10

10

10

Petrolèum Refining Technology QP Code:

(3 Hours)

[ Total Marks: 80

N.B.	. (1)	Question No 1 is commulatory	
N.D.		[2]	
	(2)		
	(3)		
2	(4)	Neat diagrams must be drawn wherever necessary.	
			2
1. E	xplain	and discuss the importance of following:	2
	(a)	Oxidation stability	
	(b)	Cloude point and smoke point	
	(c)	ASTM distillation and TBP distillation	
	(d)	UOP characterization factor and correlation index	
2. (a	) Nan	ne the major oil fields in India. Explain the types of Indian crude oil on the basis	1
	The second second	's composition, sulfur content and API gravity.	-
(H		at is the importance of evaluation of crude oil and name the list of different	1
,-		lucts, with their boiling range, obtained from an oil refinery.	-
100	p.o.	and the soling range, contained from the first f	
3 (0	Fin	lain different tower arrangement used for crude distillation unit, with a suitable	1
٥. رد	The state of the s	ram.	
. /	Victor Barrier St.	at are the different additives used in gasoline, mentioning their specific use.	
(1	) 1111	at are the different additives used in gascime, mentioning their specific use.	1
4. (8		ne the sulfur compound present in cmde oil. Explain any one method to remove	1
	ALC: TANKE	ur with a suitable diagram.	-
. (1	200 NO. 11	at is meant by overhead corrosion in crude distillation tower unit. Explain briefly	1
	wha	it measures can be taken to prevent the same.	
5. (2	a) Wh	at is the importance of cracking process in refinery? Describe the process of	1

(b) Explain catalytic reforming process stating, reacations, operating condition and

(b) Differentiae between bio-refinery and petroleum refinery. Write short notes on

Etharol as a bio-fuel.

hydrocracking in detail with suitable diagram.

6. (a) Differentiate between HF acid and sulfuric acid alkylation process.

catalyst used, with suitable diagram.