	Subject Code: 1 3	7		
Model Question of SSC Examination 2016				
r:	Sub: Chemistry (Creative)	~ 40		
ime	: 2 Hours 10 minutes (Answer any four of the following Questions)	.5-40		
1	$ A + 3O_2 \rightarrow 2CO_2 + 2H_2O $			
	Here 'A' is an organic compound.			
a.	What is α-particle?	1		
b.		d-		
U.		2		
•	Explain. Write the preparation of compound 'A' mentioning	n a		
c.		3		
a	chemical reaction. Is it possible to prepare an organic acid from compound.	nd		
d.		1		
2	'A'? Explain it with reactions.	7		
4.	► $N_2(g) + 3H_2(g) \leftrightarrow 2A(g)$ $\Delta H = -92kJ$			
5	['A' is an inorganic compound]	1		
	What is polarity?	1		
b.	Mention the differences between nuclear fission a	na		
	nuclear fusion reaction.	2		
c.	Show that compound 'A' is a base.	3		
d.	Can you prepare at least two fertilizers by using compou	nd		
	'A'? Describe it.	4		
3.	► X is a kind of mineral of Aluminium and Y is a miner	ral		
of	Zinc. Aluminium and zinc metals are extracted in ty	vo		
di	fferent ways.			
a	What is flux?	1		
b.	What is frush process? Explain.	2		
c.	Compare the reactivity of metals mentioned in the stem.	3		
d.	Two metals are extracted in two different ways. Analyse it.	4		

Subject Code: 1

Model Question of SSC Examination 2016 Sub: Chemistry (MCO)

im	ne: 35 minutes	Total Mar	rks-3
	[Darken the circle (O) of the correct of	ption from the following alternatives	s]
1.	What is the main ingredient of	STP of K ₂ CO ₃ is 90% pure	of 49
	tolilet cleaner?		4
	ⓐ CH₃COOH ⓑ NaOH	g? <a>a 7.88mL b 7.16dm ³	
	© NaHCO ₃ d Ha ₂ CO ₃	© 7.88m^3 d 7.16cm^3	
2.	Which one is correct according to	11. How many lone pair electro	
	energy?	the central atom of phosphine	
	(a) $4s > 3d > 3p$ (b) $3s > 4d > 3d$	ⓐ 2 ⓑ 0 ·	
	© $4f > 5p > 4p$ @ $3d > 4p > 4d$	© 3	
3.	Halogens —	12. Acceptance level of arsen	ic in
	i. Belong to group 17	Bangladesh is —	W-0-0-00 00F-0
	ii. Are salt makers	i. 0.01mg/L	
	iii. Form halide ions	ii. 0.01mg/dm ³	20
	Which one of the following is	iii. 0.01mg/m ³	
	correct?	Which one of the followi	ng is
	(a) i & iii (b) i, ii & iii (f)	correct?	
	© ii d i, ii	a ii & iii b i, ii & iii	i
4.		© i & ii d i & iii	
	(a) 1.96g/cm ³ (b) 1.96g/dm ³	13. Calamine is —	
	© 1.96 Kg/dm ³ d 1.96g/m ³	(a) ZnCO ₃ (b) Fe ₃ O ₄	
5.	Which one is not alkali?	© HgS	
•		14. Cycloalkanes are —	
	© NaOH @ KOH	i. C ₆ H ₁₂	
6	Wood is mostly —	ii. C ₄ H ₈	
6.	O - O O O O O O O O O O O O O O O O O O	iii. C ₆ H ₁₄	
	(a) Proten (b) Starch (c) Cellulose (d) Wax	Which one of the followi	no is
A	swer next two question on the basis	correct?	
	7 TAN 10 TO TO TO THE TO THE PART OF THE TOTAL STATE OF THE TOTAL STAT	(a) i & iii (b) i, ii & iii	Ē
	following stem sotope	© ii & iii	
23	35X 15	15. Which of the following elem	ent is
23	38X 85	not halogen?	
7.	What amount of ²³⁵ X exist in 1000	(a) Fluorine (b) Bromine	3
/.	of X atom?	© Chlorine d Nitrogre	
	(a) 15 (b) 150	16. Which one is formed when	220
	© 50 @ 85	dissociates spontaneously?	2 (0.0
0	<u> </u>	(a) ^{206}Pb (b) ^{234}Th	
8.	of X?	© ²⁴² Pu	
	(a) 236.5 (b) 237.5	17. Which one has more melti	ing 8
	© 237	bolling point?	8
	0	(a) C ₄ H ₁₀ (b) C ₆ H ₁₄	
	nswer next two question on the asis following stem	© C ₁₀ H ₂₂	
	g of K ₂ CO ₃ gives 20g of K ₂ O on	18. Soot is —	
	ating.	i. Carbon particles	
9.		ii. Harmful for health	
۶.	(a) 5.9% (b) 8.5%	iii. Layer of sulfur	
	© 69% d 59.92%	Which one of the follow	ing i
10		correct?	
10	. What will be the volume of CO ₂ at	(a) i & iii (b) i. ii & ii	i
		© ii & iii	120

19.	Same number of valence electron	© Combustion (d) Synthesis
	containing elements are —	27. Percent composition of Cu in
	i. Be ii. O	CuSO ₄ , 5H ₂ O?
	iii. Sr	(a) 25.45% (b) 36.07%
	Which one of the following is	© 12.83% @ 57.72%
	correct?	28. Minerals are —
	(a) ii & iii (b) i, ii & iii	· p · l
	© i & iii	i. Coal
20.	In electrochemical cell—	iii. Natural gas
	 anode is negatively charged 	Which one of the following is
	 ii. oxidation occurs in anode 	correct?
	iii. reduction occurs in cathode	(a) i, ii & iii (b) i & iii
	Which one of the following is	© ii & iii
	correct?	29. The orc without magnetic
	@ ii & iii	property is —
	© i & iii	(a) F_2O_3 (b) TiO_2
21.	Which one diffuses first?	© FeWO ₄ @ FeO.Cr ₂ O ₃
	$\textcircled{a} SO_2 \qquad \textcircled{b} CO_2$	30. What is wax —
	© NH ₃	(a) Alkali (b) Salt
22.	1 ppm = ?	
	i. mg/L	
	ii. mg/m ³	31. The type of bonds between two
	iii. mg/dm³	carbon atoms in CaC ₂ are —
	Which one of the following is	a Two sigma and one pie bond
	correct?	b one sigma bond
	(a) i, ii & ii (b) ii & iii	© one pie bond
	© i & iii d i & ii	d one sigma and two pie bond
23.	Which one is thermoplastic	32. Rust is —
	polymer?	i. Iron oxide
	Polyvinyl chloride	ii. formed by Fe, O ₂ , H ₂ O
	(b) Bakelite	iii. Brown in color Which one of the following is
	© Fiber glass	
	d Epoxy glue	correct? (a) i & ii (b) ii & iii
24.	What is the bond energy of Cl-Cl?	
	(a) 435 kJ/mole (b) 244kJ/mole	© i, ii & iii d i & iii 33. Which one of the following is
	© 326 kJ/mole @ 498 kJ/mole	alkaline earth metal?
25.	Chemicals which can be used to	(a) Al (b) Na
	ripen fruits are —	© Ca
	i. Ethephon	34. Which one of the following
	ii. Bethylene	limestone?
Υ.	iii. Calcium carbide	(a) CaCO ₃ (b) CaO
	Which one of the following is	© CaCl ₂
	correct?	35. Which one is detergent?
	(a) i & ii (b) i & iii	(a) C ₁₂ H ₂₅ -O-SO ₃ Na
	© i, ii & iii	
26.	Electricity is produced by the	
	reaction—	
	a Addition b Analysis	d C ₁₈ H ₃₇ COONa
E	19293949596979899910	(b) 11 (a) 12 (c) 13 (a) 14 (a) 15 (d) 16 (b) 17 (c) 18 (d) 19 (d) 20 (c)
ব্যাত		
19 2	21 © 22 © 23 @ 24 % 25 © 26 % 27 @ 28 @ 29 @ 30 @	9 31 9 32 9 33 9 34 9 33 9