

TILAK MAHARASHTRA VIDYAPEETH (TRUST)
LOKMANYA MEDICAL COLLEGE OF PHYSIOTHERAPY

Affiliated to MUHS

Plot No. 3, Sector 14, Near Raghunath Vihar, Kharghar, Navi Mumbai 410210.

Email ID: lokmanyamcop@gmail.com/administration@lmcop.edu.in

Web Site: <http://www.lmcop.edu.in>

PRELIMINARY EXAMINATION 2ND YEAR BPT^H 2018-19
PATHOLOGY & MICROBIOLOGY

Total Duration: Section A+B = 3 hours

Date: 12/04/2019

Total Marks: 80

Instruction:

1. Use blue/black ball point pen only.
 2. Do not write anything on the blank portion of the question Paper. If written anything, such type of act will be considered an attempt to resort to unfair means.
 3. All questions are compulsory.
 4. The number to the right indicates full marks.
 5. Draw diagrams wherever necessary.
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 7. Use a common answer book for all Section.
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SECTION – A SAQ (50 Marks)
(Pathology)

A. Short answer questions (Any five out of six) : (5x7=35)

1. Define neoplasia write the difference between benign and malignant tumors.
2. Define hypersensitivity reaction describe type Iv hypersensitivity reaction with example.
3. Enumerate the laboratory finding of iron deficiency anemia.
4. Short note on COPD.
5. Short note on grave disease.
6. Describe vitamin E deficiency.

B. Long answer question (Any one out of two) (1x15=15)

1. Define pneumonia write the etiopathogenesis type gross and microscopic feature of pneumonia.
2. Define meningitis write organism causing meningitis. Describe CSF finding in pyogenic and tuberculous meningitis.

SECTION – B LAQ (30 Marks)

(Microbiology)

C. Short answer questions (Any three out of four) :

(3x5=15)

1. Write short note on Bacterial Cell Wall. Draw and label Gram positive and Gram negative cell wall.
2. Define innate immunity. Classify innate immunity. Describe the mechanism of innate immunity.
3. Describe the laboratory diagnosis of Mycobacterium tuberculosis.
4. Write in brief the Morphology, Pathogenicity, and laboratory diagnosis of Candida albicans.

D. Long answer question (Any one out of two)

(1x15=15)

1. Draw and label HIV (Human immunodeficiency virus). Describe the pathogenicity, Clinical features, and Laboratory diagnosis of HIV.
2. Define Sterilisation, Disinfection and Antisepsis. Enumerate principles, and specific use of Dry heat and moist heat sterilisation methods giving appropriate examples in Health care institution.

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PRELIMINARY EXAMINATION 2ND YEAR BPT^h 2018-19
ELECTROTHERAPY

Total Duration: Section A+B = 3 hours

Date: 10/04/2019

Total Marks: 80

Instruction:

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 7. Use a common answer book for all Section.
-

SECTION – A SAQ (50 Marks)

1. Short answer questions (Any five out of six) (5X3=15)
 1. Explain Phonophoresis.
 2. Describe in brief diadynamic currents.
 3. Enumerate the indications for LASER therapy.
 4. Differentiate between Faradic and Galvanic currents.
 5. Describe any three ions for relief of pain, used in Iontophoresis.
 6. Any three indications and three contraindications of Ultrasound.

2. Short answer questions (Any five out of six) (5X7=35)
 1. Biofeedback
 2. Discuss physiological and therapeutic effects of UVR
 3. Explain wound care and elaborate the electrotherapeutic modalities used for wound care.
 4. Describe the therapeutic effects on ultra sound & add note on coupling media.
 5. Explain the technique of applications for faradism under pressure along with its indication and principles.
 6. Define normal SD curve along with its characteristics and draw curves for partial and denervated curves along with its explanation

SECTION – B LAQ (30 Marks)

3. Long answer question (any 1 out of 2)

(15 marks)

1. Explain the types of SWD along with its methods of application in detail. Write a note on its physiological effects along with the dangers and precautions. (2+7+6)
2. Discuss in detail about the physiological and therapeutic effects of Faradic Currents. Explain about faradic re-education with its technique and principle of application. Write a short note on strong surge faradic current. (7+6+2)

4. Long answer question (any 1 out of 2)

(15 marks)

1. Define iontophoresis. Explain the indications and contraindications along with its precautions and dangers. explain the method of application and its principles. (2+7+6)
2. Define interferential therapy and its types. State its physiological effects, indications, contraindications. Write a note on Russian currents. (6+6+3)

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PRELIMINARY EXAMINATION 2ND YEAR BPTb 2018-19
KINESIOTHERAPY

Total Duration: Section A+B = 3 hours

Date: 18/04/2019

Total Marks: 80

Instruction:

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 7. Use a common answer book for all Section.
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SECTION – A SAQ (50 Marks)

A. Short answer questions (Any five out of six) :

(5x3=15)

1. Define stress and strain.
2. Pursed lip breathing.
3. Contradiction of cervical traction.
4. Muscle required for crutch walking.
5. Principle of Proprioceptive Neuromuscular Facilitation (PNF).
6. 3 types of trick movement with example.

B. Short answer question. (Any five out of six)

(5X7=35)

1. Frenkle's exercise.
2. Describe Mat exercise – program from supine to sitting.
3. Discuss physiological effects, indications & contraindication of hydrotherapy.
4. Write on different types of crutch gaits.
5. Diaphragmatic Breathing exercise
6. Explain types of contractions.

SECTION – B LAQ (30 Marks)

C. Long answer question. (Any one out of two)

(1x15=15)

1. Define joint mobility. Explain indications & contraindications of mobility exercise. Give different mobility technique for knee joint. **(10+5)**
2. Describe principles of muscle strengthening. Discuss different regimes of progressive resisted exercise. **(15)**

D. Long answer question. (Any one out of two)

(1x15=15)

1. What is postural drainage? Write indication & contraindication of postural drainage. Write about manual techniques used in postural drainage. **(2+5+10)**
2. Define posture. Describe evolution of posture in humans. Enumerate & discuss the factors affecting normal posture. **(10+5)**

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PRELIMINARY EXAMINATION 2ND YEAR BPT^H 2018-19

PHSYCHIATRY (INCLUDING PSYCHOLOGY)

Total Duration: Section A+B = 2 hours

Date: 20/04/2019

Total Marks: 40

Instruction:

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7. Use a common answer book for all Section.

A. Short answer questions (Any five out of six) : (5X3=15)

1. What is memory? Explain information processing theory of memory.
2. Explain motivation. Briefly describe different theories of motivation.
3. How does conflict leads to frustration? Explain different types of defense mechanisms.
4. What is perception? Explain the principles of perceptual organization.
5. What is learning? Mention different types of learning.
6. What is forgetting?

B. Short answer questions (Any five out of six) : (5X5=25)

1. Discuss management of Schizophrenia.
2. Describe clinical presentation of Parkinson's disease and discuss its management in short.
3. Mention the criteria for diagnosis of drug dependence and discuss management of Alcohol Dependence.
4. Discuss management of Autism.
5. Discuss psychiatric consequences of social media in youth.
6. Discuss clinical features of Post Traumatic Stress Disorder(PTSD) in detail.

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PRELIMINARY EXAMINATION 2ND YEAR BPT^H 2018-19
KINESIOLOGY

Total Duration: Section A+B = 3 hours

Date: 22/04/2019

Total Marks: 80

Instruction:

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4. The number to the right indicates full marks.
5. Draw diagrams wherever necessary.
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7. Use a common answer book for all Section.

SECTION – A SAQ (50 Marks)

A. Short answer questions. (Any five out of six)

(5x3)

1. Young's Modulus.
2. Nutation & counter nutation.
3. Joint reaction force.
4. Open Kinematic (OKC) & Close Kinematic chain (CKC) with one eg. Of each.
5. Cora Co-acromial arch.
6. Intervertebral disc in cervical spine.

B. Short answer questions. (Any five out of six)

(5x7)

1. Types of Muscle action.
2. Pump handle & Bucket handle movement.
3. Extensor mechanism of hand.
4. Motions of patella.
5. Supination verses pronation twist.
6. Describe Kinematics & Kinetics of the movement 'overhead pull using both arms in standing position.'

SECTION – B LAQ (30 Marks)

C. Long answer question. (any 1 out of 2)

1. Describe kinetics & kinematics of Tibiofemoral joint. Write a note on patellar influence of quadriceps muscle function. (10+5)

OR

Describe the Kinetics & Kinematics of Lumber spine. Add a note on significance of Thoraco Lumbar fascia on spinal stability. (8+7)

2. Define Gait. Phases of Gait cycle. Describe the Kinetics & Kinematics of Gait in sagittal plane. (2+5+8)

OR

Kinetics & Kinematics of Gleno humeral joint. Write a short note on Scapulo-humeral rhythm. (10+5)

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TERMINAL EXAMINATION 2ND YEAR BPh 2018-19
PHARMACOLOGY

Total Duration: Section A+B = 2 hours

Date: 14 /01/2019

Total Marks: 40

Instruction:

1. Use blue/black ball point pen only.
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4. The number to the right indicates full marks.
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7. Use a common answer book for all Section.

SECTION – A SAQ (40 Marks)

A. Short answer questions (Any five out of Six) :

(5x3=15)

1. Write significance of Plasma protein binding.
2. Enumerate Benzodiazepines. Give uses of Diazepam.
3. Define ADR. Enumerate any 4 with examples.
4. Classify Beta blockers. Discuss its uses.
5. Enumerate various uses and adverse effects of Glucocorticoids.
6. Mention antiparkinsonian drugs. Add a note on drug induced parkinsonism.

B. Short answer questions (Any five out of Six) :

(5x5=25)

1. Discuss the various Factors modifying drug action.
2. Classify peripheral skeletal muscle relaxants. Write the differences between d-tc and succinyl choline.
3. Enumerate drugs for Bronchial asthma. Discuss Bronchodilators in detail.
4. Classify drugs for peptic ulcer. Write mechanism of action and uses of proton pump inhibitors.
5. Classify NSAIDs. Write its mechanism of action and uses.
6. Classify Anticholinesterases. Discuss the modalities of treatment of myasthenia Gravis.

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TERMINAL EXAMINATION 2ND YEAR BPT^H 2018-19

Kinesiology

Total Duration: Section A+B = 3 hours

Date: 21/01/2019

Total Marks: 80

Instruction:

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4. The number to the right indicates full marks.
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7. Use a common answer book for all Section.

SECTION – A SAQ (50 Marks)

1. Short answer questions (any five out of six)

(3x5=15)

- a) Define Young's Modulus.
- b) Write the role of anatomic pulleys and give one example.
- c) Define torque and state its relation with moment arm.
- d) Define osteokinematics and arthrokinematics.
- e) State concave-convex rule.
- f) Define step length and step width.

2. Short answer question (any five out of six)

(7x5=35)

- a) Differentiate between open and closed kinematic chain.
- b) Describe kinetics and kinematics of squatting.
- c) Describe types of muscle contraction.
- d) Describe parts of axillary crutch. Explain different types of walking patterns using crutches.
- e) Describe Locking and unlocking of knee joint and describe Q angle.
- f) Define joint play. Differentiate between closed packed and open packed position.

SECTION B LAQ (30 marks)

(1x15=15)

3. Long answer question (any one out of two)

- a) Describe the human gait under following headings:
 - I. Define gait
 - II. Describe phases of gait cycle.
 - III. Explain kinetics and kinematics of gait at hip-knee-ankle.
- b) Describe kinetics and kinematics of the shoulder joint. Add a note on the scapulothoracic rhythm.

(1x15=15)

4. Long answer question (any one out of two)

- c) Describe kinetics and kinematics of the lumbar spine. Add a note on thoracolumbar fascia instability of the lumbopelvic region.
- d) Describe plantar arches. Write its function. Add a note on the muscle contribution to the arches.

X-X-X-X-X-X-X

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TERMINAL EXAMINATION 2ND YEAR BPT^h 2018-19
PSYCHOLOGY AND PSYCHIATRY

Total Duration: Section A+B = 2 hours

Date: 18/01/2019

Total Marks: 40

Instruction:

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Q. A. Short answer Question. (Any five out of six)

(5x3=15)

1. Define Psychology. Briefly discuss the fields of Psychology.
2. Discuss Erik Erikson's theory of Psychosocial development. Explain the stage with the question "who am I"?
3. Explain the stages proposed by Piaget in his theory of cognitive development.
4. Explain classical conditioning and briefly discuss its sub principles.
5. Elucidate the important features of observational learning.
6. Explain the Use of psychology in physiotherapy.

Q.B. Short answer question. (Any five out of six)

(5x5=25)

1. Define delusion. Discuss various types of delusions.
2. Discuss the role of rehabilitation in management of Schizophrenia.
3. Discuss clinical presentation of a patient with Alzheimer's Dementia.
4. Discuss Somatization disorder in brief.
5. Side effects of first generation antipsychotics.
6. Clinical features of a panic attack and how to manage it?

X-X-X-X-X-X-X-X

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TERMINAL EXAMINATION 2ND YEAR BPT^h 2018-19
PATHOLOGY AND MICROBIOLOGY

Total Duration: Section A+B = 3 hours

Date: 16/01/2019

Total Marks: 80

Instruction:

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-

SECTION – A SAQ (50 Marks)

Q. A. Short Answer Question. (Any five out of six)

(5x7=35)

1. Define necrosis. Describe the type of necrosis.
2. Write the short note on myasthenia gravis.
3. Write a short note on gangrene.
4. Define Inflammation. Write in brief vascular & cellular event in acute inflammation.
5. Short note on calcification and its type.
6. SLE

Q.B. Long Answer Question. (Any one out of two)

(1x15=15)

1. Classify Muscular Disorder. Discuss muscular dystrophies in details.
2. Define and classify anemia, describe the laboratory investigation of nutritional anemia.

SECTION - B (30 marks)

Q.C. Short Answer Question (any three out of four) : **(3X5=15marks)**

1. Contributions of Robert Koch to Microbiology and write Koch's postulates.
2. Discuss pathogenesis and laboratory diagnosis of Neisseria meningitides.
3. Discuss diseases caused by Staphylococcus aureus.
4. Describe Type I Hypersensitivity reactions

Q.D. Long answer question (any one out of two): **(1x15=15marks)**

1. Define Sterilization and disinfection. Classify Sterilization. Discuss moist heat sterilization.
2. Define Immunity. Discuss innate and acquired immunity in detail.

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TERMINAL EXAMINATION 2ND YEAR BPT^H 2018-19
ELECTROTHERAPY

Total Duration: Section A+B = 3 hours

Date: 25/01/2019

Total Marks: 80

Instruction:

1. Use blue/black ball point pen only.
2. Do not write anything on the blank portion of the question Paper. If written anything, such type of act will be considered an attempt to resort to unfair means.
3. All questions are compulsory.
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SECTION – A SAQ (50 Marks)

Q. A. Short Answer Question. (Any Five out of Six)

(5x3=15)

1. Define Galvanic and Interrupted galvanic current.
2. Define Chronaxie and rheobase.
3. Sub erythema dosage of UVR.
4. Characteristic of denervated SD curve.
5. Define motor points.
6. Define cavitation and acoustic streaming.

Q. B. Short Answer Question. (Any Five out of Six)

(7x5=35)

1. Describe methods of application of Ultra Sound.
2. Describe characteristics of normal intervened strength duration curve.
3. Describe the various types of TENS.
4. Explain in details the rational and treatment technique of Faradism under pressure.
5. Describe pain gate theory.
6. Describe therapeutic effects of faradic current.

SECTION – B LAQ (15 Marks)

Q. C. Long Answer Question – Any out of two

(15*1=15)

1. With respect to Ultra violet radiation write its type, describe physiological effects, methods of calculation of test dose. (3+6+6)
2. Discuss physiological and therapeutic effect of ultrasound. Discuss phonophoresis. Discuss its indications. (7+5+3)

Q. D. Long Answer Question. (Any out of two)

(15*1=15)

1. Define IFT write its methods of application, indications and contra indications.
2. Define Iontophoresis. Explain its principles and methods of applications. Enlist any five IONS that can be applied using Iontophoresis. (2+3+10)

X-X-X-X-X-X-X-X

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TERMINAL EXAMINATION 2ND YEAR BPT^h 2018-19

KINESIOTHERAPY

Total Duration: Section A+B = 3 hours

Date: 23/01/2019

Total Marks: 80

Instruction:

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 7. Use a common answer book for all Section.
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SECTION – A SAQ (50 Marks)

Q.A. Short Answer Question. (Any five out of six)

(3x5=15)

1. Trick movements
2. Overload principle
3. De-lorme's protocol of PRE.
4. Isokinetic muscle contraction.
5. End-feel
6. Active and Passive insufficiency of muscle.

Q.B. Short Answer Question. (Any five out of six)

(7x5=35)

1. Static, Dynamic and Ballistic stretching of gastrocnemius muscle.
2. Nebulizers and types of Nebulizers.
3. Define Gait and explain Gait parameters.
4. Vis co-elasticity in connective tissue.
5. Physiological derivations in standing posture.
6. Principles of MMT.

SECTION – A LAQ (30 Marks)

Q.C. Long Answer Question. (Any one out of two)

(2x15=30)

1. Define stretching. Types of stretching. Adjust to stretching. **(4+9+2)**
2. What is mobility and what are causes of joint hypomobility. Explain mobility exercises for shoulder abduction diagrams. **(2+4+9)**

Q.D. Long Answer Question. (Any one out of two)

(2x15=30)

1. Define posture. Describe standing postural analysis in sagittal and frontal view, both anteriorly and posteriorly and on both sides. **(2+13)**
2. Describe principles of strengthening. Design a exercise programme to train vastus medialis oblique (VMO) from grade 0 to 5. **(6+9)**

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PRELIMINARY EXAMINATION 2ND YEAR BPTb 2018-19
ELECTROTHERAPY

Total Duration: Section A+B = 3 hours

Date: 10/04/2019

Total Marks: 80

Instruction:

1. Use blue/black ball point pen only.
 2. Do not write anything on the blank portion of the question Paper. If written anything, such type of act will be considered an attempt to resort to unfair means.
 3. All questions are compulsory.
 4. The number to the right indicates full marks.
 5. Draw diagrams wherever necessary.
 6. Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 7. Use a common answer book for all Section.
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SECTION – A SAQ (50 Marks)

1. Short answer questions (Any five out of six) (5X3=15)
 1. Explain Phonophoresis.
 2. Describe in brief diadynamic currents.
 3. Enumerate the indications for LASER therapy.
 4. Differentiate between Faradic and Galvanic currents.
 5. Describe any three ions for relief of pain, used in Iontophoresis.
 6. Any three indications and three contraindications of Ultrasound.

2. Short answer questions (Any five out of six) (5X7=35)
 1. Biofeedback
 2. Discuss physiological and therapeutic effects of UVR
 3. Explain wound care and elaborate the electrotherapeutic modalities used for wound care.
 4. Describe the therapeutic effects on ultra sound & add note on coupling media.
 5. Explain the technique of applications for faradism under pressure along with its indication and principles.
 6. Define normal SD curve along with its characteristics and draw curves for partial and denervated curves along with its explanation

SECTION – B LAQ (30 Marks)

3. Long answer question (any 1 out of 2) (15 marks)

1. Explain the types of SWD along with its methods of application in detail. Write a note on its physiological effects along with the dangers and precautions. (2+7+6)
2. Discuss in detail about the physiological and therapeutic effects of Faradic Currents. Explain about faradic re-education with its technique and principle of application. Write a short note on strong surge faradic current. (7+6+2)

4. Long answer question (any 1 out of 2) (15 marks)

1. Define iontophoresis. Explain the indications and contraindications along with its precautions and dangers. explain the method of application and its principles. (2+7+6)
2. Define interferential therapy and its types. State its physiological effects, indications, contraindications. Write a note on Russian currents. (6+6+3)

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PRELIMINARY EXAMINATION 2ND YEAR BPT_h 2018-19
PHARMACOLOGY

Total Duration: Section A+B = 2 hours

Date: 10/04/2019

Total Marks: 40

Instruction:

1. Use blue/black ball point pen only.
 2. Do not write anything on the blank portion of the question Paper. If written anything, such type of act will be considered an attempt to resort to unfair means.
 3. All questions are compulsory.
 4. The number to the right indicates full marks.
 5. Draw diagrams wherever necessary.
 6. Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
 7. Use a common answer book for all Section.
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SECTION – A SAQ (15 Marks)

A. Short answer questions (Any five out of six) : (5X3=15)

1. Define Bioavailability of a drug. Mention four factors affecting bioavailability.
2. Enumerate Bronchodilators. Write drug treatment of status asthmaticus.
3. Write two therapeutics uses and adverse effects of Adrenaline.
4. Define term analgesic. Give four difference between Opioid and non-Opioid analgesics.
5. Enumerate parenteral iron preparation. Mention indications of it.
6. Enumerate 2 prokinetic agents? Write their mechanism of action.

SECTION – B LAQ (25 Marks)

B. Long answer questions (Any five out of six) :

(5X5=25)

1. Classify anti-tubercular drugs. Write a note on therapeutic uses and adverse effects of Rifampicin.
2. Write therapeutic uses and adverse effects of Insulin.
3. Classify skeletal muscle relaxant. Write therapeutic uses and adverse effects of Succinylcholine.
4. Enumerate anti-Anginal drugs. Explain mechanism of action and adverse effects of Nitrates.
5. Define term broad-spectrum antibiotics. Write Mechanism of action, therapeutics uses and adverse effects of Tetracycline. (any two)
6. Describe mechanism of actions, therapeutic uses and adverse effects of Aspirin.

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