S.B. Arts and K.C.P. Science College Vijayapur

DEPARTMENT OF CHEMISTRY ADVANCE LEARNING

QUIZ COMPETITION 2016-17

B.L.D.E.ASSOCIATION'S S. B. ARTS AND K. C. P. SCIENCE COLLEGE VIJAYAPUR Department of Chemistry

NOTICE

All the Chemistry students of B.Sc I, III and V sem are hereby informed that a quiz competition is conducted under Dalton's Society Activity on 11/07/2016 at Seminar Hall at 4:00 pm. So, all interested students can register their names in Prof .Dr. A.S. Pujari within 10/07/2016.

Head
Dept. of Chemistry
SB Arts & KCP Sc. College
Vijayapur.

TQAC, Co-ordinator S.B.Arts & K.C.P.Science College, Vijayapur. Principal, S.B.Arts & K.C.P. Science College, VIJAYAPUR.

Details of Participants

Team	Name of the	Class
A	Students Sridevi Biradar	V
B	Rahul	III
C	Akshata M	V
D	.Akshata S	I

COMPETITION DETAILS

DATE: 11/07/2016

TIME: 4:00 to 5:30 pm

VENUE: Seminar Hall

ORGANISER: Dr. A.S.Pujar

NAME OF THE JUDGES: 1. Dr. M.I. Kumbar

2. Dr. D.M.Hiremath

	Questions asked for quiz
1.	Which of the following statements do not form a part of Bohr's model of Hydrogen atom?
a.	Energy of the electrons in the orbits are quantized
b.	The electron(s) in the orbit nearest to the nucleus has the lowest energy
C. 2	Electrons revolve in different orbits around the nucleus
d.	The position and velocity of the electrons in the orbit can not be determined simultaneously.
e.	
2.	The quantum numbers of $+1/2$ and $-1/2$ for the electron spin represent

- (a) Rotation of the electron in clockwise and anticlockwise direction respectively
- (b) Rotation of the electron in anticlockwise and clockwise direction respectively
- (c) Magnetic moment of the electron pointing up and down respectively
- (d) Two quantum mechanical spin states which have no classical analogue.

3. Bohr's model of atom is not in agreement with

- (a) Line spectra of hydrogen atom
- (b) Pauli's principle

(c) Planck's theory

(d) Heisenberg's principle.

4. Which of the following statements in relation to the hydrogen atom is correct?

- a) 3s-orbital is lower in energy than 3p-orbital
- b) 3p-orbital is lower in energy than 3d-orbital
- c) 3s and 3p orbitals arc of lower energy than 3d orbital
- d) 3s, 3p and 3d orbitals all have the same energy.

5. The third line of the Balmer series. in the emission spectrum of the hydrogen atom, is due to the transition from the

- a) fourth Bohr orbit to the first Bohr orbit
- b) fifth Bohr orbit to the second Bohr orbit
- c) sixth Bohr orbit to the third Bohr orbit
- d) seventh Bohr orbit to the third Bohr orbit

6. The ground state configuration of Fe3+ ion in gaseous state is:

a) [Ar]18 3d3 4s2

b) [Ar] 18 3d6 4s2

c) [Ar] 18 3d5

d) [Ar] 18 3d6.

7. For which of the following sets of quantum -numbers an electron will have the highest energy?

a) 3,2,1,1/2

b) 4,2,-1,1/2 c) 4, 1,0, -1/2

d) 5,0,0, 1/2.

o. The gerent	ist who the not	contribute in th	e con	struction of periodic table?
a. Al-Ra	zi		b.	Moseley
c. Dobe	reiner	n karifer se a se se se La tradeción de la companya de la c	d.	Democritus
9. An elemen	nt having low v is likely to belor	value of ionizating to	ion e	nergy and low value of electron
a. Group	IA	The World Control of the Control of	b.	Group IB
c. Group	VIIA		d.	Group VIII
a) three b)	four c) five			ne number 10,450?
b) The closen	of how often an e ess of a measur of significant fig	ed value to the	real	value.
	on of the periods b) lanthanides		-	ong oxidizer? one of these answers is correct.
13. Which of the a)KCl b)K(ntains both ion D) H ₂	ic and	l covalent bond?
14. Real gases	do not react as	expected		
a) ideal gasb) noble gasc) non-ideal gasd) inert gas				
15. The proces	s of separation	of a racemic	modi	fication into d and l enantiomers
a) Resolution	b)Dehydration	c) Revolution	d) D	ehydrohalogenation

	16. Which one of the following species contains a polar covalent bond?				
	a) oxygen b) carbon dioxide C) sodium chloride d) magnesium fluoride				
	17. Which one of the following elements has valence electrons in the $n = 3$ shell?				
	a) beryllium b) oxygen C) silicon d) neon				
•	18. Which one of the following elements has valence electrons in the $n = 3$ shell?				
	a) beryllium b) oxygen C) silicon d) neon				
	19. Which one of the following species has the same electron configuration as the Al3+ cation? Which one of the following species has the same electron configuration as the Al3+ cation?				
	a) F - b) Cl- c) S-2 d) O-				
	20. Which of the following cyclohexane conformations has the MOST energy?				
į	a. chair b. half-chair c. boat d. twist-boat				
	21. Which of the following may be separated by ordinary physical methods?				
	a. a pair of identical molecules b. a pair of enantiomers				
(c. a pair of diastereomers d. a pair of identical atoms				
2	22. Which of the following may be separated by ordinary physical methods?				
;	a. (R)-3-bromo-1-butene and (S)-3-bromo-1-butene				
b	o. cis-2-bromo-2-butene and trans-2-bromo-2-butene				
(c. (2R,3S)-1,2-dibromobutane and (2S,3R)-1,2-dibromobutane				
C	d. (R)-2-bromobutane and (S)-2-bromobutane				
2	3. Propane (C_3H_8) and butane (C_4H_{10}) in liquid form are used in				
	a) LSG b) LPG c) ECG d) LNG				

24.	How many	y isomers :	are contain	ed by Hex	ane?			
	Two Three Four Five							

25. A person living in Shimla observed that cooking food without using pressure cooker takes more time. The reason for this observation is that at high altitude:

a) pressure increasesb) temperature decreasesc) pressure decreasesd) temperature increases

PRIZE DISTRIBUTION

Prize distribution is done during Hindi Divas celebration. To the winners of quiz completion the chief guest distributed the prizes.

PRIZE	NAME OF THE WINNERS
FIRST	Sachin Y R
SECOND	.Savita. M. B

First Prize winner:



Second Prize winner:



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