

## Coal and Petroleum

### Practice Exercise

1. The zone of flame which consists of hot, unburnt vapours of the combustible material is:  
(a) Wick (b) Yellow zone  
(c) Dark zone (d) Blue zone  
(e) None of these
2. Product formed after complete combustion of methane is:  
(a) Carbon dioxide (b) Carbon  
(c) Carbon monoxide (d) Charcoal  
(e) None of these
3. Highly inflammable substances:  
(a) Have high ignition temperature  
(b) Have low ignition temperature  
(c) Cannot catch fire easily  
(d) Both (b) and (c)  
(e) None of these
4. Which one among the following is not an inexhaustible natural resource  
(a) Sunlight (b) Water  
(c) Air (d) Petrol  
(e) None of these
5. Product obtained by burning coal in the presence of air is:  
(a) Coal gas (b) Coal tar  
(c) Coke (d) Carbon dioxide  
(e) None of these
6. A useful product of destructive distillation of coal which is used in making drugs and photographic materials is;  
(a) Coal gas (b) Coal tar  
(c) Coke (d) Carbon dioxide  
(e) None of these
7. Petroleum separates into different fractions on the basis of difference in their:  
(a) Melting points (b) Boiling points  
(c) Freezing points (d) Colour  
(e) None of these
8. Which one among the following is used as a fuel for jet air planes?  
(a) Petroleum gas (b) Lubricating oil  
(c) Kerosene (d) Light oil  
(e) None of these
9. The colour of flame produced by the fuel in the sufficient supply of oxygen is:  
(a) Black (b) Yellow  
(c) Green (d) Blue  
(e) None of these
10. Unit of calorific value of a fuel is:  
(a) Joule per gram  
(b) Kilojoule per liter  
(c) Kilojoule per kilogram  
(d) Kilogram per milliliter  
(e) None of these
11. Blackening of base of utensils while cooking food is due to:  
(a) Black colour discharged from the utensils.  
(b) Black colour of the utensils.  
(c) Improper cooking.  
(d) Sacking of soot particles from incomplete combustion.  
(e) None of these
12. Cleanest fuel among the following is:  
(a) Kerosene (b) Petrol  
(c) Cow dung cakes (d) Hydrogen gas  
(e) None of these
13. Gases present in coal gas are:  
(a) Hydrogen (b) Methane  
(c) Carbon monoxide (d) All the above  
(e) None of these
14. Which petroleum product is used for road surfacing?  
(a) Coal tar (b) Paraffin wax  
(c) Bituminous (d) Diesel  
(e) None of these

- 15.** Which one of the following contains maximum percentage of carbon?  
 (a) Bituminous (b) Anthracite  
 (c) Lignite (d) Plastic  
 (e) None of these
- 16.** Ammonical liquor used for making:  
 (a) Candles  
 (b) Nitrogenous fertilizers  
 (c) Paints  
 (d) LPG  
 (e) None of these
- 17.** I \_\_\_\_\_ is used as a solvent for dry- cleaning of clothes.  
 (a) CNG (b) Petrol  
 (c) Lubricating (d) Asphalt  
 (e) None of these
- 18.** Middle zone of a candle flame is luminous due to:  
 (a) Completely burnt carbon particles.  
 (b) Unburnt carbon particles.  
 (c) Partially burnt carbon particles.  
 (d) Incandescent bulb  
 (e) None of these
- 19.** Which one among the following has the highest calorific value?  
 (a) Wood (b) Cow dung cake  
 (c) Kerosene (d) LPG  
 (e) None of these
- 20.** Combustion that occurs suddenly with the evolution of a large amount of gas is:  
 (a) Rapid combustion  
 (b) Spontaneous combustion  
 (c) Explosion  
 (d) Gas combustion  
 (e) None of these
- 21.** Which among the following is essential for the combustion to take place?  
 (a) Carbon dioxide (b) Petrol  
 (c) Oxygen (d) Candle  
 (e) None of these
- 22.** Destructive distillation of coal is done to produce:  
 (a) Coke (b) Coal tar  
 (c) Coal gas (d) All the above  
 (e) None of these
- 23.** The petroleum product which has boiling point between 150 – 250°C is:  
 (a) Light oil (b) Petroleum gas  
 (c) Kerosene (d) Gasoline  
 (e) None of these
- 24.** \_\_\_\_\_ is referred as black gold.  
 (a) Crude oil (b) Coke oil  
 (c) Coal tar (d) Coal gas  
 (e) None of these
- 25.** Which one among the following can be used as an alternative source of energy in place of fossil fuels?  
 (a) Solar energy (b) Wind  
 (c) Biomass (d) All the above  
 (e) None of these
- 26.** What is produced when magnesium ribbon burns?  
 (a) Magnesium hydroxide  
 (b) Magnesium oxide  
 (c) Light  
 (d) Both (b) and (c)  
 (e) None of these
- 27.** Which one of the following is the best way to extinguish the fire caught by clothes of a person?  
 (a) Throwing stones on the clothes.  
 (b) Covering the person with a woolen blanket.  
 (c) Throwing petrol on the clothes.  
 (d) Covering the person with a polythene sheet.  
 (e) None of these
- 28.** Which one of the following is not a characteristic of a good fuel?  
 (a) Safe to store.  
 (b) Low ignition temperature.  
 (c) Does not cause pollution.  
 (d) All the above  
 (e) None of these
- 29.** \_\_\_\_\_ is used for making candles.  
 (a) Asphalt (b) Paraffin wax  
 (c) Diesel (d) Petrol  
 (e) None of these

- 30.** Deposits of natural gas are found in India in:  
 (a) Tripura (b) Rajasthan  
 (c) Maharashtra (d) All the above  
 (e) None of these
- 31.** LPG mainly consists of:  
 (i) Propane (ii) Methane  
 (iii) Butane (iv) Ethane  
 (a) (i) and (ii) (b) (ii) and (iii)  
 (c) (i) and (iii) (d) (i) and (iv)  
 (e) None of these
- 32.** Which one of the following statements is incorrect?  
 (a) LPG has high calorific value.  
 (b) Acetylene is a liquid fuel  
 (c) A good fuel has moderate rate of combustion.  
 (d) All of the above  
 (e) None of these
- 33.** \_\_\_\_\_ does not burn with flame.  
 (a) Camphor (b) LPG  
 (c) Candle (d) Charcoal  
 (e) None of these
- 34.** When methane burns in sufficient supply of oxygen:  
 (a) Carbon and water are produced.  
 (b) Carbon dioxide and water are produced.  
 (c) Carbon dioxide and hydrogen are produced  
 (d) Carbon monoxide and water are produced.  
 (e) None of these
- 35.** A material burns into flame without the application of heat is called:  
 (a) Rapid Combustion  
 (b) Incomplete combustion  
 (c) Spontaneous combustion  
 (d) Explosion  
 (e) None of these
- 36.** Water used on petrol fires does not work because:  
 (a) Petrol is heavier than water.  
 (b) Petrol will float on the water.  
 (c) It will supply oxygen to the burning fire.  
 (d) It can cause electric shock.  
 (e) None of these
- 37.** \_\_\_\_\_ can be caused by burning of coal.  
 (a) Cyclone (b) Acid rain  
 (c) Earthquake (d) Volcano  
 (e) None of these
- 38.** Which one of the following is not a petroleum product?  
 (a) Coal (b) Gasoline  
 (c) Diesel (d) Petroleum gas  
 (e) None of these
- 39.** PCRA refers to:  
 (a) Petrochemical Consumption Research Association  
 (b) Petroleum Conservation Resource Association  
 (c) Petroleum Conservation Research Association  
 (d) Petroleum Consumption Research Association  
 (e) None of these
- 40.** Which one of the following is used in extraction of metals?  
 (a) Coke (b) Coal gas  
 (c) Coal tar (d) Petroleum  
 (e) None of these

## Answer Key

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| <b>1.</b> C  | <b>2.</b> C  | <b>3.</b> B  | <b>4.</b> D  | <b>5.</b> D  |
| <b>6.</b> B  | <b>7.</b> B  | <b>8.</b> C  | <b>9.</b> D  | <b>10.</b> C |
| <b>11.</b> D | <b>12.</b> D | <b>13.</b> D | <b>14.</b> C | <b>15.</b> B |
| <b>16.</b> B | <b>17.</b> B | <b>18.</b> C | <b>19.</b> D | <b>20.</b> C |
| <b>21.</b> C | <b>22.</b> D | <b>23.</b> C | <b>24.</b> A | <b>25.</b> D |
| <b>26.</b> D | <b>27.</b> B | <b>28.</b> E | <b>29.</b> B | <b>30.</b> D |
| <b>31.</b> C | <b>32.</b> B | <b>33.</b> D | <b>34.</b> B | <b>35.</b> C |
| <b>36.</b> B | <b>37.</b> B | <b>38.</b> A | <b>39.</b> C | <b>40.</b> A |