The Indo-Islamic Culture and Traditions	80	4	4
		Project	20		
		Total	600	24	24

Scheme of Examination (COURSES IV, V, VII, VIII)

100 Marks = End Semester Examination (3 hrs)

Paper Pattern for Exam

5 Questions of 20 Marks (each with internal choice)

Scheme of Examination (COURSES VI, IX)

80 Marks = End Semester Examination (2.5 hrs)

20 Marks = Project

Paper Pattern for Exam

4 Questions of 20 Marks (each with internal choice)

(Please refer Question Paper pattern attached at the end of the syllabus)

Paper – IV - (Core Course)
The Righty Guided Caliphate
SEMESTER VI

Module 1:

Aftermath of Umar's assassination

- i) Early life of Uthman bin Affan
- ii) The election of Uthman bin Affan
- iii) The uprising in Persia, Syria and Egypt
- iv) The period of unrest

Module 2:

- i) The revolt against Uthman bin Affan
- ii) The conspiracy and uprising against Uthman bin Affan
- iii) Assassination of Uthman bin Affan
- iv) The assessment of Uthman's Caliphate

Module 3:

Aftermath of Uthman's assassination

- i) Early life of Ali bin Abi Talib
- ii) The election of Ali bin Abi Talib
- iii) The conflicting situation
- iv) The battle of Camel

Module 4:

- i) The battle of Siffin
- ii) The Kharijite movement
- iii) Assassination of Ali bin Abi Talib
- iv) The assessment of Ali's Caliphate

Paper – V - (Core Course)
The Early Abbasid Caliphate
SEMESTER VI

Module 1:

The Early Abbasids:

- i) The Abbasid Revolution and its aftermath
- ii) Ascension of al-Saffah as the Caliph
- iii) Abu Jafar al-Zakiyah
- iv) Al-Nafs al-Zakiyah

Module 2:

- i) Al-Mehdi
- ii) Al-Hadi
- iii) Harun al-Rashid
- iv) Bait al-Hikmah and Dar al-Tarjamah under Haram al-Rashid

Module 3:

- i) Al- Barmika
- ii) Al-Amin
- iii) Al-Mamun
- iv) Al-M'utasim

Module 4:

- i) Al-Mutawakkil
- ii) The decline of Abbasids power
- iii) The later Abbasids and the sack of Baghdad
- iv) The administration under Abbasids

Paper – VI - (Elective Course)
Salient features of the Early Caliphate
(from 632 A.D. to 1256 A.D.)

SEMESTER VI

Module 1:

The socio-economic, cultural and intellectual progress under the Umayyads

Module 2:

Literary, Cultural and intellectual progress under the Umayyads

Module 3:

Salient features of the Abbasid administration

The patronage of Harun al-Rashid and al-Mamun to arts, sciences and literature with special reference to 'Bait al-Hikmah and Dar al-Tarjumah

Module 4:

The social structure of the Abbasid society

Paper – VII - (Core Course)

The Sultanate Period

SEMESTER VI

Module 1:

The invasion of Mahmud of Ghazna and Muhammad Ghori

Module 2:

The Sultans of Delhi

The expansion and consolidation of Delhi Sultanate with special reference to the rule of Qutbuddin Aybak, Itutmish, Sultan Razia, Ghiyasuddin Balban.

Module 3:

Jalaluddin and Ala'uddin Khalji, Muhammad bin Tughlaq and Firoz Shah Tughlaq

Module 4:

India on the eye of Mughal Invasion.

Paper – VIII - (Core Course)
The Mughals in India and the Kingdom of Deccan
SEMESTER VI

Module 1:

- i. The later Mughals and their limitations
- ii. The disintegration of the Mughal administration

Module 2:

Bahadur Shah- the last Mughal ruler

Module 3:

- i. Medieval Deccani Kingdom
- ii. The Kingdom of Ahmadnagar

Module 4:

- i. The Kingdom of Bijapur
- ii. The Kingdom of Golkunda

Paper – IX - (Elective Course)
The Indo-Islamic Culture and Traditions
SEMESTER VI

Module 1:

Development of Art and Architecture:

- i. Art of Calligraphy, Music, Miniature painting, Crafts
- ii. Main Trends in Indo-Islamic Architecture

Module 2:

- i. Secular and Religious Buildings
- ii. Forts

Module 3:

A study of the following Muslim travellers:

- i. Ibn Khurdazbeh
- ii. Abu Zaid Sairafi

Module 4:

- i. Al-Masudi
- ii. Ibn Batuta

Prescribed Books:

1. Syed Sulemna Nadvi Indo-Arab Relations (Arab Aur Hind Ke Ta'lluqat) Urdu
2. S. Maqbool Ahmed Indo-Arab Relations
3. Dr. Tara Chand Influence of Islam on Indian Culture
4. M. Mujeeb Influence of Islam on Indian Society
5. The Cambridge History of Islam
6. Yusuf Hussain Glimpses of Indian Culture

Question Paper Pattern (For Core Courses, IV, V, VII, VIII)

(SEM-V & VI) Marks: 100, Time: 3 Hrs

N.B.: (1) All questions are compulsory.

(2) All questions carry equal marks.

Q.1: Based on Module I

(20 marks)

(a)

or

(b)

Q.2: Based on Module II

(20 marks)

(a)

or

(b)

Q.3: Based on Module III

(20 marks)

(a)

or

(b)

Q.4: Based on Module IV

(20 marks)

(a)

or

(b)

Q.5: Attempt any TWO short notes. (Based on Module I, II, III and IV)

(20 marks)

(a)

(b)

(c)

(d)

Question Paper Pattern (For Elective Courses, VI & IX)

(SEM-V & VI) Marks: 80, Time: 2.5 Hrs

N.B.: (1) All questions are compulsory.

(2) All questions carry equal marks.

Q.1: Based on Module I

(20 marks)

(a)

or

(b)

Q.2: Based on Module II

(20 marks)

(a)

or

(b)

Q.3: Based on Module III

(20 marks)

(a)

or

(b)

Q.4: Based on Module IV

(20 marks)

(a)

or

(b)