

2023/TDC(CBCS)/EVEN/SEM/ CHMDSE-601T/341

a. What are or are londicers?

TDC (CBCS) Even Semester Exam., 2023

Scorption is a community figurifical for anything

CHEMISTRY

(6th Semester)

Course No.: CHMDSE-601T

(Inorganic Materials of Industrial Importance)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A

Answer any *fifteen* as directed: 1×

1×15=15

- 1. Write the formula of *ortho*-silicate anion with its structure.
- 2. What do you mean by safety glasses?
- 3. What do you mean by advanced ceramics?

 Give one example.
- 4. Mention one use of fullerenes.

J23/820

(Turn Over)



(MARANGE (FOR) (26) (660)

1718	Tim-well HJ		
	What are binders?	15. Mention one advantage of fuel cell.	in M
	SOLD AND MARKET AND TO THE PERSON OF THE PER		197
6.	What are organic fertilizers?	16. Capacity of a battery is expressed in	
	TOTAL CONTROL OF THE PROPERTY	Fill in the blar	
	Write the uses of ammonium nitrate as a	17. What is cast iron?	
	fertilizer.	Prosent or and enter the set of the	197 - 33
		18. Bronze is an alloy of and	1961
8.	What are fillers?	(Fill in the blank	
9.	What do you mean by pigments? Give	19. What is carburizing of steel?	W dit
	examples.	22. What is surely or	
	14 July July 24 1	A company of the second state of the last	W S.
	And the land of th	20. The purest form of iron is	- T_ \
10.	An example of straight fertilizer is	(Fill in the blar	ik j
	(Fill in the blank)		1.0
		are spend formered light and an althought of the	A17
	What are drying agents?	SECTION—B	
T,	what are drying agents.	Answer any five questions:	2×5=10
12.	Write one example of ecofriendly paint.	21. How are cements classified? Explain v	vith
		example.	1014
13.	What is primary battery?	and the last thousand the section for the	i Ex
Ę,	are the first of the second of	22. Explain setting of cement.	the Mary
14.	What do you mean by non-rechargeable	23. Write the important properties of ideal pai	nt
9	batteries?	20. Write the important properties of ideal par	IIC.
J23/	(Continued)	J23/ 820 (Turn	n Over



(4)

24.	What are the role of macro- and micro- nutrients in fertilizer?	,a1 15,	32.		Mention the use of CNT in medicine.	2
			- 1	(b)	Write short notes on:	3
25.	Why are thinners used in paints? Give one example of commonly used thinner.	, t & 8	A TOTAL	1	(ii) Clay	
	The second of th	Landa Contract			What will be a second to the s	ed i
26.	What are the basic constituents of paints?	-V.E	33.	(a)	What do you mean by straight, complex and mixed fertilizers?	3
27.	Mention battery components and their role.	.01		(b)	What do you mean by 10-34-0 in a	
		Acres 1			fertilizer packet?	1
20	What are the advantages of Li-ion batteries?			I xLTV		
20.	what are the advantage of Er-ion batteries?	- MI	A.	(c)	What is amide fertilizer? Give example.	1
29.	What are the specific properties of elements in alloys?	.08	34.	(a)	Write a note on KCl as fertilizer.	2
	t where on all the last		1.	(b)	Write the use of amide fertilizer.	1
30.	How is sulphur impurity removed from an alloy?		*	(c)	What are superphosphate fertilizers?	2
1+ =2	SECTION—C		35	(a)	What do you mean by environment-	
			. 55.	(4)	friendly paint?	1
Inst	wer any five questions from the following:	-05		(b)	Why are additives used in paints?	1
	5×5	=25		(D)	wily are additives used in paints?	*
31.	(a) What are coloured glasses? How are they made?	2		(c)	What is anodizing? Explain. 1	+2
	inoj maas.	_	26	(~)	What are different types of metallic	
	(b) Write the types of ceramics and their uses.	3	30.	(a)	What are different types of metallic coatings?	2
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J23/	/820 (Continue	ed)	J23	/820	(Turn Ove	er)

Car.	(b) What do you mean by lake pigments?	1
8	(c) What are the role of binders in paints?	1
	(d) What are the dyes used in paints?	1
37.	What is lead-acid battery? Explain its working principle.	5
38.	(a) Write a short note on solar cell.	2
78t	(b) Explain the working principle of fuel cell.	3
39.	(a) Write a short note on manufacture of steel.	3
All.	(b) Differentiate between different types of steel.	2
40.	(a) Discuss heat treatment of steel.	3
	(b) What are stainless steel? Mention its composition. Mention a few uses.	2

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