

Combustion and Flame

Q1: What is the difference between burning of a candle and burning of a fuel like coal

Answer: Candle burns with a flame but coal does not burns with a flame

Q2: What is combustion?

Answer: The chemical process in which a substance reacts with oxygen is combustion

Q3: Food is a fuel for the body. What does this mean?

Answer: inside our body food is broken down into simpler form to release of heat and energy

Q4: Which of the following materials combustible?

Wood, paper, kerosene oil, iron nails, brick, stone, charcoal.

Answer: Wood, paper, kerosene oil, charcoal

Q5: When the clothes of a person catch fire, why that person is covered with a blanket to extinguish fire?

Answer: To cut off the air supply of the fire, so that the fire gets off.

Q6: What do you mean by forest fire?

Answer: A forest fire is a natural disaster consisting of a fire which destroys a forested area.

Q7: What is ignition temperature?

Answer: The lowest temperature at which a substance catches fire

Q8: Why a matchstick does not catch fire on its own at room temperature?

Answer: Match Stick cannot catch fire on its own because it can catch fire only at its ignition temperature not at room temperature.

Q9: Give example of the fuel used in our day to day life.

Answer: Cow dung, coal, wood, petrol, charcoal, compressed natural gas (CNG)

Q10: The fuel can be solid, liquid or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: gas

Q11: Which of the following is not a combustible substance?

1) Wood

2) Petrol

3) Nail

4) All of them

Answer: Nail

Q12: light is also given out during \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: Combustion

Q13: Is Air required for combustion or not?

Answer: yes

Q14: Which out of the following fuels are used for running automobiles?

1) Wood

2) Coal

3) Diesel

4) Charcoal

Answer: diesel

Q15: Combustion is a reaction in which a Substance reacts with

1) Hydrogen

2) Nitrogen

3) Oxygen

4) Chlorine

Answer: Oxygen

Q16: define ignition temperature?

Answer: the lowest temperature at which a combustible substance when heated (as in a bath of molten metal) takes fire in air and continues to burn

Q17: Different types of substances catch fire at different \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer: Temperature

Q18: Can matchstick catch fire on its own at room temperature?

Answer: No

Q19: by which substance the rubbing surface of matchsticks are made of?

Answer: Powdered glass and a little red phosphorous

Q20: A combustible substance cannot catch fire as long as its temperature is lower than its \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Answer: Ignition temperature

Q21: Name some of inflammable substances.

Answer: Alcohol, petrol, LPG etc.

Q22: the three essential requirements for producing fire are\_\_\_\_\_\_\_\_\_\_\_\_\_.

Answer: Fuel, air and heat

Q23: fire extinguisher is used to cut of the supply of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Answer: Oxygen

Q24: Out of these which are inflammable Substances?

1) Petrol

2) Wood

3) Paper

4) Straw

Answer: Petrol

Q25: explosion is example of\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ combustion.

Answer: Explosion

Q26: Which is the hottest part of a flame?

Answer: Outer zone of complete combustion

Q27: Good fuel is the one which is

1) Cheap

2) Readily available

3) Produces large amount of heat

4) All of these

Answer: All of these

Q28: Give examples of gaseous fuel.

Answer: LPG

Q29: Which of these fuels will produce large amount of heat?

1) LPG,

2) coal

3) wood

Answer: LPG

Q30: The unit of calorific value is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Answer: Kilojoules per Kg

Q31: Incomplete combustion of fuels releases \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gas.

Answer: Carbon mono oxide

Q32: Fire produced by oil cannot be controlled by\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Answer: Water

Q33: When a cracker is lighted a sudden reaction takes place with the evolution of heat, light and sound, this is an example of what type of combustion?

Answer: Explosion

Q34: Fuel must be heated to its\_\_\_\_\_\_\_\_\_ before it starts burning.

Answer: Ignition temperature

Q35: Which liquid fuel is used in our home?

Answer: LPG

Q36: which gases are involved in acid rain.

Answer: Sulphur dioxide and nitrogen dioxide

Q37: which fuel is replacing diesel and petrol in automobiles?

Answer: CNG