DCA CLASSES

CLASS VIII – SCIENCE – CHAPTER 06 COMBUSTION AND FLAME

Name: Date: **01**. Combustion refers to a: (a). physical change (c). cyclic change (d). all the above (b). chemical change **02**. Select the combustible substance: (c). glass (a). wax (b). water (d). sand **03**. During combustion of coal, the supporter of combustion is: (a). hydrogen (d). carbon dioxide (b). nitrogen (c). oxygen 04. The process of burning is also called as: -(a). combustion (d). conduction (b). inflammation (c). induction 05. Water works as a fire extinguisher by removing: -(d). source of (a). heat (b). oxygen (c). both a & b combustible substance **06**. The non SI unit for reporting calorific value is: -(a). J/kg (b). KP/kg (c). KW/kg (d). KJ/kg **07**. The SI unit of the calorific value of a fuel is: -(a). J/kg (c). N/kg (d). KW/kg (b). KJ/kg 08. SPM released by combustion of coal in air may lead to: -(c). arthritis (d). Goitre (a). bone cancer (b). asthma 09. A fire triangle doesn't need: -(a). oxygen (c). heat (d). fuel (b). nitrogen 10. Fire can be extinguished by spraying: -(a). carbon dioxide (b). carbon tetrachloride (c). water (d). all the above **11**. Temperature is higher for a: -(a). blue flame (b). yellow flame (c). brown flame (d). both a & b 12. Water should not be used as extinguishing agent for fires caused by: -(b). electricity (c). both a & b (a). oil (d). burning of wood 13. Incompletely burnt fuel releases a very poisonous gas that can be fatal if inhaled: -(a). carbon dioxide (b). ozone (c). water gas (d). carbon monoxide 14. Fire can be extinguished by :-(a). lowering temperature below ignition temperature (b). cutting the supply of oxygen (c). removing non combustible substances from surroundings

(d). both a & b

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- **15**. To fight fire: -
 - (a). we should cut off the supply of oxygen
 - (b). we should remove combustible substance
 - (c). we should cool down combustible substance below ignition temperature
 - (d). all the above
- 16. Acid rain is caused due to dissolution of: -
 - (a). oxides of nitrogen in rain water
- (b). oxides of Sulphur in rain water

(c). both a & b

- (d). oxides of carbon in rain water
- 17. Type of combustion that leads to pollution is/are: -
 - (a). intermittent combustion

(b). complete combustion

(c). incomplete combustion

- (d). both b & c
- 18. A fire extinguisher works on following principle/s: -
 - (a). removing combustible substance
 - (b). cooling the burning substance below ignition temperature
 - (c). cutting off supply of air
 - (d). both b & c
- 19. The dark zone of a candle flame is: -
 - (a). region around the wick

(b). base close to wick

(c). middle region of flame

(d). outer region of flame

- **20**. For a goo<mark>d fuel:</mark> -
 - (a). ignition temperature should be below the room temperature
 - (b). ignition temperature should be above the room temperature
 - (c). ignition temperature should be equal to the room temperature
 - (d). ignition temperature should be less than 25° C
- Q1. Match the column: -
 - (A). (a). Incomplete combustion
 - (b). Explosion
 - (c). Calorific value
 - (d). Complete combustion
 - (e). Slow combustion

- i) Burning a firecracker
- ii) carbon to carbon monoxide
- iii) carbon to carbon dioxide
- iv) spontaneous
- v) fuel efficiency

- (B). Fuel
 - (a). Coal
 - (b). CNG
 - (c). Petrol
 - (d). Biogas
 - (e). LPG

- calorific value (kJ/kg)
- i) 35000-40000
- ii) 55000
- iii) 25000-33000
- iv) 50000
- v) 45000

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(C) .	(a). liquid fuel (b). gaseous fuel	i) natural gas ii) hydrogen
	(c). solid fuel	iii) coal gas
	(d). Good gaseous fuel	iv) LPG
	(e). Fuel of future	v) cattle dung cakes
(D).	Candle flame	property
	(a). yellowish	i) not enough oxygen is available
	(b). blue	ii) plenty of oxygen available
	(c). inner zone	iii) flame color in non-luminous zone
	(d). outer zone	iv) flame color in luminous zone
	(e). middle zone	v) dark black in colour
(E).	(a). Carbon dioxide	i) also called gobar gas
	(b <mark>). Oxyge</mark> n	ii) highest calorific value
	(c <mark>). Hydrogen</mark>	iii) gas essential for burning
	(d <mark>). Biogas</mark>	iv) non pollutant vehicular fuel
	(e). CNG	v) used in fire extinguisher
OO2. Fill in	n the blanks: -	
•		any substance catches fire is called
temperatu		, , , , , , , , , , , , , , , , , , ,
	The substances which burn in air	are called substances.
		tinguishing fire caused by an electric short-circuit.
		e is also called the zone of combustion.
		temperature will catch fire easily.
	Non combustible substances do n	
		oxygen supply, and water are formed.
		lable, methane combustion produces and
water.		
(j). E	Burning of matchstick is an examp	le of combustion.
(k). One should never use water for extinguishing fires.		
(1). (Combustion of food inside living co	ells occurs through
(m).	Nowadays in place of petrol and	diesel, a cleaner fuel is recommended.
(n).	Wax vapours burn completely in _	zone of a candle flame