

**M.Ed. Curriculum
(For Regular Mode)
With effect from the Academic year 2023-24
CCE & Choice Based Credit System (CBCS)**



Reaccredited by NAAC with 'A' grade
Category-I graded Autonomy by UGC

**OSMANIA UNIVERSITY HYDERABAD - 500007
TELANGANA, INDIA**

Prologue

Present curriculum is revised with the intent and spirit of NEP-2020, UGC Guidelines for continuous comprehensive evaluation framework (CCE) 2019 and choice- based credit system (CBCS) and credit framework guidelines. This curriculum also takes insights from the NCTE (NCFTE-2014-15) and the contemporary developments in teacher education.

It has conceptualized CCE, credit frame work and choice- based credit system (CBCS) proposed by UGC. Broadly the program consists of:

1. Foundation Courses which provide a strong knowledge and skill base
2. Professional competency courses like Communicative English, Academic writing, Indian knowledge system (IKS), yoga and professional development, AI tools and community engaged learning.
3. Elective courses, etc...
4. MOOCs course
5. Internship
6. Dissertation

This curriculum also emphasized on internship, dissertation, field- based engagement. All through the course they focus on hand holding of prospective teacher educators to prepare professionals.

Paving way to the new guidelines of the policy, UGC and NCTE also restoring the local needs by involving experts from the department and outside experts and feed-back and suggestions teacher education colleges designed the curriculum. Department level core committee made rigorous exercise, deliberated discussed on curriculum right from structure to that of framing curriculum.

The salient features of the curriculum are:

1. Choice Based Credit system (CBCS)
2. Internship
3. Technology integration
4. Dissertation
5. Specialization & Core Specializations
6. Grading
7. Internal assessments
8. Continuous and comprehensive evaluation (CCE)
9. Mentoring
10. Reflective practices
11. Engagement with the Field
12. Inclusion
13. Indian knowledge system (IKS)

This curriculum created a space for introspecting with oneself, emerging into reflective, acceptable, empathetic, creative, humane prospective teacher educators with integrity to become responsible future teacher educators to prepare future teachers with a spirit of Indian Ethos and culture and quality higher education.

Members of Core Committee:

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**Faculty of Education
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**REGULATION FOR CONTINUOUS AND COMPREHENSIVE EVALUATION (CCE)
AS PER CHOICE-BASED CREDIT SYSTEM (CBCS)
With effect from the Academic Year 2023-2024
(As approved by the Standing Committee of Academic Senate, Dated: 07-12-2023)**

I. DEFINITIONS

1. Academic Senate:

The term "Academic Senate" refers to the governing body responsible for academic policies and decisions within the University. Comprising representatives from various academic and administrative units, the Academic Senate plays a pivotal role in shaping and overseeing academic affairs.

2. Academic Authorities:

The term "Academic authorities" refer to individuals or bodies within the University that hold decision-making power and responsibility for overseeing academic matters. This may include administrators, faculty members, academic deans, or other individuals or committees involved in making and implementing decisions related to the University's academic policies, Programmes, and standards.

3. Executive Council (EC):

The term "EC" stands for the Executive Council of the University. The Executive Council is a crucial administrative body responsible for making executive decisions and implementing policies related to the overall management and governance of the University.

4. Board of Studies (BoS):

The term "BoS" refers to the Board of Studies of a Department. This body is responsible for approving authority of the academic curriculum, pedagogy, suggesting modifications, and ensuring the relevance and quality of academic Programmes within a specific department.

5. Choice Based Credit System (CBCS):

The term "CBCS" or Choice-Based Credit System, is an educational framework that allows students to choose courses from a wide array of elective courses, in addition to the core subjects that are mandatory for their Programme of study. It is designed to provide students with flexibility in choosing courses based on their interests, aptitude, and career goals.

6. Common Post Graduate Entrance Test (CPGET):

The term "CPGET" stands for Common Postgraduate Entrance Test, which is conducted by the Directorate of Admissions/competent authority. It is an assessment tool used for the standardized evaluation of candidates applying for admission to academic Postgraduate Programmes.

7. Continuous Assessment (CA):

The term 'Continuous Assessment' (CA) refers to an ongoing evaluation process designed to provide continual feedback on teaching and learning to teachers and students, respectively. This includes monthly internal assessments along with the consideration of attendance percentage conducted throughout the progress of a semester.

8. Course:

The term "Course" is a distinct subject identified by its course number and title. It encompasses a specified syllabus or course description with course objectives & course outcomes, a set of references, and is taught by one or more teachers or a Course Coordinator to a specific class or group of students during a particular academic session or semester.

9. Curriculum:

The term "Curriculum" refers to the entire study requirements for the award of a Postgraduate degree.

10. Core Course:

The term "Core Course" refers to a department-offered course in a Postgraduate Programme, closely aligned with the Programme's subject. Courses in this category are intended to encompass fundamental content essential for students in that discipline. These are mandatory studies that every candidate must undertake as a core requirement.

11. Credit:

The term "Credit" means academic input measured in terms of the weekly contact hours (numbers attached to each course which define their weightage in the whole Programme).

12. Credit Point:

The term "Credit Point" (CP) of a course is the value obtained by multiplying the Grade Point (G) by the Credit (Cr) of the course.

13. Credit Transfer:

The term "Credit Transfer" means the transfer of credits into and out of a Programme as per provision of the credit transfer regulations of the University.

14. Cumulative Grade Point Average (CGPA):

The "Cumulative Grade Point Average" (CGPA) is calculated by dividing the total credit points earned in all courses throughout the Programme by the overall number of credits. The result is then rounded off to two decimal places.

15. Foundation Course:

The term "Foundation Course" refers to courses centered around content that enhances knowledge. These courses are obligatory for all disciplines, providing a fundamental basis for learning.

16. Grade:

The term 'Grade' signifies an alphabetical letter indicating the level of achievement of learning objectives in a course.

17. Grade point:

The term "grade point" is a numerical representation of a student's academic performance in a course or subject. It is commonly used in educational systems that use a grading scale based on letter grades. The grade point is usually associated with a letter grade and serves as a quantitative measure of the student's achievement.

All the rules and regulations, hereinafter, specified shall be read as a whole for the purpose of interpretation.

II. Admission

1. A candidate for admission to M.Ed. course in the Faculty of Education has to qualify at the M.Ed. Entrance Examination conducted by the Osmania University for that academic year. The candidates will be admitted strictly in accordance with the merit secured at the entrance examination, keeping in view the rules in force in respect of the statutory reservation of seats under various categories of candidates.

2. Duration

The duration of M.Ed. course shall be Two years (four semesters). The duration of each semester shall be 100 days (16 weeks)

3. Attendance:

- i. 80% of attendance is compulsory to all the students. A student shall be considered to have satisfied the requirement of attendance for appearing the semester end examination, if he/she has attended not less than 80% of the number of classes held upto the end of the semester including tests, seminars and practicum, etc.
- ii. In special cases the Vice- Chancellor may condone deficiency of attendance not exceeding 10% on the recommendation of the Principal, based on medical certificate by an authorized medical officer approved by the Principal. There is a provision for condonation of attendance for the students those who have put up the attendance between 71% and 79 % on Medical Grounds on payment of a fee to the Registrar, OU and production of medical certificate.
- iii. If a student represents his/her institution, University, State or Nation in Sports, NCC, NSS or Cultural or any other officially sponsored activities, he/she shall be eligible to claim the attendance for the actual number of days participated subject to a maximum of 20 days in a Semester based on the specific recommendations of the Head of the Department and Principal of the College concerned.
- iv. A student who does not satisfy the requirements of attendance shall not be permitted to take internal assessment as well as the Semester end examinations.

4. Medium of Instruction

The medium of instruction shall be English only.

7. Infrastructure, Instructional facilities and Faculty

The above shall be implemented as per NCTE norms, 2014 referred in the document under sections 6.1 Faculty; 6.2 Qualifications; 6.3 Administrative and professional staff; 7.1 Infrastructure; 7.2 Equipment and Materials, and 7.3 other amenities.

NOTE:

All the CCE and CBCS rules approved by the Univ are applicable to MEd also.PI. visit Osmania University website and refer all the regulations related to internal, external examinations, assessment and grading, student conduct, teacher related and other details. (36-page document available on OU website.)

8. STRUCTURE OF THE COURSE AND CREDITS – M.Ed. 2023 - 2025

Semester	Paper	Paper Title	Credits
Sem-I	A. Foundation / core courses (FC)		
First	EDN – 01 Paper – I	Philosophy of Education	4
	EDN – 02 Paper – II	Advanced Educational Psychology	4
	EDN – 03 Paper - III	Economics of Education	4
	EDN – 04 Paper - IV	Research in Education	4
	B. Professional competency courses (PCC)		
	EDN -05 Paper - V	Yoga and Professionalism	2
	EDN -06 Paper - VI	Communication skills in English	2
Total			20
Sem-II	A. Foundation / Core Courses (FC)		
	EDN – 07 Paper - VII	Curriculum design & development	4
	EDN – 08 Paper - VIII	Sociology of Education	4
	EDN- 09 Paper - IX	Psychological Testing	2
	EDN -10 Paper - X	Organizational behavior and Leadership	4
	B. Professional competency courses (PCC)		
	EDN -11 Paper - XI	Academic Writing	2
	EDN -12 Paper - XII	Experiments in psychology	2
	EDN – 13 Paper -XIII	Community engagement learning	2
			20
Sem-III	A. Foundation / core courses (FC)		
	EDN –14Paper -XIV	History of education &Teacher Education	4
	EDN –15 Paper -XV	Instructional strategies in higher education	2
	EDN –16 Paper – XVI	Statistics in Education	4
	EDN -17 Paper -X VII	Comparative and international education	2
	B. Professional competency courses (PCC)		
	EDN -18 Paper - XVIII	AI tools in education	2
	EDN -19 Paper - XIX	Indian knowledge system (IKS)	2
	Online MOOCs course		
	Online course - XX	Any course related to tr. Edu.	2
	C. Dissertation		
	EDN -21 Paper -XXI	Dissertation-1	2
			20
Sem-IV	A. Foundation / core courses (FC)		
	EDN -22 Paper -XXII	Sustainability in higher Education	2
	EDN -23 Paper -XXIII	Policy planning and financing in education	4
	EDN -24 Paper -XXIV	Indian constitution and democracy in education	4
	Dissertation		
	EDN -25 Paper -XXV	Dissertation -2	6
	D. Internship		
	EDN -26 Paper -XXVI	Internship	2
	Elective Course		2
	EDN -27 Paper -XXVII	a. Gerontology b. Peace education c. Human rights education d. Women education e. Open and distance learning f. Skills for entrepreneurship	
Total			20
	Grand Total -Sem I+ Sem -II+ Sem- III+ Sem-IV		80

Summary of credits

Semester	Credits						Total
	FC/CC	PCC	Internship	Dissertation	Electives	MOOC's	
Semester - I	16	4					20
Semester - II	14	6					20
Semester - III	12	4		2		2	20
Semester -IV	10		2	6	2		20
Total	52	14	2	8	2	2	80

Scheme of Examination

Semester /paper				
Semester - I				
A. Foundation courses		UE	IE+Atte.	Total marks
EDN – 01 Paper - I	Philosophy of Education	50	40+10	100
EDN – 02 Paper - II	Advanced Educational Psychology	50	40+10	100
EDN – 03 Paper - III	Politics and Economics of Education	50	40+10	100
EDN – 04 Paper - IV	Research methods in Education	50	40+10	100
B. Professional competency courses (PCC)				
EDN -05 Paper - V	Self- development and Professionalism	25	20+5	50
EDN -06 Paper - VI	Communication skills in English.	25	20+5	50
Sem-I Total		200	300	500
Semester - II				
A. Foundation / core courses (FC)				
EDN – 08 Paper - VII	Curriculum design & development	50	40+10	100
EDN – 08 Paper - VIII	Sociology of Education	50	40+10	100
EDN- 09 Paper - IX	Psychological Testing	25	20+5	50
EDN -10 Paper - X	Organizational behavior and leadership	50	40+10	100
B. Professional competency courses (PCC)				
EDN -11 Paper - XI	Academic Writing	25	20+5	50
EDN -11 Paper - XII	Experiments in psychology	25	20+5	50
EDN – 13 Paper -XIII	Community engagement learning	25	20+5	50
Semester – II Total		180	270	500
Semester - III				
A. Foundation / core courses (FC)				
EDN –14 Paper -XIV	History of education & Teacher Education	50	40+10	100
EDN –15 Paper – XV	Instructional strategies in higher education	25	20+5	50
EDN -16 Paper -X VI	Statistics in Education	50	40+10	100
EDN -17 Paper - XVII	Comparative and international education	25	20+5	50
B. Professional competency courses (PCC)				
EDN -18 Paper - XVIII	AI tools in education	25	20+5	50
EDN -19 Paper - XIX	Indian knowledge system (IKS)	25	20+5	50
C. Online course				
Online course - XX	Any course related to tr. Edu.	25	20+5	50
D. Dissertation				
EDN -21 Paper -XXI	Dissertation-1		45+5	50
Sem III Total		220	330	500
Semester - IV				
A. Foundation / core courses (FC)				
EDN -22 Paper -XXII	Sustainability in higher Education	25	20+5	50
EDN -23 Paper -XXIII	Policy planning and financing in education	50	40+10	100
EDN -24 Paper -XXIV	Indian constitution and democracy in education	50	40+10	100
D.Dissertation				
EDN -25 Paper -XXV	Dissertation -2	100	35+15	150
E. Internship				
EDN -26 Paper -XXVI	Internship		45+5	50
F. Elective Course		25	20+5	50
EDN -27 Paper -XXVII	a. Gerontology b. Peace Education c. Human Rights Education d. Women Education e. Open and Distance Learning f. Skills For Entrepreneurship			
Total		200	300	500

Grand Total -Sem I+ Sem -II+ Sem- III+ Sem-IV=	800	1200	2000
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Summary

Semester	UE	IE	Total
Semester-I	200	300	500
Semester-II	180	270	500
Semester-III	220	330	500
Semester- IV	200	300	500
Total	800	1200	2000

WEIGHTAGE FOR ATTENDANCE

a. The allocation of marks for attendance is structured based on the percentage of attendance, reflecting a commitment to regular participation. Students with an attendance percentage between 95% and 100% are rewarded with 10 marks, emphasizing the significance of consistent attendance.

b. Those with attendance ranging from 86% to 94% receive 08 marks, recognizing and encouraging sustained engagement.

c. A slightly lower attendance percentage of 81% to 85% corresponds to 06 marks, highlighting the importance of maintaining a substantial presence in class.

d. Furthermore, students with 75% to 80% attendance earn 05 marks, reinforcing the value placed on being actively present.

e. For attendance percentages falling between 70% and 74%, 04 marks are applicable, contingent upon the provision of a valid reason supported by condonation. This system aims to underscore the connection between regular attendance and academic success while allowing flexibility for exceptional circumstances through the condonation provision.

Attendance percentage	Marks
95% -100%	10
86% - 95%	08
81% - 86%	06
75% -81%	05
70 % -75%	04
Below 70 % (detained)	No weightage

7.) Award of grades

a. Grades are awarded based on a relative grading system and University follows a 8 point grading system.

b. The pass criteria for the successful completion of Programme, shall be as follows

i. Minimum of 40% in the ESE of a course.

ii. Minimum 40% aggregate of Postgraduate Programme in each Semester

c. Students who fail to achieve the minimum semester course aggregate of 40% in one or more courses from a failed semester are eligible to appear during the backlog examinations.

d. The student has the option to choose only the End Semester Examination (ESE) of a course for improvement.

e. In the case of an improvement attempt, the assessment in which the student has scored higher will be considered.

1. General Grading System:

- a. For each course, a student receives a grade based on their overall performance in various assessment components. The marks obtained in assessment shall be converted into grades.
- b. The assigned grade reflects a qualitative assessment and is associated with an equivalent numerical value known as a grade point.
- c. Letter grades (O to F only) awarded in all courses are converted into a Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA).
- d. In the CCE System, if a student fails are intends to appear for improvement, the grading for backlog /improvement examinations is determined using a relative grading system. This system considers factors such as the class average and standard deviation from regular exams to assign appropriate grades.

2. Relative Grading:

- a. Relative grading, or grading on a curve, assesses students in relation to their peers, fostering collaboration in competitive settings.
- b. This approach, considering assessment difficulty variations, supports a collaborative learning environment, enabling students to learn from each other and enhance the overall educational experience.

It evaluates students' performance relative to their peers rather than against an absolute standard.

Relative grading (as per OU guidelines for PG courses)

Marks Distribution	Grade	Grade Point	
Marks > Average + 1.5 SD	O	10	Outstanding
Marks \geq Average + 1 SD to +1.5SD	A+	9	Excellent
Marks \geq Average + 0.5 SD to + 1 SD	A	8	Very Good
Marks \geq Average 0 SD to + 0.5 SD	B+	7	Good
Marks \geq Average 0 SD to - 0.5 SD	B	6	Above Average
Marks \geq Average -0.5 SD to -1 SD	C	5	Average
Marks \geq Average -1 SD to -1.5 SD	P	4	Pass
Marks < Average -1.5 SD	F	0	Fail
--	Ab	0	Absent / Fail

Average= Mean, SD= Standard Deviation

8. Evaluation Methods

a. Theory Examinations

- i. Out of the total marks for each course/paper 40% marks shall be earmarked for continuous assessment (internal assessment /assignments/seminars/book reviews) and 10% marks for attendance remaining 50% for the semester-end examinations. (as per the guidelines on OU website)
- iii. The pass marks in each paper shall be 40%.

b. Dissertation

- i. Every M.Ed. student shall do the Dissertation work individually under the supervision of a Teacher.
- ii. The Dissertation work and supervisor shall be assigned to the student by the Department during the semester III and IV to enable the student to plan and carry out the work through the semesters (III & IV semesters).
- iii. The Dissertation work is assigned 6 credits and evaluated for 200 marks.
- iv. The pass marks in Dissertation shall be 50%.
- v. Dissertation has to be carried out as per the guidelines given in the curriculum.

c. Internship

1. Students have to complete internship semester during IV Semester.
2. Internship work is assessed for 50 marks and 2 credits will be assigned.
3. Each student has to teach 10 lessons (5 lessons in pedagogy and 5 in foundations/elective courses).
4. Stay in a cooperating school along with BEd interns for one week and guide the students and observe the school processes thoroughly and engage in all school activities
5. Follow the detailed Guidelines provided in the curriculum.

d. MOOCs – online course

Each student has to complete two (2) credit any course of their choice related to teacher education or general course to enrich competencies. Course shall be selected from Swayam platform - any one MOOCs course with 2 credits.

It is mandate for all the students to complete one course on line MOOCs from Swayam by the end of Semester III

9. Internal Assessment Tests:

a. Field based Assignments/ Reports:

Every student shall submit one assignment per paper in a semester. The Topic for the assignment shall be allotted in the 6th week of instruction. The assignment shall be hand written (student's own handwriting). Total marks for the assignment are 5.

Students shall present field- based reports which is considered as one Internal assessment with 10 marks for each paper.

b. Seminars:

Every student shall give a seminar presentation (one in each Theory Paper) for about 10 minutes which will be evaluated for 05(five) marks by two internal jury members appointed by the Principal of the College concerned. Out of these 5 marks, 2 marks shall be allotted for the write up of the topic.

The paper for internal assessment tests is set by the teacher(s) who is (are) teaching the subject/paper in that semester.

1. Procedure for Conduct of Internal Assessment:

a. The Internal Assessment Examinations, outlined in Annexure-1, are conducted during regular class hours and are spread across a week.

b. Each course/subject is assigned to a specific weekday, aligning with the timetable distributed for the four monthly Internal Assessment tests.

c. Concurrently, the remaining scheduled class work will continue without interruption.

2. Procedure for Internal Assessment Evaluation:

a. The Chief Superintendent of Exams / Principal/ Head of Department (HoD)/ or Exam Coordinator must promptly upload student attendance for assessment tests on the same day.

b. After completing each internal assessment exam, the assigned teacher reviews the response sheets and posts the marks directly on the sheets.

c. Following this, the evaluated response sheets are distributed to the students, ensuring the confirmation of unbiased marks assignment through the mandatory consent of a student signature on the response sheet.

d. In addition, the respective teacher is responsible for uploading attendance records and the corresponding Internal Assessment marks for each student during the designated slot in the almanac.

e. Without exception, the internal assessment evaluation must be finalized and uploaded to the university web portal within the stipulated period. Failure to comply may result in disciplinary action against the respective teacher.

f. If a student disputes the assessment, the matter will be directed to the departmental grievance redressal committee for resolution. Subsequently, the involved teacher is responsible for gathering all response sheets.

g- The custody of answer scripts/response sheets falls under the jurisdiction of the Head of the Department / Programme Coordinator in a sealed cover signed by the teacher concerned and securely storing them for a period of up to the next TWO years.

h. Further, there shall not be any re-examination/improvement for Continuous Assessment (CA) components.

10. End Semester Examinations (ESE):

The End Semester Examinations (ESE) for theory courses are conducted at the end of each semester of a Programme (Annexure-I). A centralized question paper is generated and dispatched to the respective colleges according to the specified examination schedule.

a. Eligibility for admission to the ESE: A student must have at least 80% lectures & 90% in engagement attendance in aggregate at the end of the semester.

b. If any student fails to meet the 80% attendance requirement but has more than 70% attendance, in such a case, the student must pay a condonation fee with a proper reason for the shortfall in attendance.

c. A student should obtain minimum aggregate of 40% marks in Continuous Assessment (CA) in all the courses covered under that semester.

d. Possession of the hall ticket, along with the timetable and room allotment, is obligatory for the ESE examination.

e. Eligible students can acquire their hall tickets through the College login portal, where they will be issued accordingly.

f. Assessment for Theory Courses: The End Semester Examination (ESE) for theory courses will be conducted for 50 marks and the duration of an ESE shall be two hours.

g. The registration number of the students is bar-coded, and it is pasted on the facing sheet of the answer booklet at the beginning of the examination

NOTE:

Differently-abled students (Hearing impaired; visually impaired & orthopedically impaired): The differently-abled students shall complete all the Practicum which includes Dissertation, Internship, Records, and other field engagement on par with normal students.

The marks secured by the student in the Internal tests, assignments, Seminars, Internship, Dissertation and semester-end examinations are converted into SGPA and CGPA.

Annexure I
Model Template for Internal Assessment & End Semester Examination
Max Marks: 40

1st Internal Assessment - 10 marks	2nd Internal Assessment 10 Marks	3rd Internal Assessment 10 Marks	4th Internal Assessment 10 Marks
1)10 Questions – ½ Marks each MCQ-5 Marks 2) 10 Questions Mark each Fill in the blanks-5 Marks	Short Answers Questions - 10 Questions- 1 Mark each	Report Writing-10 Marks (or) Two Paraphrasing's - 5 Marks. each (or) Book review/Article review/ Reflective journal	1) Assignment- 5 Marks 2) Seminar Presentation - 5 Marks

Model Question Paper End Semester Examination (ESE)

Time: 2 Hrs.

Max Marks: 50

PART- A
Fundamental Concepts (Choose All)
Attempt/Answer all Questions (5 x 2) = 10 Marks

- (1) Question No. 1 Recall - 2 Marks.
- (2) Question No. 2 Recall-2 Marks
- (3) Question No. 3- Understanding-2 Marks
- (4) Question No. 4- Understanding - 2 Marks
- (5) Question No. 5-Application-2 Marks

PART-B
Higher-Order Thinking Skills based
Attempt all Questions (5 x 8) = 40 Marks

(6) Question No. 6: Application of Fundamental Concepts

- a. Question-1-Application-4 Marks
- b. Question-2-Analysis - 4 Marks

(7) Question No. 7: Critical Thinking

- a. Question-1-Analysis-4 Marks
- b. Question-2-Evaluation - 4 Marks

(8) Question No. 8: Practical Problem Solving

- a. Question-1 Application - 4 Marks
- b. Question-2-Synthesis 4 Marks

(9) Question No. 9: Case Study Examination.

- a. Question-1-Analysis - 4 Marks
- b. Question-2-Evaluation-4 Marks

(10) Question No. 10: Synthesis of Knowledge

- a. Question-1 Synthesis 4 Marks
- b. Question-2-Evaluation 4 Marks

Model question paper semester end examination (CSE)

Time: 1 Hr.

Max Marks: 25

PART- A

Fundamental Concepts (Choose All)

Attempt/Answer all Questions (5 x 2) = 10 Marks

- (1) Question No. 1 Recall - 2 Marks.
- (2) Question No. 2 Recall-2 Marks
- (3) Question No. 3- Understanding-2 Marks
- (4) Question No. 4- Understanding - 2 Marks
- (5) Question No. 5-Application-2 Marks

PART-B

Higher-Order Thinking Skills based

Attempt all Questions (3 x 5) = 15 Marks

(6) Question No. 6: Application of Fundamental Concepts

- a. Question-1-Application-2 Marks
- b. Question-2-Analysis - 3 Marks

(7) Question No. 7: Critical Thinking

- a. Question-1-Analysis-2 Marks

b. Question-2-Evaluation - 3 Marks

(8) Question No. 8: Practical Problem Solving

a. Question-1 Application - 2 Marks

b. Question-2-Synthesis 3 Marks