

*B. Electrical—Second Professional Examination :—*

1. Engineering Mathematics III. (One paper.)
2. Heat Engines (one paper) or Theory of Structures I (one paper).
3. Electrical Engineering I. (One paper.)
4. Strength of Materials in Construction. (One paper.)
5. Engineering Drawing and Design I. (Two papers.)

*Course Subjects.*—Engineering Mathematics III; Heat Engines, with Problems and Laboratory, or Theory of Structures I, with Problems; Electrical Engineering I, with Laboratory; Applied Electronics I, with Laboratory; Strength of Materials, with Problems and Laboratory; Properties of Materials; Engineering Drawing.

*B. Electrical—Third Professional Examination :—*

1. Hydraulics and Pneumatics. (One paper.)
2. Theory of Workshop Practice. (One paper.)
3. Engineering Drawing and Design II (Elect.). (Fifteen days' paper.)
4. Electrical Engineering II. (Two papers.)

*Course Subjects.*—Hydraulics, with Problems and Laboratory; Theory of Workshop Practice; Electrical Drawing and Design; Electrical Engineering II, with Problems and Laboratory; Applied Electronics II, with Laboratory.

*C. Civil—Second Professional Examination :—*

1. Engineering Mathematics III. (One paper.)
2. Surveying II. (One paper.)
3. Applied Electricity. (One paper.)
4. Strength of Materials in Construction. (One paper.)
5. Theory of Structures I. (One paper.)
6. Engineering Drawing and Design I. (Two papers.)

*Course Subjects.*—Engineering Mathematics III, Surveying II, with Problems, Field Work, and Camp; Applied Electricity Problems and Laboratory; Strength of Materials, with Problems and Laboratory; Properties of Materials; Theory of Structures I, with Problems; Engineering Drawing.

*C. Civil—Third Professional Examination :—*

1. Hydraulics and Pneumatics. (One paper.)
2. Engineering Drawing and Design II (Civil). (Fifteen days' paper.)
3. Principles of Civil Engineering. (Two papers.)
4. Surveying III. (One paper.)
5. Physical Geology. (One paper.)
6. Theory of Structures II. (One paper.)

*Course Subjects.*—Hydraulics, with Problems and Laboratory; Civil Drawing and Design; Principles of Civil Engineering; Surveying III, with Problems, and Project; Theory of Structures II, with Problems; Physical Geology.

*D. Chemical—Second Professional Examination :—*

1. Engineering Mathematics III. (One paper.)
2. Applied Electricity. (One paper.)
3. Strength of Materials in Construction. (One paper.)
4. Engineering Drawing and Design I. (Two papers.)
5. Theory of Workshop Practice. (One paper.)
6. Chemistry II, as for B.A. (Two papers.)

*Course Subjects.*—Engineering Mathematics III; Applied Electricity, with Problems and Laboratory; Strength of Materials, with Problems and Laboratory; Properties of Materials; Engineering Drawing; Theory of Workshop Practice; Chemistry II with Laboratory.

*D. Chemical—Third Professional Year :—*

1. Heat Engines. (One paper.)
2. Chemistry III as for B.A. (Three papers.)
3. Applied Chemistry as for B.Sc. (Two papers.)
4. Elementary Economic Geology. (One paper.)

*Course Subjects.*—Heat Engines, with Problems and Laboratory; Chemistry III, with Problems and Laboratory; Applied Chemistry, with Laboratory; Economic Geology.

*D. Chemical—Fourth Professional Examination :—*

1. Advanced Applied Chemistry. (Two papers.)
2. Hydraulics and Pneumatics. (One paper.)
3. Engineering Drawing and Design II (Mech.). (Fifteen days' paper.)
4. Industrial Microbiology. (One paper.)

*Course Subjects.*—Advanced Applied Chemistry, with Laboratory; Hydraulics, with Problems and Laboratory; Mechanical Drawing and Design; Industrial Microbiology; Theory of Structures (one term).