

- (6) Ignition and valve timing.
- (7) Testing and tuning up.
- (8) Troubles and remedies.

#### PAINING AND DECORATING.

NOTE.—The following classes of candidates will be exempted from the preliminary examination in drawing and mensuration:—

- (1) Those who have passed the examination for a Senior Free Place passing in the subjects trade drawing and freehand drawing and design.
- (2) Those who have obtained a Senior Free Place by recommendation, having reached the pass standard in arithmetic or mathematics or alternative mathematics and in trade drawing and freehand drawing and design.

#### SYLLABUS OF COURSES.

##### PRELIMINARY EXAMINATION.

The Preliminary Examination in Grade I will consist of a written paper only, which will include elementary questions founded on such subjects as the following:—

- 1. Drawing: Freehand drawing from copies, also from objects and memory; the elements of plane and solid geometry; the use and construction of plain scales.
- 2. Mensuration: The measurement of simple areas as required by painters and paperhangers. Weights and measures used for painters' materials.
- 3. General Principles: (a) The importance of personal cleanliness to preserve health, and of shop cleanliness to avoid waste. (b) Terms used in painting; object in painting surfaces; the principles underlying the use of paints.
- 4. Colouring: Visual colour values—*e.g.*, hue, tone, purity, &c. Mixing and matching; simple facts relating to colours in practice such as the deceptive effects of juxtaposition.
- 5. Brushes, tools, plant, and appliances: The names, description, and uses of brushes and other tools; their care and preservation.
- 6. Materials: The principal pigments, thinners, and driers used in painting; their names, uses, and distinctive qualities; varnishes, their classification and uses.
- 7. Grounds for Painting: The necessity of varying the ingredients of the priming coat according to the material to which it is to be applied; paint removal, knotting, priming, stopping, filling up, and surfacing.
- 8. Painting: The simple mixing and application of paints.
- 9. Distemper: The preparation of grounds; ingredients, composition, and application of distemper.
- 10. Wall-hangings: The stripping and preparation of walls for wall hangings; the preparation of pastes. Area covered by a piece of English, French, and American wall-paper respectively.
- 11. Imitative Painting: The preparation of grounds for different woods and the colours used.
- 12. Lettering: Simple Roman and block capitals, and lower case, together with numerals.
- 13. Decorative Processes: Elements of stencils and stencilling.

##### INTERMEDIATE EXAMINATION.

The Intermediate Examination in Grade II will consist of a written examination, a practical test, and specimen work.

(1) WRITTEN EXAMINATION.—The written examination may, in addition to more difficult questions on the subjects of the syllabus for the preliminary grade, include questions on such subjects as the following:—

- 1. Drawing: Designing simple patterns suitable for colouring and for use in definite positions. Freehand sketches illustrating the principal parts of buildings and fittings, such as mouldings, cornices, friezes, architraves; the elements of perspective.
- 2. Architectural: The architectural significance of plinths, cornices, friezes, architraves, corbels, string courses, surbase moulds, and similar features as to their colour and treatment.
- 3. Mensuration: Methods of measuring painters' work, also wall-paper and other hangings.
- 4. General Principles: The preservative, hygienic and decorative aspects of painters' work; economy and cleanliness in working; defects, their cause and cure.