## Model Question of SSC Examination 2021 for All Board

Chemistry

Subject Code

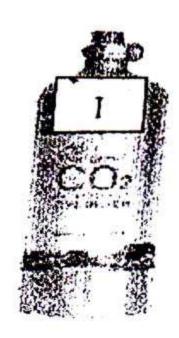
Time - 2 hours 35 minutes

Creative Essay Type Questions

Full marks — 50

[N.B.-The figures in the right margin indicate full marks. Read the stems attentively and answer any five of the following questions.]

#### ▶





What is rust? a.

Explain the change of burning of candle? b.

- If the caps are opened of the stem cylinder then which gas spread out faster, explain?
- How will you obtain (I) gas from (II) and (II) from (I), explain.
- 2. X, Y and Z are three elements of the periodic table which atomic number are 1, 6 and 8.
  - What is boiling point?

- b. Explain what is lone pair and bond pair electron.
- c. Explain the bond formation process between Y and Z element.
- d. Compound of X, Z and Y, Z which boiling point is high and why, explain?

### 3.

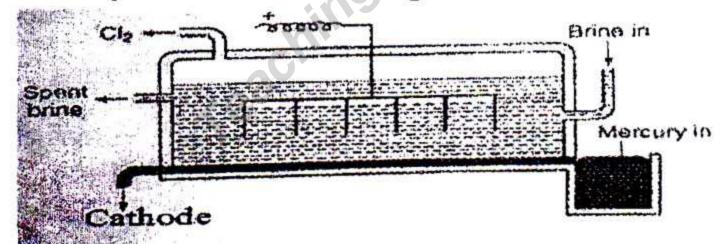
Element	Atomic number
Α	14
В	17
Е	19

- a. What is modern periodic law?
- b. Explain that oxidation number and valence are not same.
- c. Why 3rd is vacant in electronic configuration of E element of the stem?
- d. If compound of AB<sub>4</sub> and EB mixed water what will happen, explain?
- 4. ► In compound R, C = 85.71% and H = 14.29%
- a. What is soap?
- b. Explain the beaching action of bleaching powder.
   2

1

c. Determine the molecular formula of R of the stem. 3

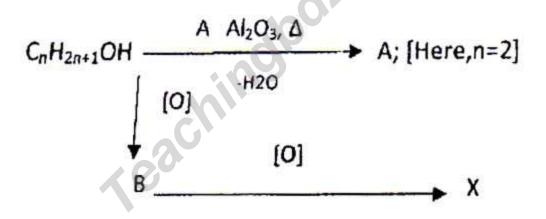
- d. Is it possible to prepare fatty acid from R compound, explain?
- 5.  $\triangleright$ i.  $N_2 + H_2 \Leftrightarrow 2NH_3$ ;  $\Delta H = -92.2$ kj/mol ii.  $H_2S + Cl_2 = 2HCl + S$
- a. What is pH?
- b. Explain between alkane and alkene which is more reactive?
- c. Explain the effect of temperature in (i) reaction. 3
- d. Explain with logic reactions (i) & (ii) represent how many types of reactions?
- 6. ► To produce NaOH following cell is used.



- a. What is glass cleaner?
- Explain that metal extraction is a reduction process.
- Mention the reactions that happen in above cell.

- d. Explain the role of the compound that obtains in above cell to identify metal ion.
- 7. ▶ We used different types of battery like— i) Dry cell ii)
   Mercury cell iii) Lead storage battery iv) Lithium battery etc.
- a. What is salt bridge?
- b. Explain recycling metal. 2
- c. Explain how electron is transferred in (i) cell?
- d. Explain the effect of battery on health and environment.

# 8.



- a. What is oleum?
- b. Why soap is corrode in hard water?
- c. How will you proof A is saturated or unsaturated, explain?
- d. How aqueous solution of X preserve food, explain. 4

Time	25	minutas
Time —	43	minutes

#### **Creative Multiple Choice Questions**

Subject Code 1 3 7
Full marks — 25

[NB. Answer all the questions. Each question carries one mark. Block fully, with a ball point pen, the circle of the letter that stands for the correct/best answer in the "Answer Sheet" for the Multiple Choice Questions Examination.]

		the same of the sa	and managed consider gracemons assummations,	
	Which one is	inorganic compound?	iii. disappear the colour of aqueou	S
	Water	Starch	solution of Bromine	
	© Protein	d fat	Which one is correct?	
	Diffusion rate de	epends on-		
	i. temperature	<b>6</b> .	© i @ i, ii & iii	
	ii. molecular ma	SS	<ol><li>B compound may be used to prepare</li></ol>	•
	iii. state of the su	bstance	i. ethane ii. polythene	
	Which one is con	rrect?	iii. ethene	
	(a) i	⊕ ii	Which one is correct?	
	© i, i & iii	(d) i & ii	a i & ii b ii & iii	
<b>.</b>		e is used in pacemaker?	© i, ii & iii	
	<sup>89</sup> Sr		8. Which one is called thermoplasti	ic
	© 99Tc	@ 125Pd	polymer?	
	What is the nui	nber of electron in the		
	just before of las	st shell of Cr atom?	© Fibre glass @ Epoxy glue	
	(a) 13	<b>(b)</b> 12	9. Which type of reaction is occurred i	n
	© 11	<b>(1)</b> 14	anode of electrochemical cell?	
i,	What is the fir	st element of actinide	Reduction	
	series?		Precipitation     Output     Description     The second s	
	@ Cerium	(b) Actinium	© Oxidation	
	© Thorium	Lanthanum	Addition	
See	the reaction a	nd Answer next two	10. What is the formula of Magnetite?	
lue	stoins—		Fe <sub>3</sub> O <sub>4</sub> FeO	
26	OH OH C	$H \xrightarrow{H_2SO_4} B$	© Fe <sub>2</sub> O <sub>3</sub>	
	CH₃CH₂C	$H \xrightarrow{-H \cdot O} B$	11. 🔝 In duralumin, percent compositio	n
	B compound	reacted with dilute	of Cu is-	
		tassium permanganate		
	to—	mostam permangament	© 35% @ 65%	
	i. produce glyco	ol compound	Read the stem and answer next tw	0
	ii. indicate do	[마스크리크] 기름(이스크리	questions.	
	compound		$H_2C = CH_{2(g)} + H_{2(g)} \xrightarrow{NI, 180-200°C} 'X'_{(g)}$	
	Segretario de Mesica Novembro		NI, 180-200°C	

 $X' + [O] \longrightarrow Y' + H_2O$ <a href="https://teachingbd24.com">https://teachingbd24.com</a>

12.	Wha	t is	'Y'	?									(	છ (	Jro	trop	ine		(d)	U (	ram	ide		
	@ C	H3(	CH <sub>2</sub> (	CH <sub>3</sub>		<b>6</b>	CH	3COO	H			20	), 1	f ca	ılçi	um	car	bide	e is	hea	ted	wit	h w	vate
	@ C	H3(	CH <sub>2</sub> (	HC		(d)	HC	HO					,	whic	ch g	gas	wou	ld t	e p	rod	uce	d?		
13.							Car	bon i	n'Y	1?			(	a) E	the	ene			6	) A	cety	lene	;	
	@ 1						209						(	O N	<b>det</b>	han	e		(1)	P	ope	lene	;	
	© 2	8%				(1)	409	6				21	l. I	Does	s w	hic	h pa	irt (	of a	soa	р с	lear	ı gı	reas
14.	How	m	any	ato	ms	are	pre	esent i	n 1	g of	25		(	dirt'	?		25						0.73	
	wate	r?	0000				S:-						(	a) N	Va+				<b>6</b>	R	CO	<b>O</b> -		
	@ 3	.346	5 x 1	$10^{22}$		<b>6</b>	6.0	$23 \times 1$	$0^{23}$				(	c) F	3				(d)	0	H-			
	© 1	.004	1 x 1	$0^{23}$		(1)	5.0	$2 \times 10$	22			22	2.	The role of Carbonic acid in cold										
15.	Wha	t i	s t	he	ord	ler	of	reacti	vity	of	ð			drin										
	halogen?													i. to accelerate the digestion process										
	@ F	2>C	12>1	2>B	<b>r</b> <sub>2</sub>	<b>6</b>	$F_2 >$	·Cl <sub>2</sub> >B	$r_2 > 1$	2									200			•		lov
	© C	'l <sub>2</sub> >	$F_2 > E$	3r <sub>2</sub> >	$\cdot l_2$	(1)	I <sub>2</sub> >	Br <sub>2</sub> >C	l <sub>2</sub> >F	2				ores								0		
16.	*	A2(9	0 +	B	2(g)	_	<b>→</b>	2AB(g)	; b	ond	n						the s	wee	et te	st o	f dr	inks		
	energies of A-A, B-B and A-B are X,											iii. to give the sweet test of drinks Which one is correct?												
	Yan	d Z	res	pec	tive	ly.					X			a) i						) ii				
	What is the AH of the reaction?												© i & ii							iii				
	(a) $2Z - X - Y$					ⓑ 2Z + X + Y						2		Which is the monomer of nylon?										
	© 2	Z –	X+	·Y		(d)	X-	Y - 1	2Z			~		a [							• •• •		8	
17.	Wha	t is	the	col	our	of (	CuS	O, cry	stal	?				و ا (ق			-		UIU					
	(a) B	Ca.			47/24-0	22	Wh	A A SELECTION	-1111.7555					© F		•		iuc						
	© G	ree	n				4							ر (ق				da						
18.	N					-		Sn4+	w	hich	e.	7		7					n		+ 06	Du	an	.9
	grou					1223			7	217-19190		4		Wha					(75)				an	e.
	(a) Fe <sup>3+</sup> , Sn <sup>4+</sup> (b) Sn <sup>2+</sup> , Fe <sup>2+</sup>									<ul><li>ⓐ − 129°C</li><li>ⓒ − 138°C</li></ul>						1.00	· [1] 이 - [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]							
								+, Sn24				848		77					33	X				
19.	Urea in soil is dissociated in presence of 25.											20				-	H G	f wa	ater	is t	ole	rabl		
	whic	h e	nzyı	me?	1									for (			7.0						_	
	(a) Uric acid (b) Ureage										(	a) 4	.5	- 9.	5		(b)	6.	5	10.5	5			
						1 m-34					- 0.54	(	© 3.5 – 7.5				① 7.5 – 11.5							
Ans.	1 (3)	2	©	3	<b>(b)</b>	4	<b>a</b>	5 <b>(b)</b>	6	@	7	<b>a</b>	8	<b>a</b>	9	<b>6</b>	10	<b>a</b>	11	<b>6</b>	12	<b>(b)</b>	13	(1)
Y	14 ⓐ	15	3	16	0	17	(a)	18 🕲	19	<b>(b)</b>	20	<b>6</b>	21	<b>a</b>	22	0	23	<b>a</b>	24	©	25	@		