Class: 11		Register	
FIRST RE	VISION EXAMIN	ATION, JANUA	APY 2025
Time Allowed : 3.00 Hour	CHEM	ISTRY	Max. Marks: 70
Change the mos	PAR	RT -1	
I. Choose the mos option code and	t appropriate answer f	rom the give four all	
1. Each atom in H <sub>2</sub> . C	I, Na, S, have the oxidation	on number of	15x1=15
0) 1	b) 2	c) 0	d) 8
4) (0	are possible in the 3rd end b) 0	g) 4	d) 9
<ol><li>What would be the</li></ol>	IUPAC name for the atom	nic number 1157	
a) Ununpentium	b) Ununseptium	c) Ununbium	d) Ununquadium
	ife period of ye b) 12.3		d) 32.1
	is used as a sou	rce in the calibration	of gamma ray detectors in
nuclear chemistry?			
	b) Barium	c) Radium	d) Calcium
	sal gas constant depend	is upon — of the	
<ul> <li>a) Temperature of</li> <li>c) Number of mole</li> </ul>	es of the gas	b) Volume of the d) units of Press	sure and volume.
The heat of formati	ion of CO and CO, are	- 26.4 kCal and - 94	4 kCal, respectively. Heat
combustion of carbo	on monoxide will be		
a) + 26.4 kcal			d) + 52.8 kcal
Assertion : An idea	al solution obeys Raoult	t's law	e-solute interactions are sir
Reason : manic	deal solution, solvent, so ute-solvent interactions.	Ivent as well as solo	P-BOILITO IIII COLUMN
	RESCHIVE HER STREET		
hoth accordion s	and reason are true and	t reason is the correct	et explanation of assertion
a) both assertion a	and reason are true and	d reason is the correct reason is not the co	ct explanation of assertion prect explanation of assert
both assertion a     b) both assertion is true	and reason are true and and reason are true but a but reason is false	d reason is the correct reason is not the co d) both asserti	or and reason are false
both assertion a     b) both assertion a     c) assertion is true	and reason are true and and reason are true but but reason is false ions the solvent obeys	d reason is the correct t reason is not the co d) both asserti	on and reason are false the solute obeys's
both assertion a     b) both assertion a     c) assertion is true     For very dilute soluti     a) Henry, Raoult	and reason are true and and reason are true but but reason is false ions the solvent obeys b) Raoult, Henry	d reason is the correct reason is not the code both assertium law and the code Raoult, Raoult, Raoult	or and reason are false solute obeys ——— 's bult d) Henry, Henry
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19. State Zeroth law of thermodynamics.
20. What is green chemistry?
24 Write Davison and Germer experiment
22. How does Huckel rule help to decide the aromatic character of a compound.
23 Evelue is a set of a fleet with a situate avanue.
24. If an automobile engine burns petrol at a temperature of 816° C and if the surrounding temperature
is 21° C, calculate its maximum possible efficiency.  PART – III
III. Answer any 6 questions. Question number 33 is compulsory. 6x3=18
25. Calculate the empirical and molecular formula of a compound containing 76.6% carbon, 6.38 %
hydrogen and rest oxygen its vapour density is 47.
26. How will you prepare tritium?
27. Discuss the similarities between beryllium and aluminium.
28. Explain Joule- Thomson effect?
20 State the law of mass action.
30 What type of hybridisations are possible in the following geometenes?
a) octahedral b) tetrahedral c) square platies.
31. Write short notes on a) Resonance b) Hyperconjucation
32. How is acid rain formed? Explain its effects.
33. Give IUPAC names for the following organic compounds.
i) CHCH(CH_) - CH_OH ii) (CH_)_CH - CH = CH_2 iii) (CH_)_CH - CH_2 CH_
PART, - IV 5x5=25
ne A all the quaetione
34. a) i) What is the de Broglie wavelength (in cm) of a 160g cricket ball travelling at 140 Km hr1. (3)
ii) State Aufbau principle? (2)
(OP)
b) i) How would you explain the fact that the second ionisation potential is always higher than
first ionisation potential? (3)
In Discuss the three types of covalent hydrides. (2)
35. a) i) Explain the pauling method for the determination of ionic radius. (3)
ii) How is plaster of paris prepared? (2)
(OR)
b) Derive the values of critical constants in terms of van der Waals constants. (5)
b) Derive the values of children All for an ideal gas. (3)
36. a) i) Derive the relation between AH and AU for an ideal gas. (3)
ii) In what way real gases differ from ideal gases. (2)
(OR)
b) List the characteristics of internal energy. (5)
37. a) i) Derive the relationship between Kp & Kc (3)
37. a) I) Delive the foundations of the second of the seco
ii) State Roult's law. (2) (OR)
" TAIO I caulo ucing MO Theory (3)
b) i) Discuss the formation of NO molecule using MO Theory. (3)
TAL of malaquiar formilla L. D. Decolourios et al.
38. a) i) An organic compound (A) of molecular formula 02.12  (A) reacts with chlorine gives compound (B). Compound (A) also reacts with KBr g  (A) reacts with chlorine gives compound (C) (3)
(A) reacts with chloring gross some (C) (3)
compound (C). Identify (A), (B) and (C). (3)
ii) Briefly explain Birch reduction. (2)
(OR)
b. i) Explain S <sub>N</sub> 2 reaction mechanism. (3)
b. 1) Explain 5,2 reaction incommutate for a) alkene b) alkyne. (2)
b. 1) Explain 3,2 reaction incommunication by alkyne. (2) ii) Write the general molecular formulae for a) alkene b) alkyne. (2)
V/M.1