

MGM SCHOOL OF BIOMEDICAL SCIENCES (A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES)

(Deemed University u/s 3 of UGC Act 1956)

Grade "A⁺⁺"Accredited by NAAC

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CHOICE BASED CREDIT SYSTEM (CBCS) (Academic Year 2023 - 24) Curriculum for

B.Sc. Allied Health Sciences

B.Sc. Physician Assistant In Emergency & Trauma Care

Semester I to VIII

| | | | | OUTLIN | | SE CURF | RICULUN | Λ | | | | | | |
|-----------|---|----------------|-----------------|------------------|--------------------------------------|-------------------------|----------------|-----------------|-------------------|---|-----------------|--------------------------------------|-----------------------------------|-------|
| | | B | Sc. Phy | sician As | ssistant in E | mergen | y & Tr | auma Ca | re | | | | | |
| | | | | | Semest | er I | | | | | | | | |
| | | | | Credits/V | Veek | | | H | [rs/Seme | ster | | | Marks | |
| Code No. | Core Course | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total Credits (C) | Lecture (L) | Tutorial (T) | Practic al (P) | Clinical Posing/ Rotation (CP) | Total (hrs.) | Intern al Assem ent (IA) | Semeste r End Exam (SEE) | Total |
| | | | | | Theor | ry | | | | | | | | |
| BPA 101 L | Human Anatomy Part I | 2 | - | - | - | 2 | 30 | - | - | - | 30 | 10 | 40 | 50 |
| BPA 102 L | Human Physiology Part I | 2 | - | - | - | 2 | 30 | - | - | - | 30 | 10 | 40 | 50 |
| BPA 103 L | General Biochemistry & Nutrition | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 10 | 40 | 50 |
| BPA 104 L | Introduction to National Health Care System | 2 | - | - | - | 2 | 30 | - | - | - | 30 | 10 | 40 | 50 |
| | 1 | | | 1 | | | 1 | | | | 1 | | | |
| BPA 101 P | Human Anatomy Part I | - | - | 1 | - | - | - | - | 15 | - | 15 | - | - | - |
| BPA 102 P | Human Physiology Part I | - | - | 1 | - | - | - | - | 15 | - | 15 | - | - | - |
| BPA 103 P | General Biochemistry Nutrition | | - | 1 | - | - | - | - | 15 | - | 15 | - | - | - |
| BPA 105 P | Community Engagement & Clinical Visit (Including related practicals to the Parent course) | - | - | - | 24 | 8 | - | - | - | 360 | 360 | - | 50 | 50 |
| | | | | A | bility Enhancer | nent Cou | rse | | | | | | | |
| AEC 001 L | English & Communication skills | 4 | - | - | - | 4 | 60 | - | - | - | 60 | 10 | 40 | 50 |
| | | | | | Multidispllina | ry Course | | | | | | | | |
| MD 001 L | Envioronmental Sciences | 4 | - | - | - | 4 | 60 | - | - | - | 60 | 10 | 40 | 50 |
| | Total | 17 | 0 | 3 | 24 | 25 | 255 | 0 | 45 | 360 | 660 | 60 | 290 | 350 |

| | | | | OUT | LINE OF COUR | SE CUR | RICULU | М | | | | | | |
|------------------------|---|----------------|-----------------|------------------|-----------------------------------|-------------------------|----------------|-----------------|------------------|---|-----------------|------------------------------|----------------------------------|-------|
| | | | B.Sc. | Physicia | n Assistant in F | mergen | cy & T | rauma (| Care | | | | | |
| | | | | | Semes | ter II | | | | | | | | |
| | | | | Credits | Week | | | | Hrs/Sem | ester | | | Marks | |
| Code No. | Core Course | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total Credits (C) | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total (hrs.) | Internal Assement (IA) | Semester End Exam (SEE) | Total |
| | | | | | Theo | ory | | | | | | 1 | | |
| BPA 106 L | Human Anatomy Part II | 2 | - | - | - | 2 | 30 | - | - | - | 30 | 10 | 40 | 50 |
| BPA 107 L | Human Physiology Part II | 2 | - | - | - | 2 | 30 | - | - | - | 30 | 10 | 40 | 50 |
| BPA 108 L | General Microbiology | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 10 | 40 | 50 |
| BPA 109 L | Basic Pathology & Hematology | 4 | - | - | - | 4 | 60 | - | - | - | 60 | 10 | 40 | 50 |
| BPA 110 L | Introduction to Quality and Patient safety (Multidisciplinary/Interdisciplinary) | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 10 | 40 | 50 |
| | | | | | Pract | ical | | | | | | | | |
| BPA 106 P | Human Anatomy Part II | - | - | 1 | - | - | - | - | 15 | - | 15 | - | - | - |
| BPA 107 P | Human Physiology Part II | - | - | 1 | - | - | - | - | 15 | - | 15 | - | - | - |
| BPA 108 P | General Microbiology | - | - | 1 | - | - | - | - | 15 | - | 15 | - | - | - |
| BPA 109 P | Basic Pathology & Hematology | - | - | 1 | - | - | - | - | 15 | - | 15 | - | - | - |
| BPA 111 P | Community Engagement & Clinical Visit (Including related practicals to the Parent course) | - | - | - | 24 | 8 | - | - | - | 360 | 360 | - | 50 | 50 |
| | | | | | Skill Enhancement | Elective | Course | | | | | | | |
| SEC 001 L SEC 002 L | Medical Bioethics & IPR Human Rights & Professional Values | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 10 | 40 | 50 |
| | Total | 17 | 0 | 4 | 24 | 25 | 255 | 0 | 60 | 360 | 675 | 60 | 290 | 350 |

| | | | 0 | UTLINE O | F COUR | SE CURI | ricului | М | | | | | | |
|------------|---|----------------|-----------------|------------------|---|-------------------------|----------------|-----------------|------------------|---|-----------------|------------------------------|-------------------------------|-----|
| | | B | Sc. Phys | sician Assi | stant in E | mergen | cy & Tra | uma Care | • | | | | | |
| | | | | | Semeste | er III | | | | | | | | |
| | | | | Credits/We | ek | | | В | [rs/Semeste | er | | | Marks | |
| Code No. | Core Course | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total Credits (C) | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total (hrs.) | Internal Assement (IA) | Semester End Exam (SEE) | |
| | | | | | Theor | y | | | | | | | | |
| BPA 112 L | General Pharmacology | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 10 | 40 | 50 |
| BPA 113 L | Clinical Microbiology | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 10 | 40 | 50 |
| BPA 114 L | Obstetrics and Gynaecology | 4 | - | - | - | 4 | 60 | - | - | - | 60 | 20 | 8 0 | 100 |
| BPA 115 L | Clinical Medicine - I | 4 | - | - | | 4 | 60 | - | - | - | 60 | 20 | 80 | 100 |
| BPA 116 CP | PA Directed Clinical Education - 1 | • | - | - | 15 | 5 | - | - | | 225 | 225 | - | 50 | 50 |
| | | | | | Practic | als | | | | | | | | |
| BPA 113 P | Clinical Microbiology | - | - | 2 | - | 1 | - | - | 30 | - | 60 | 10 | 40 | 50 |
| BPA 114 P | Obstetrics and Gynecology | - | - | 4 | - | 2 | - | - | 60 | - | 60 | 10 | 40 | 50 |
| BPA 115 P | Clinical Medicine - I | - | - | 4 | - | 2 | - | - | 60 | - | 60 | 10 | 40 | 50 |
| | | | | Ge | neric Electi | ve Cours | e | | | | | | | |
| GEC 001 L | Pursuit of Inner Self Excellence (POIS) | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 10 | 40 | 50 |
| GEC 002 L | Organisational Behaviour | | | | | | | | | | | | | |
| | Total | 17 | 0 | 10 | 15 | 27 | 255 | 0 | 150 | 225 | 660 | 100 | 450 | 550 |

OUTLINE OF COURSE CURRICULUM B.Sc. Physician Assistant in Emergency & Trauma Care

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|------------|--|----------------|-----------------|------------------|---|----------------------|----------------|-----------------|------------------|---|-----------------|------------------------------|-------------------------------|-------|
| | | | | | Seme | ester IV | | | | | | | | |
| | | | | Credits/ | Week | | | I | Irs/Semes | ter | | | Marks | |
| Code No. | Core Course | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total Credits (C) | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total (hrs.) | Internal Assement (IA) | Semester End Exam (SEE) | Total |
| | | | | | T | ieory | | | | | | | | |
| BPA 117 L | General Surgery and Trauma | 4 | - | - | - | 4 | 60 | - | - | - | 60 | 20 | 8 0 | 100 |
| BPA 118 L | Anaesthesiology | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 20 | 80 | 100 |
| BPA 119 L | Paediatrics and Geriatrics | 2 | - | - | - | 2 | 30 | - | - | - | 30 | 20 | 80 | 100 |
| BPA 120 L | Clinical Medicine - II | 4 | - | - | - | 4 | 60 | - | - | - | 60 | 20 | 80 | 100 |
| BPA 121 CP | PA Directed Clinical Education - 2 | - | - | - | 15 | 5 | - | - | - | - | 225 | - | 50 | 50 |
| | | | | | Pra | cticals | | | | | | | | |
| BPA 117 P | General Surgery and Trauma | - | - | 4 | - | 2 | - | - | 60 | - | 60 | 10 | 40 | 50 |
| BPA 118 P | Anaesthesiology | - | - | 2 | - | 1 | - | - | 30 | - | 45 | 10 | 40 | 50 |
| BPA 119 P | Paediatrics and Geriatrics | - | - | 2 | - | 1 | - | - | 30 | - | 30 | 10 | 40 | 50 |
| BPA 120 P | Clinical Medicine - II | - | - | 4 | - | 2 | - | - | 60 | - | 60 | 10 | 40 | 50 |
| | Ability Enhancement Elective Course | | | | | | | | | | | | | |
| AEC 003 L | Computer and Applications | | | | | | | | | | | 10 | 40 | 50 |
| AEC 004 L | Biostatistics and Research Methodology | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 10 | 40 | 50 |
| | Total | 16 | 0 | 12 | 15 | 27 | 240 | 0 | 180 | 0 | 660 | 130 | 570 | 700 |

| | | | OUT | LINE OF | COURSE | CURRIC | CULUM | | | | | | | |
|-------------------------|--|----------------|-----------------|------------------|---|-------------------------|----------------|-----------------|------------------|---|-----------------|------------------------------|-------------------------------|-------|
| | | B.S | c. Physici | an Assista | ant in Eme | ergency | & Traur | na Care | | | | | | |
| | | | | 8 | Semester | V | | | | | | | | |
| | | | Cı | edits/Week | c C | | | H | rs/Semeste | r | | | Marks | |
| Code No. | Core Course | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total Credits (C) | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total (hrs.) | Internal Assement (IA) | Semester End Exam (SEE) | Total |
| BPA 122 L | 0 | 2 | | | 1 | 3 | 45 | | | | 45 | 20 | 80 | 100 |
| BPA 122 L BPA 123 L | Cardiology Nephrology | 3 | - | - | - | 2 | 30 | - | - | - | 45 | 20 | 80 80 | 100 |
| BPA 125 L BPA 124 L | | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 20 | 80 | 100 |
| BPA 124 L BPA 125 CP | Pulmonology PA Directed clinical education 3 | | | | 27 | 9 | 45 | _ | - | | 450 | | 50 | 50 |
| BPA 125 CP | PA Directed clinical education 5 | - | - | - | | y | - | - | - | - | 450 | - | 30 | 50 |
| BPA 122 P | Cardiology | | | 2 | Practical | 1 | | | 30 | | 30 | 10 | 40 | 50 |
| BPA 122 P BPA 123 P | Nephrology | | - | 2 | - | 1 | - | - | 30 | - | 30 | 10 | 40 | 50 |
| BPA 124 P | Pulmonology | - | _ | 2 | - | 1 | - | - | 30 | - | 30 | 10 | 40 | 50 |
| | | | | Core | Elective C | Course | | | | | | | | |
| CEC 005 L CEC 006 L | Basics of Clinical Skill Learning Hospital Operation Management | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 10 | 40 | 50 |
| | Total | 11 | 0 | 6 | 27 | 23 | 165 | 0 | 90 | 0 | 705 | 100 | 450 | 550 |

| | OUTLINE OF COURSE CURRICULUM | | | | | | | | | | | | | |
|------------|----------------------------------|----------------|-----------------|------------------|---|----------------------|----------------|-----------------|------------------|---|-----------------|------------------------------|-------------------------------|-----|
| | | | B.Sc. P | hysician | Assistant | in Emergency | / & Traun | na Care | | | | | | |
| | | | | | Sem | ester VI | | | | | | | | |
| | | | | Credits/V | Veek | | | Hı | s/Semeste | r | | | Marks | |
| Code No. | Core Course | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total Credits (C) | Lecture (L) | Tutorial (T) | Practical (P) | Clinical Posing/ Rotation (CP) | Total (hrs.) | Internal Assement (IA) | Semester End Exam (SEE) | |
| | | | | | T | heory | | | | | | | | |
| BPA 126 L | Neurology | 3 | - | - | - | 3 | 45 | - | - | - | 45 | 20 | 80 | 100 |
| BPA 127 L | Orthopedics | 2 | - | - | - | 2 | 30 | - | - | - | 30 | 20 | 80 | 100 |
| BPA 128 L | Gastroentrology | 3 | - | - | | 3 | 45 | - | - | | 45 | 20 | 80 | 100 |
| BPA 129 L | Emergency medicine | 4 | - | - | - | 4 | 60 | - | - | - | 60 | 20 | 80 | 100 |
| BPA 130 CP | PA Directed clinical education 4 | - | - | - | 24 | 8 | - | - | - | - | 360 | - | 50 | 50 |
| | | | | | P | ractical | | | | | | | | |
| BPA 126 P | Neurology | - | - | 2 | - | 1 | - | - | 30 | - | 30 | 10 | 40 | 50 |
| BPA 127 P | Orthopedics | - | - | 2 | - | 1 | - | - | 30 | - | 30 | 10 | 40 | 50 |
| BPA 128 P | Gastroentrology | - | | 2 | - | 1 | - | - | 30 | - | 30 | 10 | 40 | 50 |
| BPA 129 P | Emergency medicine | - | | 2 | - | 1 | - | - | 30 | - | 30 | 10 | 40 | 50 |
| | Total | 12 | 0 | 8 | 24 | 24 | 180 | 0 | 120 | 0 | 660 | 120 | 530 | 650 |

| | OUTLINE OF COURSE CURRICULUM B.Sc. Physician Assistant in Emergency & Trauma Care | | | | | | | | | | | | | |
|----------|--|---|---|---|----|----|---|---|----|------|------|-------|----|-----|
| | Semester VII & VIII | | | | | | | | | | | | | |
| | Credits/Week Hrs/Semester Marks | | | | | | | | | | | | | |
| Code No. | Code No. Core Course Tutorial Posing/ Total Lecture Tutorial Practical Posing/ Internal Semester End | | | | | | | | | | | Total | | |
| BPA 131 | B.Sc. PA Intemship (Semester VII) | - | - | 1 | 16 | 17 | - | - | 42 | 1008 | 1050 | 20 | 80 | 100 |
| BPA 132 | BPA 132 B.Sc. PA Intemship (Semester VIII) - - 1 16 17 - - 42 1008 1050 20 80 100 | | | | | | | | | | | | | |

Internship is for 12 months (July-December; January-June) after deducting for national holidays/Sick Holidays/ sundays + Examination), (6 days/week;8 Hours/day). Minimum of 21 weeks/semester. Students are encouraged to involve in community outreach activities as part of their clinical postings without absenting himself/herself for the other regular classes.

| (IA) for Sem | nent Exam Pattern ester VII & VIII ip Program) | S Exam | me of Univ Semester En ination (SE ester VII & | nd E) for | | l that w |) marks) o eightage be er followin | given to a | |
|----------------------------------|--|-----------|---|-----------------|--------|----------|---|------------|------|
| Internal exam | pattern: Total 20 ollowing breakup | Pract | rnship Proş ical exam p al 80 marks owing brea | attern: with | Attend | | ercentage | | arks |
| Description | Marks | | Description | • | | < 75 | | Ze | ero |
| Internal exam (at department) | 10 marks | | Case Study | 2 x15=30 M | | 75 | | | 5 |
| Viva | 5 marks | Q No 2 | Station | 3 x 5=15 | | 76-80 | | | 6 |
| Log Book | 5 marks | Q No 3 | VIVA | 15 M | | 81-85 | | | 7 |
| Total = | 20 Marks | QNo 4 | Log Book | 10 M | | 86-90 | | | 8 |
| | | QNo 5 | Attendance | 10 M | | 91-95 | | | 9 |
| | | Т | otal = 80 Mar | ks | | 96-10 |) | 1 | 10 |

B.Sc. Allied Courses Scheme of Examination Pattern

B.Sc. First Year (Semester I & II) w.e.f. (Academic Year 2023-24 onwards)

Internal Examination Pattern (Theory)

| Question type | No. of questions | Questions to be answered | Question X marks | Total marks |
|------------------|---|--------------------------------|---------------------|----------------|
| Short answers | 5 | 4 | 4 x 3 marks each | 12 marks |
| CIA | Seminar / p Assignment | | test (4 marks) | 8 marks |
| Total | 1 | | | 20 marks |

Note -20 marks to be converted to 10 marks weightage for submission to the university.

University Examination Pattern (Theory)

| Question Type | No. of Questions | Questions to be Answered | Question X marks | Total marks |
|-------------------|---------------------|-----------------------------|---------------------|----------------|
| Section A | | | | |
| Structured LAQ | 3 | 2 | 2X8 | 16 Marks |
| Short notes | 8 | 6 | 6X4 | 24Marks |
| Total | | | | 40 Marks |

Note: The exam pattern for Course "Community Engagement & Clinical Visit (Including Related Practicals To The Parent Course)" is as per Annexure No-1.

Annexure No-1

EVALUATION FORM FOR COMMUNITY ENGAGEMENT & CLINICAL VISIT (INCLUDING RELATED PRACTICALS TO THE PARENT COURSE)

Name of the Student:

Program/Course:

Semester:

Name of the Internal Faculty/Observer:

Name of the External Faculty/Observer:

| Sr. No. | Core Competencies | Marks Allotted | Marks Obtained |
|------------|---|-------------------|-------------------|
| 1. | Community Engagement/Educational Tour/Field work/Hospital visits/NSS (Report) | 15 | |
| 2. | Demonstrated understanding of responsibilities | | |
| 3. | Managed time effectively to meet deadlines | | |
| 4. | Communicated well with others (Staff members, Teacher, Patients, Community Members, etc) | 10 | |
| 5. | Demonstrated knowledge required to meet objectives | | |
| 6. | Completed required tasks as assigned by Teacher/Co- ordinator | | |
| 7. | Model making / Quiz/ Poster/Conference/ Seminar/ Presentation/Innovative Ideas Competition | 15 | |
| 8. | Attendance | 10 | |
| Tota | l Marks | 50 | |

Internal Faculty/Observer Signature:

Date:

External Faculty/Observer Signature:

Internal Examination Pattern UG Second & Third Year (Semester III to VI) (Approved in BOM 55/2018 dated, 27/11/2018)

Internal examination pattern UG (Second & Third Year) (Theory) : 20marks

| Question type | No. of questions | Questions to be answered | Question X marks | Total marks |
|---------------|------------------|-----------------------------|---------------------|-----------------|
| Long essays | 2 | 1 | 1x10 | 10 marks |
| Short answers | 3 | 2 | 2x5 | 10 marks |
| Total | | | | Total= 20 marks |

Marks should be submitted by respective departments at least 15 days prior to onset of university examination to the university.

Internal examination pattern UG (Second & Third Year) (Practical) : 10marks

| Internal exam (At department level) | 10 marks |
|-------------------------------------|--------------|
| Viva | 5 marks |
| Log book | 5 marks |
| Theory and practical | Total = 20 M |

Note -20 marks to be converted to 10 marks weightage for submission to the university.

University Examination Pattern UG Second & Third Year (Semester III to VI)

(Approved in BOM 55/2018 dated, 27/11/2018)

Theory Question Paper Pattern For Core Subjects in University Examinations (Second & Third year) Under CBCS - 80 Marks

| Question type | No. of questions | Questions to be answered | Question X marks | Total marks |
|----------------|---------------------|--------------------------|---------------------|--------------------|
| Section 1 | | | | |
| MCQ | 10 | 10 | 10x1 | 10 marks |
| Section 2 | | | | |
| Structured LAQ | 3 | 2 | 2x15 | 30 marks |
| Short notes | 6 | 5 | 5 x 8 | 40 marks |
| | | 1 | 1 | Total= 80 Marks |

General Instructions (Theory):

- A. Time duration of each Theory Paper will be of Three (3) Hrs or $1 \frac{1}{2}$ hrs as the case may be.
- B. Total Marks of each Theory Paper will be 80 Marks / 40 Marks.
- C. There will be TWO Sections in Question Paper. Section ONE will be MCQ while Section TWO will be long & short essay questions. There will be internal option.
- D. Both the Sections are compulsory.
- E. Both the sections are to be written in the separate answer sheet

Practical Question Paper Pattern For University Examinations Under CBCS - 40 Marks

| Exercise | Description | Marks |
|----------|------------------------|--------------|
| Q No 1 | Practical exercise - 1 | 1 x10=10 M |
| Q No 2 | Station exercise | 3x5M=15 M |
| Q No 3 | VIVA | 10 M |
| QNo 4 | Journal | 5 M |
| | | Total = 40 M |

General Instructions (Practical):

- A. All the students have to remain present at the examination centre 15 minutes before the scheduled time for examination.
- B. Students have to carry with them certified journal, I-card or examination receipt, and other necessary requirements for examination.
- C. Candidate should not leave the practical hall without the permission of examiner.
- D. Use of calculator is allowed but the use of mobile phones is strictly prohibited.
- E. The candidate has to leave the laboratory only after the submission of all the answer sheets of the exercises performed.

Internal Examination Pattern (Elective Subject)

UG (Second & Third Year) (Theory) : 20 marks

| Question type | No. of questions | Questions to be answered | Question X marks | Total marks |
|---------------|------------------|-----------------------------|---------------------|-----------------|
| Long essays | 2 | 1 | 1x10 | 10 marks |
| Short answers | 3 | 2 | 2x5 | 10 marks |
| Total | | | | Total= 20 marks |

Note -20 marks to be converted to 10 marks weightage for submission to the university.

Theory Question Paper Pattern For Elective courses under University exam for B.Sc. Second and Third year (semester III to V) (AY 2020-21 onwards) (Resolution No. 4.7 of Academic Council (AC-40/2021- Point no ii)

| Question type | No. of questions | Questions to be answered | Question X marks | Total marks |
|----------------|---------------------|--------------------------|---------------------|-------------|
| Structured LAQ | 3 | 2 | 2x10 | 20 marks |
| Short notes | 5 | 4 | 4 x5 | 20 marks |
| Total | | | 40 Marks | |