

2 Hour	s/50 Marks						Sea	at N	Vo.									
	Instructions :	(1)	All	ques	stior	ns a	re c	com	pul	lso	ry.							
		• •		strate cessa	-		ans	swei	rs v	vith	n	eat	ske	tche	s W	here	ever	•
		(3)	Figu	ures	to t	the	righ	ht in	ndica	ate	ful	l m	arks	S.				
		(4) Assume suitable data, if necessary .																
																	M	ARKS
1. Att	tempt any nine o	f the	foll	owin	ng :													18
a)	Name four ores	of irc	on.															
b)	Give compositio	n an	ld pr	rope	rties	s of	wro	bugł	nt iro	on.								
c)	State any two ap	oplica	atio	ns of	f he	eat r	esis	sting	g ste	eel	Nic	hro	me.					
d)	What is the effect	ct of	Cr a	and (Co	on p	orop	perti	ies (of s	tee	el ?						
e)	What is corrosio	on ? (Give	e its	typ	es.												
f)	State and explai	n fac	ctors	s affe	ecti	ing c	on a	tmc	ospł	neri	ic c	orro	osio	n.				
g)	How the protecti	ion o	of me	etal	don	ie by	y the	e m	odif	ica	tior	n of	env	ironi	men	t?		
h)	Why the galvani	zed	con	Itaine	ers	are	not	use	ed fo	or s	tor	ing	food	d stu	ff ?			
i)	Write any four cl	hara	cter	ristic	s of	f go	od/i	dea	al fu	el.								
j)	What are signific	canc	e of	f pro:	xim	nate	ana	alys	is ?									
k)	Write composition	on, p	orope	ertie	es of	f Bic	ogas	s.										
I)	Define lubricant.	. Nar	mea	any t	two	exa	amp	les	of li	qui	d lu	ıbrio	cant	S.				
2. Att	tempt any four of	f the	follo	owin	וg :													16
a)	Write the chemic	cal re	eact	tions	s tak	king	pla	ice i	in zo	one	of	hea	at ab	sor	otion	1.		
b)	Write composition high speed steel		rope	ertie	s ar	nd a	ppli	icati	ions	s of	18-	-8 s	tain	ess	stee	I, 18	-4-1	
c)	Distinguish betw	veen	cas	st iro	n, p	oig iı	ron	and	l ste	el.								
d)	Define fuels. Give	ve its	s de	tail c	clas	sific	catio	on.										
e)	State and explain and uses of petro						on c	of cr	ude	e pe	etro	leur	n. V	Vrite	con	ipos	ition	
f)	What is LPG?	Give	its c	comp	posi	ition	ı, pr	ope	ertie	s a	nd	use	s.					
																		στο

Marks

- 3. Attempt **any four** of the following :
 - a) Write the factors affecting the immersed corrosion.
 - b) Describe the mech. of immersed corrosion by absorption of oxygen gas.
 - c) Differentiate between Galvanising and Sherardizing. Write the similarity between galvanising and sherardizing.
 - d) Define the following properties of lubricant
 - i) Viscosity
 - ii) Oiliness
 - iii) Flash point
 - iv) Pour point.
 - e) Define lubrication. Explain the boundary lubrication.
 - f) Write four functions of lubricant used in gears.

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