

SPECIALTY: PHYSIOTHERAPY (PHY)

PAPER: CASE STUDY

Credit Value: 14

Duration: 06 HRS

Objective/s of the paper: To assess critical thinking of student's knowledge, approach to diagnosis of physiotherapy ailments, application of knowledge in real life scenarios, application of specific tests, analysis and evaluation Nature of the Exam: written Format of the Exam:

Exam Paper	Option	Different sections of the paper	Duration per section	Mark allocated	Percentage (%)
CASE STUDY	PHY	FIVE ESSAY QUESTIONS TO ANSWER	1 HR PER QUESTION	20(MARKS PER QUESTION) X 5	20% PER QUESTION
TOTAL MARK				100	100

Contents of the Different Sections of the Paper:

☐ Special methodology of physiotherapy

1. Cardiorespiratory
2. Orthopedic
3. Traumatology
4. Rheumatology
5. Neurology
6. Depth Question of Rehabilitation
7. Psychiatry
8. Uro-gynecology
9. Vascular (arterial, venous and lymphatic)
10. Oncology including palliative care

☐ Pathology and functional rehabilitation surgical special of the child

1. Traumatology
2. Bone Infections (osteomyelitis)
3. Pathology of the Hip (dislocation, spur physiology)
4. Pathology of Engineering (diseases of growth, genuvalgum/valgus, subluxation, influence of sport)
5. Pathology of the foot (positional foot, foot Bot, hollow foot, Flat Foot)
6. Inequality of length (origin and treatment)
7. Pathology of the upper member (obstetric paralysis, congenital malformations)
8. Pathology of the

□ □ Pathology Medical special of the child:

1. The Pediatrics of is the medicine of the child. That is to say the science of the development of the Healthy Child and ill, often linked to the confrontation between a genetic program and its physical environment social and
2. As regards the pathology, the course is specifically oriented toward the disorders of growth and puberty, the risks related to the environment, obesity, respiratory, neuromuscular, Diabetes

□ □ Special pathology rheumatic disease, physio Technical, including elements radiological and practical work of physio technique

1. The various physical methods used for therapeutic purposes (to the exclusion of the radiotherapy): electrotherapy, use of electromagnetic waves, cryotherapy, Hydrotherapy.
2. The rheumatic pathology: Infectious arthritis and inflammatory, arthritis, degenerative diseases (osteoarthritis, articular rheumatism, tendonitis, bursitis, etc.), bone diseases (osteoporosis, osteomalacia, Paget; etc.) vertebral column (scoliosis, kyphosis, spondylolysis

□ □ Special methodology of Physiotherapy

□ □ Special gynecological pathology

1. Reproductive Endocrinology, puberty, pregnancy, menopause
2. Physiology of pregnancy, fertilization, post-partum
3. The pain in the course of the work and its treatment
4. Affection gynecological surgical stress urinary incontinence
5. The implementation of the actions of health promotion
6. Evaluation of health promotion.

□ History of the Physiotherapy:

1. Physiotherapy in the 17th century
2. The physiotherapy and its evolution up to our days
3. The design of the physiotherapy in Asia, in Europe, in America
4. The physiotherapy, its evolution in Cameroon
5. Evidence physiotherapy

□ General methodology of the physiotherapy and rehabilitation:

1. Humanist approach of the patient
2. Palpation and tactile perception
3. Elements of the clinical examination of the patient
4. Massage
5. Specific methodology of research in physiotherapy: Introduction to Climate The 2D, 3D related to the human body. Different methods of relaxation

☐ Motor activities and adaptation including the psychomotricity:

1. Fundamental gymnastics and soft gymnastics
2. Psychomotricity
3. Implementation Physical Condition
4. Swimming
5. Initiation to the basketball
6. Handling

☐ First aid

- The principles of first aid;
- Injuries;
- First Aid in case of: ☐ ☐ Fracture,
☐ ☐ Hemorrhage,
☐ ☐ Sprains,
☐ ☐ Burns;
☐ ☐ Asphyxiation,
☐ ☐ Poisoning;
☐ ☐ Bite of beast, etc.
- Cardiorespiratory massage.

☐ Applied psychology to the physiotherapy

1. Motivation to short and long term
2. Study of emotions and emotional reactions in a situation of physiotherapy
3. Patient Relationship unto physiotherapy
4. Psychology of the disabled
5. Psychomotricity
6. Foundation of the psychomotricity
7. Body Diagram
8. Spatializer
9. Organization-temporal.

☐ Methodology of physiotherapy and rehabilitation

1. The theory and practice of articular mobilizations (members and spine)
2. Methodology of the CCA (muscle, articular, functional, quality of life)
3. Methodology of the physiotherapy and rehabilitation (of muscle strengthening and stretching and postures)
4. Mechanical adjuvants in physiotherapy
5. General principles of rehabilitation

☐ ☐ Elements of materials and methodology of motor activities

6. Didactic concepts of basis

7. Fundamental Positions - Movements

8. Description of exercises unto practical aspects of presentation of the exercises and correction: work with video and auto correction.

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☐ Apparatus and prosthesis in Physiotherapy:

1. Prostheses senior members and lower limbs and orthotics

2. Apparatus for the disabled and their revalidation 10.

The implementation of the actions of health promotion

11. Evaluation of health promotion.

☐ ☐ Apparatus and prosthesis in Physiotherapy

1. Prostheses senior members and lower limbs and orthotics

2. Apparatus for the disabled and their revalidation

☐ ☐ Implementation professional situation related to special pathologies I

☐ ☐ Implementation professional situation related to special pathologies II

PAPER: PHYSIOTHERAPY SCIENCE

Credit Value: 5

Objective/s of the paper: To assess the student's knowledge and understanding of physiotherapy principles

Nature of the exam: written Format
of the Exam:

Exam Paper	Option	Different sections of the paper	Duration	Mark	(%)
PHYSIOTHERAPY SCIENCES	PHY	Section A: MCQs	60minutes	20	20
		Section B: Structural questions	30minutes	20	20
		Section C: Short essay questions	45minutes	30	20
		Section D: Long essay questions	45minutes	30	40
TOTAL MARK				100	100

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- First Aid in case of: ☐☐Fracture,
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☐☐Sprains,
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☐☐Poisoning;
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- Cardiorespiratory massage.

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PAPER: PHYSIOTHERAPY PATHOLOGY

Credit Value: 5

Objective/s of the paper: To assess the student's knowledge and understanding on basic pathophysiology of various pathologies, and explain and relate pathological changes and clinical features resulting from these pathologies. Nature of the Exam: Written Format of the Exam:

Exam Paper	Option	Different sections of the paper	Duration per section	Mark	(%)
PHYSIOTHERAPY PATHOLOGY	PHY	Section A: MCQs	30MINUTES	15	20
		Section B: structural questions	45MINUTES	20	20
		Section C: short essay questions	45MINUTES	25	20
		Section D: long essay question	75MINUTES	40	40
TOTAL MARK				100	100

Contents of the different sections of the paper:

☐ Special pathologies and specific physiotherapy

1. Pathology respiratory Special

- Physiological reminder of the complications respiratory functional with means of assessment and therapeutic opportunities, including using the physiotherapy;
- Review of major respiratory syndromes and the respiratory pathology common, the emphasis being on the Diseases obstructive and restrictive.

2. Special pathology cardiac vascular and

- Disease of the Heart and Vessels General characteristics, methods of diagnosis, treatment principles;
- Importance of the prevention and rehabilitation of cardiovascular disease.

3. Neuromuscular, including seminars

- Affection of the muscle and of peripheral nerve;
- Spinal cord injury trauma or other;
- Consequences of the lesions of the central nervous system interesting;
- Brain structures and cerebellar; Overview of the development of the engine of the infant and its implications in the genesis of the Cerebral Palsy

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PAPER: PHYSIOTHERAPY PRACTICAL

Credit Value: 10

Objective/s of the paper: To assess the student's skills, knowledge, attitude and mastery in carrying out different physiotherapy techniques Nature of the Exam: Practicals Format of the Exam:

Exam Paper	Option	Different sections of the paper	Duration per section	Mark allocated	Percentage (%)
PHYSIOTHERAPY PRACTICAL	PHY	PRESENTATION OF STUDENT	10MINS	10	10
		PATIENT CLERKING	30MINS	25	25
		ATTITUDES AND DEMONSTRATIONS IN CARRYING OUT PHYSIOTHERAPY PROCEDURES AND TECHNIQUES USING GUIDELINES. ORAL PRESENTATION, INTERACTION AND COLLABORATION WITH PATIENT	1HOUR	65	65
TOTAL MARK				100	100

Contents of the different sections of the paper:

CLINICAL PRACTICE IN

- Presentation of students (Dressing) □ Patient clerking/History taking.
- Demonstration of professionalism.
- Clinical practical of techniques in carrying out Exercise therapy.
- Demonstrate use of Electrotherapy equipments.
- clinical techniques in Orthopedics using standard guidelines
- Clinical techniques in Cardiorespiratory conditions
- Clinical techniques in Neurological conditions

PAPER: ANATOMY AND PHYSIOLOGY

Credit Value: 6

Objective/s of the paper: To assess the student's knowledge and understanding of all the systems of anatomy and physiology
Nature of the Exam: written Format of the Exam:

Exam Paper	Option	Different sections of the paper	Duration	Mark	(%)
ANATOMY AND PHYSIOLOGY	PHY	SECTION A: MCQS	45minutes	20	20
		SECTION B:STRUCTURAL QUESTIONS	30minutes	20	20
		SECTION C: SHORT ESSAY QUESTIONS	30minutes	20	20
		SECTION D: LONG ESSAY QUESTIONS	75minutes	40	40
TOTAL MARK				100	100

Contents of the Different Sections of the Paper:

□ CELL BIOLOGY AND HISTOLOGY

- The cell
- Structure
- Multiplication
- Physiology
- The tissue
- Epithelial tissue
- Connective tissue
- Nervous tissue - Concept of genetics.

□ □ Anatomy - Physiology

1. Nervous System

- Histology of the central and peripheral nervous system;
- Physiology of the central and peripheral nervous system: nervous influx, transmission of the influx (chemical mediators, synapse, driving plate), arc reflex;
- Organization of the central nervous system and functional localization: spinal cord, and medulla oblongata, brain, meninges and CSF;
- Systemic nervous, cranial nerves, plexus;
- Neuro-vegetative system: sympathetic and parasympathetic.

2. The Endocrine System

- Endocrine pancreas;

- Thyroid: anatomy - Histology - physiology;
- Parathyroid: anatomy physiology, metabolism of calcium; - Adrenals: Histology Anatomy, Physiology.
- System hypothalamic-pituitary;
- The stimulants.
- 3. Organ of meaning -
The eye: the view;
- The ear: hearing and balance;
- Smell: Taste;
- Touch.
- 4. Digestive System
- General topography;
- The peritoneum;
- Main categories of foods: Energy needs, Animal heat.
- 5. Urinary system
- Structure and Physiology of the following organs: the kidney, the ureters, the urethra and bladder;
- Excretory Role of the skin.
- 6. Musculoskeletal System
- Musculoskeletal system: the bone and its structure, different types of bone parts - cartilage - joints.
- The muscular system: histology and physiology of striated muscle and smooth muscle - Bones and muscles; - The otitis;
- The osteomyelitis
- 7. Urinary system
- Macroscopic anatomy - Renal physiology.
- The Genital system
- The genital system female: bone basin, articulation, genital organs internal, genitals external, ovaries and menstrual cycle.
- The genital system masculine: testicles (anatomy, histology, endocrine function), track excretory and glands annexes, vas deferens, seminal vesicle, ejaculatory duct, prostate, glands of cut, penis and semen.
- 8. The cardio-vascular system
 1. The heart: anatomy (configuration external and internal structure, histology of the heart muscle). Physiology (automatism, revolution, heart sounds, electrocardiogram).
 2. The vessels - Anatomy of the arteries and veins: their structure; - Anatomy of the large and the small circulation; - Circulatory physiology: blood pressure, venous circulation and capillary.
 3. The blood - Plasma and dissolved substance; - Figurative Elements; - Hematopoiesis, hemolysis, blood group; - The coagulation; - The transfusion; - The reticuloendothelial system: Spleen, lymphatic, thymus.

9. Respiratory System - Anatomy: upper airway (nasal cavity, pharynx, larynx, trachea); - Bronchi, lungs, pleura: anatomy and histology; - Physiology of the respiratory health: mechanism for regulating nervous and chemical Phenomena.

10. Digestive System

- General topography of the peritoneum; - The main categories of food; - Energy needs, animal heat; - Mouth, salivary gland, pharynx, esophagus (Anatomy and Physiology) - Anatomy physiology of the stomach, duodenum, small intestine, colon and rectum; - Liver: anatomy, liver and nutrition, liver and blood, antiseptic function; - bile, exocrine pancreas.

PAPER: PUBLIC HEALTH FOR PHYSIOTHERAPISTS

Credit Value: 06

Objective/s of the paper: To access the student's knowledge and understanding of physiotherapy sciences

Nature of the Exam: written Format
of the Exam:

Exam Paper	Option	Different sections of the paper	Duration	Mark allocated	(%)
Public Health For Physiotherapists	PHY	Section A: MCQs	60minutes	20	20
		Section B: Structural questions	30minutes	20	20
		Section C: Short essay questions	30minutes	20	20
		Section D: Long essay questions	60minutes	40	40
TOTAL MARK				100	100

☐ Methodology of physiotherapy and rehabilitation II

- The theory and practice of articular mobilizations (members and spine)
- Methodology of the CCA (muscle, articular, functional, quality of life)
- Methodology of the physiotherapy and rehabilitation (of muscle strengthening and stretching and postures)
- Mechanical adjuvants in physiotherapy.
- General principles of rehabilitation

☐ Epidemiology:

1. Importance of the epidemiology, preventive care
2. Indices of community health in relation with the epidemiology
3. Analytical methods of demography
4. Program of investigation in Health
5. Epidemiological study of acute diseases and chronic conditions
6. Methodology and Statistics in the field of research
7. Analysis of the data

☐ Hospital management:

- Health Organization in Cameroon
- Mission of Health training on the national territory: health center, district hospitals, hospitals, central and regional, general hospitals, CHU, private hospitals and clinics laity and confessional, liberal medicine.

- Hospital reform, inter relation with national organizations that contribute to the health and the fight against poverty (other government departments, donors, international organizations, NGOS, associations).
- Organization of health training, public and private
- Legislation which applies to health training
- Economic and Financial Management
- Workforce management Workforce management, staff and the continuous training
- Management of care and drugs

☐ Vaccination:

- Public Health, Individual, Community
- Education, information, teaching, learning
- Health, disease
- Quality of Life, mode of life
- Prevention, health promotion, health education
- Logic of health, model of health, behavior
- Approach by problem, by situation
- Axiological dimension, theoretical, methodological of the EPS
- 9. Health Analysis, Needs, context, of situation
- 10. Intervention, evaluation, research
- 11. Normative schedules, encouragement, by emergence, etc

☐ The economics of health:

- Basic concepts in health economics: supply, demand, the financing of the health
- Concept of the market in health: the supply of health care; request of care; financing of care
- The funding in health: social protection, pooling of Health financing
- Health Financing in Cameroon: Community funding (CNPS, mutual health and system put in place by the state for public servants); non-Community funding (budget of the ministries concerned, public health and other...); bilateral and multilateral cooperation (NGOS, other donors, ...)
- The Health Planning
- Health system and their assessment: effectiveness, efficiency, cost, effectiveness/efficiency, cost / efficiency Health Promotion ☐ ☐ General hygiene: - Bodily hygiene
- Dress hygiene
- Food hygiene
- Hygiene of the habitat.

□ □ Hospital hygiene

1. General principles -

Epidemiology

- Sources and vehicles

- Contaminant agents

- Mode of transmission.

2. Development of a hospital

- Monitoring and reporting of any infection

- Removal of Contamination - Architectural consideration

- Bacteriological control.

3. Role of the bacteriologist in the fight against the hospital infection -

Personal hygiene

- Collection

- Transport and treatment of samples

- Treatment of residue

- Washing and sterilization of equipment

- Collaboration with the other services

- General hygiene of the service of medical

□ Information, Education and Communication (IEC)

1. The concepts of the IEC

2. The methods of assessment of the nutritional status of populations

3. Food ration of the different groups of individuals

□ IEC

1. Review of problems of community

2. Prioritization of problems

3. Planning Execution unto

4. Communication technologies

5. Health Promotion