

MAHARASHTRA STATE BOARD OF SKILL DEVELOPMENT EXAMINATION, MUMBAI

Examination--July, 2020

CERTIFICATE COURSE IN DENTAL ASSISTANT

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(BEÚHÉ MÍŔĚ—100)

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**INTRODUCTION TO DENTAL AND BASIC DENTAL
LABORATORY (THEORY-I)**

Marks

1. (a) Fill in the blanks (any *five*) :— 5
- (i) is called the attraction between two similar indecules.
- (ii) is the unit of current.
- (iii) Watts is the unit of
- (iv) Metals ability to form long wires is called
- (v) Tooth is divided into two parts and
- (vi) is the outer covering of tooth.
- (b) State *true* or *false* (any *five*) :— 5
- (i) Dental assistant should go in lab without any protective measure.
- (ii) Dental assistant should cut his hairs and nails regularly.
- (iii) Oral cavity is lined with mucous membrane.
- (iv) Dental assistant makes denture.
- (v) Rusting is an oxidation process.
- (vi) We do temperature measurements with thermometer.
- (c) Answer in one sentence (any *five*) :— 5
- (i) Wax (ii) Metal (iii) Diffusion
- (iv) Osmosis (v) Temperature (vi) Torsion.
- (d) Match the following pairs (any *five*) :— 5
- | ‘A’ Group | ‘B’ Group |
|------------------|---|
| (i) Alcohol | (a) C–O–C group |
| (ii) Ether | (b) R–CHO group |
| (iii) Aldethyde | (c) $R_1-\overset{\overset{O}{\parallel}}{C}-R_2$ group |
| (iv) Ketones | (d) Hydronxl group (OH) |
| (v) Carbohydrate | (e) Consist of NH ₂ group |
| (vi) Amine | (f) Sugars and starches. |
2. Describe in brief (any *two*) :— 16
- (a) Role and responsibilities of dental technician.
- (b) Safety precautions to be observed during handling of chemical, lab apparatus machineries.
- (c) Knowledge about motors, their types and uses.
- (d) Temperature measurement, Temperature measuring instruments and thermostats.

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3. Attempt any *two* of the following :— 16
- (a) Principles of Wax patterns making—Pontic design.
 - (b) Fatty acids and their more important derivatives, fats and proteins.
 - (c) Electrical safety, low voltage systems and necessity of earthings.
 - (d) Knowledge of atmosphere—physical and chemical changes of elements, mixtures and compounds.
4. Attempt any *two* of the following :— 16
- (a) Describe Boyle's Law and Charle's Law in brief.
 - (b) Describe current Ohms Law Krichhop's Law, AC, DC electrical measurements.
 - (c) Gas pressure and hydraulic pressure. Explain properties of vapours.
 - (d) Explain specific heat, latent heat, melting point, expansion of solids, liquid and gases by heat.
5. Write short notes (any *four*) :— 16
- (a) Density
 - (b) Specific gravity
 - (c) Cohesion
 - (d) Viscosity
 - (e) Elasticity
 - (f) Properties of matter.
6. Describe in brief (any *two*) :— 16
- (a) Study of work, power and energy power, friction, mometum and centre of gravity.
 - (b) Study of electrical features, heaters, temperature contilever and electroplating.
 - (c) General characteristics of common metal used in dental work and their compounds.
 - (d) Explain types of lever, stress, strain and shearing strain.
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