ABL(C)	he internal circuit of a galvanic
Substance) - Samunic
Cell	(b) ions
(a) electrons (b) electrons and ions	(d) none of these
(c) both lectrons	
Ans.(b) with dilute II SO	, to give II, but Cu does not be-
ne) Zn reacts with the	The Botton; mil Cit does not be-
cause.	notential than but
(a) Zn has a lower reduction	n potential than hydrogen
7- has a night reduction	in potential than hydrogen
(a) Cu has a lower reduction	potential than hydrogen
(d) None of these	
" - alallurev, line is sites	ance used to convert
(a) in HISIDIO IIII DUI ILLOS TO TO	Side illuterial
(b) fusible impurities to intu	sible material
(c) minerals into silicate	
(d) soluble particles to insol	uble particles
1 - (9)	
(nl) An alloy which does not con	ntain Cu is
(a) bronze	(b) solder
(c) brass	(d) bell metal
Ans.(b)	
vii) Backlite is made by the poly	merisaion of
(a) phenol and formaldehyde	
(b) melamine and formaldeh	yde
(c) Urea and formaldehyde	and the second s
(d) Ethylene glycol and phth	alic acid
rur (a)	
viii) Amount of oxygen required	d for exidation of both biologi-
cal active and inert organic	
(a) BOD (b) COD (c	
(a) BOD (b) COD (c) O ₂ . (d) Notice
dir(b)	
2 Cha anguar Shain halaf	
2.2 Give answer SLx in brief.	tion of the followings
) Give the electronic configurations.(a) H* = 152	non of the followings.
(b) $Na^{\circ} = 1s^2, 2s^2, p^6$	
(c) $F^{\circ} = 1s^{2}, 2s^{2}, 2p^{6}$	4 4 2 2 110
(d) $Cu' = 1s^3, 2s^3, 2p^6, 3s^3, 3$	p°, 4s°, 3d1°
i) How	
llow many shells, subshell	is orbitals and electrons are
23?	ile number II and atomic mass
1 C C C C C C C C C C C C C C C C C C C	
ns.Refers to chapter 1 Q. no. 13	

III) Why does blue colour of CuSO, solution get discharged when an iron rod is dipped into it? Mrs. When iron rod is dipped into CuSO, solution the iron reacts

with CuSO, solution and gives Ferrous sulphate FeSO, and the blue colour of CuSO, solution gets discharged and we we get following reaction

CuSO,
$$\circ$$
 Fe \rightarrow FeSO, \leftrightarrow Cu(\downarrow)

(iv) Define the following:

(a) Gangue

(b) Flux

(c) Ductility (d) Mallaability

Ans: Refers to chapter 3 Q no 2

(v) Discuss the purpose of alloying metals?

Ans. Refers to chapter 3 Q. no. 3

(vi) What are the main sources of Air pollution?

Ans. Refers to chapter 5 Q. no. 3

(vii) Write about Global warming.

Ans. Refers to chapter 5 Q. no. 10(d)

Q.3 Answer the following:

(i) What is Aufbau principle? Write down the no. of unpaired electron present in following?

$$(A1. no. Fe 26, Cl = 17)$$

(a) Fe (b) Ct

Ans. Refers to chapter 1 Q. No. 16

(ii) What is Faraday's Law of electrolysis? Explain.

Ans. Refers to chapter 2 Q. no.13

(iii) Discuss the electrolysis of CuSO, solution by using Cu electrodes & Platinum electrodes.

Ans. Refers to chapter 2 Q. no. 10

Q4. How meh copper will be deposited on the cathode of an electrolytic cell containing CuSO, solution by the passage of a current of 2 amperes for 30 minutes (At mass of Cu =

Ans. I = 2 amp : t = 30 minutes = $30 \times 60 = 1800$ sec.

$$Cu = 63.5$$
 $Cu = Cu^{2} + 2e^{-}$

$$Z = \frac{\text{equivalent weight}}{\text{mole of e}^2} = \frac{63.5}{2 \times 96500} = 3.3 \times 10^{-6}$$

m = zit; = 3.3 × 10⁻⁴ × 2 × 1800 = 1.184 gram of Cu So, 1.184 gm of copper will be deposited on the cathode of an electrolytic cell.

Q5. Write down the two methods employed for the preperation of alloys.

Ans. Refers to chapter 3 Q. no. 8

Q6. Define and explain the term addition and condensation polymerisation with suitable example.

Ans. Refers to chapter 4 Q. no. I