

**THE CHARTERED SOCIETY OF PHYSIOTHERAPY**

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TUESDAY, 6TH MAY, 1947  
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CONJOINT EXAMINATION  
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ANATOMY AND PHYSIOLOGY

*(Three hours allowed)*  
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Give diagrams whenever possible

Three of the following to be answered :—

1. Describe the cutaneous nerve supply of the lower limb.
2. What changes take place in the form of the vertebral column after birth? Compare the movements in the different regions, and give an account of the factors responsible for the differences mentioned.
- ✓ 3. Give an account of the relative position of those structures which can be identified by palpation in the region of the wrist.
- ✓ 4. Describe the Deltoid muscle, including an account of its actions and relations.

Two of the following to be answered :—

- ✓ 1. What is understood by the term "Vital Capacity"? What changes take place in the inspired air when it enters the lung?
- ✓ 2. What is meant by the terms "secretion" and "excretion." Give examples and mention the factors which control these activities in the organs concerned.
3. Describe the pathways taken by sensory nerve impulses from the skin of the back of the hand to the cerebral cortex.



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WEDNESDAY, 7TH MAY, 1947

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**CONJOINT EXAMINATION**

**PAPER A**

*(Three hours allowed)*

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**Five questions in all to be answered**

- ✓ 1. Describe the effects and uses of :
  - (a) Effleurage ;
  - (b) Frictions.
  
- ✓ 2. Describe the treatment by massage and movements suitable for a woman of 35 years suffering from mitral stenosis and a first attack of congestive failure in order to prepare her for return to home duties.
  
- ✓ 3. What treatment would be suitable for a boy of 10 years suffering from Bronchial Asthma ?
  
- ✓ 4. Describe the inflammatory process which had taken place in a patch of unresolved pneumonia and the healing by fibrosis.
  
5. Describe the signs and symptoms of a case of Erb's palsy. Outline a suitable plan of treatment.
  
- ✓ 6. Give a table of exercises for a group of middle-aged women suffering from chronic lumbar fibrositis. Explain the reasons for group treatment and choice of exercises.



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WEDNESDAY, 7TH MAY, 1947

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**CONJOINT EXAMINATION**

**PAPER B**

*(Three hours allowed)*

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**Five questions in all to be answered**

- ✓ 1. Describe fully the muscle work involved in :  
Standing double arm raising sideways and upwards and lowering sideways and downwards.
2. A young man of 25 has had an Amputation through upper right thigh. Write a clear account of the treatment from 10 days after operation up to the time of discharge from hospital.
- ✓ 3. How can slings, pulleys and weights be used in the treatment of
  - (a) Meniscectomy (Removal of semi-lunar cartilage knee) ;
  - (b) Osteo-arthritis of the hip joint ;
  - (c) Paræsis of Deltoid ?
- ✓ 4. On what points would it be decided that a child was suffering from Postural valgus feet ? Explain the principles of treatment.
- ✓ 5. Give the signs and symptoms and aims of treatment for a left Congenital Torticollis.
- ✓ 6. What exercises would be employed in the treatment of a fractured second lumbar vertebra from the date of injury to the time of discharge ?



**THE CHARTERED SOCIETY OF PHYSIOTHERAPY**

WEDNESDAY, 5TH NOVEMBER, 1947

**ELECTROTHERAPY EXAMINATION**

**PART I**

*(Three hours allowed)*

**Five questions in all to be answered**

**One of the following:**

1. Explain the disabilities present in a case of wrist drop. Describe *briefly* the method of investigation used to determine the presence of a nerve lesion.
2. State the structures involved in a sprained ankle, illustrating your answer by means of diagrams.  
*Outline* the treatment you would give for this condition in the early stages.

**Four of the following:**

3. By what means may a constant current be made available from an A.C. mains supply? Describe one of these in detail.
4. (a) What are the physiological effects of the sinusoidal current?  
(b) Give three conditions for which sinusoidal current is considered beneficial.
5. How would you treat a case of neuralgic headache? What special precautions are necessary when applying treatment to the head?
6. Describe, with the aid of a diagram, a modern faradic coil.
7. State Ohm's Law and discuss its application to treatment.

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THE CHARTERED SOCIETY OF PHYSIOTHERAPY

WEDNESDAY, 5TH NOVEMBER, 1947

ELECTROTHERAPY EXAMINATION

PART II

(Three hours allowed)

Five questions to be answered. Two at least in each section

High Frequency

1. Name the various methods of giving general treatment with Long Wave Diathermy. Describe one in detail.
2. What are the functions of the following :
  - (a) Oscillator in a Long Wave Diathermy Machine ?
  - (b) Variable condenser in a Short Wave Diathermy Machine ?
  - (c) Spark gap in a Long Wave Diathermy Machine ?
3. Describe in detail the treatment of an axillary abscess with Short Wave Diathermy. What precautions should be taken?
4. Give an account of the construction and working of a thermo-couple ammeter.

Irradiation

5. Describe fully the effects of infra-red irradiation on the human body.
6. What are the risks and dangers involved in treating a group of children of school age with ultra-violet light ?
7. Give the technique of treatment of a trophic ulcer with the Kromayer Lamp throughout its various stages.
8. Describe, with the aid of a diagram, the Electro-magnetic spectrum ; state the wave-lengths of the radiations used therapeutically (within the scope of the curriculum).