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	OM	IK TEST SERIES			
CLASS: 10	CHEM	CHEMISTRY FULL TEST		MARKS:70	
				TIME: 3 HRS	
		PART – I			
Choose the best answer				12x1=12	
1. Rare gases electr	on affinities are				
a) 1	b) 0	c) 2	d) 4		
2 is the import	tant metal to form a	amalgam.			
a) Ag	b) Hg	c) Mg	d) Al		
3 group conta	ins the member of	halogen family.			
a) 17 th	b) 15 th	c) 18 th	d) 16 th		
4 is the functional group of ether.					
a) -COOR	b) -CHO	c) -O-R	d)-COOH		
5. The number of co	omponents in terna	ry solution is	EM		
a) 2	b) 1	c) 4	d) 3		
6. TFM in soaps rep	resents conten	t in soap.			
a) mineral	b) vitamin	c) fatty acids	d) Carbohy	ydrates	
7. Photolysis decom	position is caused	by G.			
a) heat	b) light	c) Electricity	d) Mechanical energy		
8. The number of pe	eriods and groups in	the modern periodi	c table is		
a) 6,16	b) 7,18	c) 7,17	d) 8,18		
9. The root word for	r 2-Methylpentane i	S			
a) 2-methyl	b) ane	c) pent	d) all of th	ese	
10. The pH of the se	olution is 11. The [OH ⁻] ion concentration	on is		
a) 1 × 10-3 M	b) 3 M	c) $1 \times 10^{-11} \text{ M}$	d) 11 M		
11. Which of the fol	llowing is hygroscop	oic in nature?			
a) ferric chloride	b) copper sulpl	b) copper sulphate penta hydrate			
c) silica gel	d) none of the a	d) none of the above			
12.The gram molect	ular mass of oxygen	atom is			
a) 16 g	b) 18 g	c) 32 g	d) 17 g		

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PART – II

Answer any 7 of the following(Q.no. 22 is compulsory)

- 13. What is molar volume of gas?
- 14. What is aqueous and non-aqueous solutions? Give example.
- 15. Name the simplest ketone. Give its structural formula.
- 16. i) The general formula for alkyne is _____

ii) 100% pure alcohol is called _____.

- 17. State True or False. If false give the correct statement.
 - i) Volume occupied by one mole of diatomic molecule is 2.24lit.
 - ii) Molar mass of CO_2 is 42g.
- 18. Write any two uses of copper.
- 19. Calculate the pH of $1x10^{-4}$ NaOH.
- 20. What is metathesis reaction?
- 21. Give the balanced chemical equation of the following reactions:
- (i) Neutralization of NaOH with ethanoic acid.
- (ii) Evolution of carbon dioxide by the action of ethanoic acid with NaHCO₃.
- 22. Give the IUPAC name and molecular formula for the following
 - i) Epsom salt ii) Gypsum

PART – III

Answer any 7 of the following(Q.no, 32 is compulsory)

- 23. Explain smelting process.
- 24. i) What is meant by alloy.
 - ii) What is meant by binary solution.
- 25. i) In what way hygroscopic substances differ from deliquescent substancesii) Define mole.
- 26. What are Homologous series? Write any three of its character.
- 27. i) Define atomicity.
 - ii) Define hydrated salt
- 28. i) What is rust? Give the equation for the formatting of rust.

ii) Name the acid that renders Aluminium passive. Why?

- 29. Explain the mechanism of cleansing action of soap.
- 30. Derive the relationship between molecular mass and vapour density.

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7x2=14

7x4 = 28

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3x7=21

31. i) A solid compound 'A' decomposes on heating into 'B' and a gas 'C'. On passing the gas 'C' through water, it becomes acidic. Identify A, B and C.

ii) How would you prepare Hard soap.

32. i) Calculate % of S in H_2SO_4 .

ii) A solution is made from 35 ml of Methanol and 65 ml of water. Calculate the volume percentage.

PART – IV

Answer the following

33. a) i) Give the salient features of modern atomic theory

ii) What is amalgam?

(OR)

b) Explain the factors influencing the rate of reaction.

34. a) i) 'A' is a silvery white metal. 'A' combines with O_2 to form 'B' at 800°C. The alloy of 'A' is used to making aircraft. Find A and B.

ii) Differentiate reversible and irreversible reaction.

(OR)

b) i) Calculate the number of water molecules present in one drop of water which weights 0.18g

ii) How is ethanol manufactured from sugar?

35. a) i) Define the term solution.

ii) How is aluminium extracted from Hall-Herold process.

(OR)

- b) i) How is ethanol converted into the following i) Ethanoic acid ii) Ethanal
 - ii) Write the factors influencing solubility.

PREPARED BY O. MUTHUKUMAR, M.Sc., M.Phil., B.Ed., P.G. TEACHER IN CHEMISTRY, KARAIKAL