2023

Time - 3 hours

Full Marks - 60

Answer **all groups** as per instructions. Figures in the right hand margin indicate marks.

GROUP - A

1.	Fill	in the blanks. (<u>all</u>)	[1 × 8
	(a)	Fusain is also called	
	(b)	The dull earth looking bands of coal are called	·
	(c)	The calorific value of lignite is	
	(d)	The calorific value of bituminous coal is	
	(e)	The tipam sandstone is of age.	
	(f)	coal is derived from subaquatic plants rich llen, spores and cuticles.	n in po-
	(g)	coal is derived from algae.	
	(h)	coal is used for production of coke and g	as.

GROUP - B

2.		te notes on any eight of the following within two to three sences each. [1 $\frac{1}{2} \times 8$]					
	(a)	Sapropelic coal					
	(b)	Coal					
	(c)	Petroleum					
	(d)	Peat					
	(e)	Ash content					
	(f)	Fuel ratio					
	(g)	Carbonization					
	(h)	Rudrasagar oil field					
	(i)	Reservoir rocks					
	(j)	Brown coal					
GROUP - C							
3.	Wri	te notes on any eight of the following within 75 words each.					
	(a)	[2 × 8 Ranks of coal					
	(b)	Cannel coal					

		(c)	Banded constituents of coal	
		(d)	Oil traps	
		(e)	Oil fields of Assam	
		(f)	Volatile matter	
		(g)	Evidences of drift theory	
		(h)	Migration of petroleum	
		(i)	Stratigraphic traps	
		(j)	Oil fields of Gujarat	
		į.	GROUP - D	
			Answer all questions within 500 words each.	
4. Describe the origin of coal.			scribe the origin of coal.	[6
			OR	
		Des	scribe Indian standard coal classification.	
	5.	Des	scribe underground coal gasification.	[6
			OR	
		Des	scribe coal liquefaction.	
	6.	Des	scribe the origin of petroleum.	[6

OR

Describe the physical properties of coal.

7. Describe oil traps.

[6

OR

Describe plate tectonics and global distribution of hydrocarbon reserves.