

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Describe the all types of fuels with examples.
- Q.24 Describe the any one method of measurement of viscosity of liquid fuel used in ceramic plant.
- Q.25 Explain the manufacturing process of natural gas and list its properties and uses.

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Roll No. ....

**3rd Sem / Ceramic**

**Subject :Fuels and Furnaces**

Time : 3 Hrs.

M.M. : 60

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Example of liquid fuel is\_\_\_\_\_.
- a) Petrol                      b) gas
- c) coke                        d) coal
- Q.2 The natural solid fuel is
- a) coal                        b) charcoal
- c) coke                        d) Ipg
- Q.3 A chemical process in which a substance react with oxygen to give off heat is called
- a) Reduction                b) evaporation
- c) combustion               d) none of these

- Q.4 \_\_\_\_\_ is not a electric furnace.
- a) Arc                                      b) Induction
- c) Pot                                        d) Resistance
- Q.5 Which of the following is a type of continuous kiln?
- a) tunnel                                      b) up draught
- c) down draught                      d) shuttle
- Q.6 The heating capacity of muffle furnace depends on the
- a) Surface area & emissivity of the stock
- b) Properties of the muffle wall (temperature, area, and emissivity)
- c) Both (a) & (b)
- d) Neither (a) nor (b)

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Blast furnace is used to produce iron metal. (True/False)
- Q.8 Crown is a part of kiln/furnace. (True/False)

- Q.9 LPG stands for \_\_\_\_\_.
- Q.10 Tunnel kiln is a continuous type of kiln. (True/False)
- Q.11 Thermocouple is used to measure temperature. (True/False)
- Q.12 The fuel as gas used for making food in our kitchen is called as \_\_\_\_\_

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Classify furnaces.
- Q.14 Explain gaseous fuels with examples.
- Q.15 Discuss ignition temperature.
- Q.16 Discuss blast furnace.
- Q.17 Discuss properties of coal.
- Q.18 Explain electric furnace.
- Q.19 Explain water gas.
- Q.20 Discuss downdraft kiln.
- Q.21 List the classification burners.
- Q.22 Explain infrared pyrometer.