

- a) Damper
- b) Speed of ID fan
- c) Fuel pressure
- d) Air pressure

Q.6 Which of this is non combustible?

- a) Peat
- b) Coke
- c) Coal
- d) Stone

Q.7 Which is famous as black gold?

- a) Coal
- b) Wood
- c) Nitrogen
- d) Sulphur

Q.8 A bomb calorimeter is used for finding the _____ of solid and liquid fuels.

- a) Dew point
- b) Calorific value
- c) Melting point
- d) Strength

Q.9 Air contains _____ % of nitrogen by volume

- a) 21%
- b) 78%
- c) 23%
- d) 15%

Q.10 Which of this is indirectly heated furnace?

- a) Open hearth furnace
- b) Tank furnace
- c) Soaking pit
- d) Muffle furnace

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

Q.11 Combustion reaction of fuels is a _____ reaction.
(exothermic/endothermic)

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Q.12 Moisture is determined by heating coal sample at 105° - 110° C. (True/False)

Q.13 Water gas is a source of _____ gas. (hydrogen/fuel)

Q.14 Coke is a solid fuel _____. (True/False)

Q.15 Blast furnace is used to produce gold metal. (True/False)

Q.16 Thermocouple is used to measure temperature. (True/False)

Q.17 Rotary kiln is used in cement industry. (True/False)

Q.18 Viscosity of oil is determined by Redwood viscometer. (True/False)

Q.19 Which of these is a fuel that can be obtained from crude oil? (Diesel/Wood)

Q.20 Shuttle kiln is a batch type of kiln. (True/False)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

Q.21 Explain combustion.

Q.22 What is the difference between natural and manufactured fuels?

Q.23 Write properties and uses of LPG gas.

Q.24 Explain working of redwood viscometer.

Q.25 Discuss pulverised coal.

(3)

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