17203

	611' Ho		50	Marks	Seat No.	
	Instructions – (1)			All Questions are Compulsory.		
			(2)	Illustrate you necessary.	r answers with neat sketches wherever	
			(3)	Figures to th	e right indicate full marks.	
			(4)	Assume suita	able data, if necessary.	
			(5)		e, Pager and any other Electronic on devices are not permissible in Hall.	
					Marks	
1.		Attempt	any	<u>NINE</u> of the	e following: 18	
	,		neat t	treatment. State its two proposes. us products of blast furnance.		
			arious			
c) Give compos			mposi	ition of pig iron.		
	d) Give compos		mposi	tion of HSS.		
	e)	Name va non prot			Classify them in to protective and	
	f)	Why tin	ned	container are	used for storing food stuff?	
	g)	How gal	lvanis	ing is differen	nt from shearardizing?	
	h)	Give for	ır cha	aracters of go	od paint.	
	i)	Give con	mposi	tion of LPG.		

- j) Define flash point and fire point.
- k) List four expectation from good lubricant.
- 1) How CNG is more economical than other fuel?

2. Attempt any <u>FOUR</u> of the following:

- a) List various zones of blast furnace. Give reactions involved in zone of reduction with temperature.
- b) Give difference between annealing and normalising.
- c) Describe open hearth process for steel.
- d) Differentiate between solid, liquid and gaseous fuel.
- e) Explain proximate analysis in coal sample for determining moisture and volatile matter.
- f) Give composition, properties and application of Bio-gas.

3. Attempt any FOUR of the following:

- a) Explain mechanism of corrosion due to evolution of Hz gas? (with labelled diagram)
- b) Describe the process of metal spraying with its advantages and disadvantages.
- c) How will you protect following from corrosion?
 - (i) Underground pipe line
 - (ii) Iron machineries
- d) Explain fluid film lubrication with diagram.
- e) Give classification of lubricant. Give one example for each.
- f) Give selection criteria for lubricant used in I.C. engine and steam engine, sewing machine.

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