CLASS VIII – SCIENCE – CHAPTER 05 COAL AND PETROLEUM

Nam	e:			Date:				
01.	solid fuel formed by heating coal in the absence of air: -							
	(a). hydrogen	(b). coke	(c). methane	(d). coal tar				
02 .	Fossil fuels does n	ot include: -						
	(a). coal	(b). petroleum	(c). biogas	(d). natural gas				
03 .	•	generation of electricity in thermal power plants we need: -						
				(d). biogas				
Q4 .	Coal is a mixture of							
		· · · · · · · · · · · · · · · · · · ·	(c). oxygen	(d). all the above				
05 .			in the absence of air: -					
			(c). natural gas					
06 .		ety of coal is the highest in percentage of carbon?						
	• •	al (b). lignite		(d). all contain equal				
07 .	Coal – Vo <mark>latile imp</mark>							
		(b). coal tar		(d). coke				
08.	The oil which is us							
	• •		(c). diesel					
09 .		resource that has become exhaustible due to faster use is: -						
	(a). air	` '		(d). groundwater				
10.	Non-renewable re							
	(a). Coal		(c). Metals					
11.			<mark>place of</mark> fossil fuels is/are					
	• •	(b). Biogas		(d). all the above				
12.	Natural gas is used							
		(b). coke		(d). coal gas				
13.	All are common va			/ IX				
	` ' '	(b). hematite	` , _	(d). anthracite				
14.	Other name used			/ -1\				
. –		(b). black gold		(d). all the above				
15.	Petroleum is gene	•	•	/ 1\				
	•	• •	(c). natural gas	(d). noble gas				
16.		•	is solvent for dry cleanir	_				
. –	(a). petrol	(b). diesel	• • •	(d). kerosene				
L/.	·		rel for stoves and lamps					
	(a). kerosene	(¤). LPG	(c). diesel	(d). both a & b				

18.	A fuel	A fuel which doesn't cause any pollution on burning is:								
	(a). coal (b). natural gas		(c). diesel			(d). petrol	(d). petrol			
19 .	Petroleum is separated into useful pi			roduct						
	(a). fractional distillation		(b). d	(b). destructive distillation						
	(c). bo	(c). both a & b		(d). fi	(d). filtration					
20.	Destru	ctive distillation w	ill not prod	uce:						
	(a). coke (b). coal tar			(c). coal gas (d). natural gas						
Q01	1. Match the following:									
	A.) Petroleum fraction Uses									
	(a). Paraffin wax			i) domestic fuel						
	(b). Diesel			ii) making candles						
	(c). Kerosene				iii) making roads					
	(d). Petroleum gas			iv) stove fuel						
	(e). Bitumen				v) automobile fuel					
	B.) Products			Uses						
	(a). Coal tar			i) non-polluting automobile fuel						
	(b). CNG			ii) an industrial fuel						
	(c). LPG (d). Coal gas (e). Coke		iii) in metal extraction process iv) fuel for home							
			v) making naphthalene balls							
	C .)	C.) Match the columns: (a). Crude oil (b). Producer gas (c). Water gas (d). Fossil fuel (e). Biogas D.) Match the column:			:\	. 60				
						+ CO				
					ii) cc					
					-	attle dung				
					-	lack gold ₂ + CO				
	D .)				V) IV)	21 00				
	(a). Coke (b). Coal tar (c). Natural gas			i) me	ethane rich	gas				
			ii) product of heating coal in absence of air iii) solid fuel							
	(d). Coal gas			iv) oil which serves as fuel						
	(e). Petroleum		v) thick black liquid							
	E.) Match the column:				•					
	,	(a). Carbonisation	า		i) ha	rd coal				
		(b). Lignite			ii) cc	onversion o	f wood to car	bon		
	(c). Anthracite (d). Peat (e). Ammoniacal liquor		iii) solution of NH3in water							
				iv) s	oft coal					
				v) inferior quality coal						

Q02. Fill in the blanks:

(a). All such substances which are used by human beings for their survival and welfare are called					
(b). Petroleum is a and resource.					
(c) resources are present in unlimited amount in nature and can be continually replenished.					
(d). A is a substance that can be used to produce heat at a reasonable cost.					
(e). A fuel is obtained from the remains of plants and animals that died millions of years ago.					
(f). Soil is an natural resource.					
(g). Fossil fuels are valuable sources of					
(h). Save electricity to save					
(i). When coal is heated in the of air, many useful products are formed.					
(j). When coal is burnt in the of oxygen, lot of smoke and harmful gases are formed.					
(k). Useful substances obtained from petroleum and natural gas are called					
(I). The constituent of petroleum added to produce Vaseline is					
(m). The wise and judicious use of the fossil fuels is called of fossil fuels.					
(n). Process of conversion of wood to carbon is called					
(o). Process of separating the fractions of petroleum by fractional distillation is called _ of petroleum.					

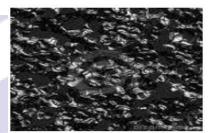
Q03. State whether the following statements are true or false:

- (a). The percentage of carbon is more in coke than in coal.
- (b). Petroleum is soluble in water.
- (c). Petroleum is an exhaustible or non-renewable energy source.
- (d). Ammoniacal liquor is formed by solution of ammonia in oil.
- (e). Natural gas is a domestic and industrial fuel with high calorific value.
- (f). Oxygen is a non-renewable resource.
- (g). Natural gas is found along with petroleum in reservoirs under the ground.
- (h). Natural gas is chiefly made up of methane.
- (i). CNG is used as a domestic fuel.
- (j). Biogas is very costly and inconvenient fuel for rural areas.
- Q04. Define carbonization?
- Q05. How burning of coal can create serious global problems?
- **Q06**. What can be potential effect of petroleum products on environment?
- **Q07**. Where and how is petroleum separated into usable products?
- **Q08**. Which one is a better fuel coal or coke? Give reason.
- Q09. Describe the process through which petroleum is formed?
- **Q10**. What are petrochemicals? Explain.
- Q11. What is meant by destructive distillation of coal?
- Q12. Why do we need to conserve resources?
- Q13. What is anaerobic thermal degradation of wood? What is its importance?

- Q14. Classify the following resources as
 - (a). natural or man-made: petroleum, bleach, coal, steel, wind, alloys, water.
 - (b). living and non-living natural resources: plants, water, animals, microbes, soil, minerals.
 - (c). exhaustible and inexhaustible natural resources: wind, petroleum, coal, natural gas, sunlight, forests, water, minerals.
- Q15. Pick the odd word out of the following: LPG/CNG/Diesel/Petrol/Kerosene/Paraffin/Lubricating oil
- Q16. Put the following statements in correct sequence: In a petroleum refinery -
 - (a). vapour rises and hydrocarbons with lower boiling points condense at different heights.
 - (b). hydrocarbons get separated in the fractionizing tower to form the different fractions.
 - (c). Crude oil is heated to 400°C in furnace.
 - (d). hydrocarbons with highest boiling points condense first.
 - (e). they get collected near base of furnace.
- Q17. Name the black liquid shown in the following picture?



Q20. Name this destructive distillation product of coal you are viewing in the picture?



Q21. Name the variety of coal shown in the picture at right?



Q22. Name the variety of coal shown in the picture below?





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