

B.L.D.E. Association's

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

Vijayapur

DEPARTMENT OF CHEMISTRY

ADVANCE LEARNING

QUIZ COMPETITION

2017-18

DEPARTMENT OF CHEMISTRY

NOTICE

Chemistry Students of B.Sc II, IV and VI sem are informed that like every year, this year also Department of chemistry is conducting a quiz competition on 20/ 1/2018. The competition will be held in room no. 25 at 3:00 pm. So, students can enrol their names to Prof. S. S. Sathihal on or before 18/ 01/2018.



Head

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



IQAC, Co-ordinator

S.B.Arts & K.C.P.Science College,
Vijayapur.

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Principal,

S.B.Arts & K.C.P. Science College,
VIJAYAPUR.

A quiz competition is conducted for chemistry students in room no. 25 on 18/01/2018. There were total 10 students participated into 5 groups. In each group two students .

Prof. A.B.Teradale was the organiser. Each team was given one minute time to answer. Points allotted for Correct answer was two and there was no negative mark for wrong answer or no answer. Participant team can say pass if answer was not known. Total 20 questions were asked based on basic science and chemistry. Prof. M.S.Yadawe was the judge for this competition.



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1. 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 increases
 - b) temperature decreases
 - c) pressure decreases
 - d) temperature increases
2. Which of the following property of water can be used to explain the spherical shape of rain droplets?
 - a) viscosity
 - b) surface tension
 - c) critical phenomena
 - d) pressure
3. Increase in kinetic energy can overcome intermolecular forces of attraction. How will the viscosity of liquid be affected by the increase in temperature?
 - a) Increase
 - b) No effect
 - c) Decrease
 - d) No regular pattern will be followed
4. How does the surface tension of a liquid vary with increase in temperature?
 - a) Remains same
 - b) Decreases
 - c) Increases
 - d) No regular pattern is followed
5. What is the name of the following statement: "When two systems are in thermal equilibrium with a third system, then they are in thermal equilibrium with each other"?
 - a. First Law of Thermodynamics
 - b. Second Law of Thermodynamics
 - c. Mechanical equivalent of heat
 - d. Zeroth Law of Thermodynamic
6. The average molecular kinetic energy of a gas depends on:
 - a) Pressure
 - b) Volume
 - c) Temperature
 - d) Number of moles
7. Kinetic Theory is based on an ideal gas model. The following statements about the ideal gas are true EXCEPT:
 - a) The average molecular kinetic energy is directly proportional to the absolute temperature
 - b) All molecules move with the same speed
 - c) All molecules make elastic collisions with each other and the walls of the container
 - d) The attractive force between the molecules can be ignored
8. Internal energy of an ideal gas depends on:
 - i. the volume of the ideal gas
 - ii. the pressure of the ideal gas
 - iii. the absolute temperature of the ideal gas
 - a) I
 - b) II
 - c) III
 - d) I and II
9. Which of the following temperature scales doesn't have negative numbers?
 - a) Celsius
 - b) Kelvin
 - c) Reaumur
 - d) Fahrenheit
10. Acryl aldehyde is –
 - a) A saturated aldehyde
 - b) An alkene
 - c) A polymer
 - d) An unsaturated aldehyde
11. The number of possible alkyl groups of iso octane are –
 - a) 1
 - b) 3
 - c) 5
 - d) 6
12. Common name of the structure

$$\begin{array}{c} \text{CH}_2 - \text{OH} \\ | \\ \text{CH}_2 - \text{OH} \end{array}$$
 - a) Ethylene Glycol
 - b) Ethene dialcohol
 - c) Glycerol
 - d) Ethylene alcohol
13. Common name of the compound $\text{C}_6\text{H}_5\text{CHO}$
 - a) Anisole
 - b) Benzaldehyde
 - c) Salicylaldehyde
 - d) None of these

38. The number of gem dihalides possible with the molecular formula $C_2H_4X_2$ and $C_3H_6X_2$ is given by the set :
- a) 1, 2 b) 2, 1 c) 2, 2 d) 1, 1
14. The boiling point of a compound does not depend upon
- a) Solubility of the compound in water
b) Hydrogen bonding
c) Size of molecules
d) Polarity of the molecule
15. A mixture of camphor and benzoic acid can be separated by which of the following technique?
- a) Chemical methods
b) Sublimation
c) Fractional distillation
d) Extraction with a solvent.
16. By decreasing the pressure, the boiling point of a liquid
- a) Increases
b) Decreases
c) Remains constant
d) May increase or decrease
17. Sublimation cannot be used for purification of
- a) Naphthalene
b) Camphor
c) Benzoic acid
d) Urea.
18. In Lassaignes test, the organic compound is fused with a piece of sodium metal in order to
- a) increase the ionization of the compound
b) decrease the melting point of the compound
c) increase the reactivity of the compound
d) convert the covalent compound into a mixture of ionic compounds.
19. The formation of violet colour when sodium nitroprusside is added to sodium extract indicates the presence of
- a) Nitrogen
b) Sulphur
c) Halogens
d) Carbon
20. When a solid vaporizes directly without melting, the process is called
- a) evaporation
b) Sedimentation
c) Sublimation
d) Saponification

Prize distribution was done during, Science day celebration function. Chief guest of the function distributed the prizes to the winners.

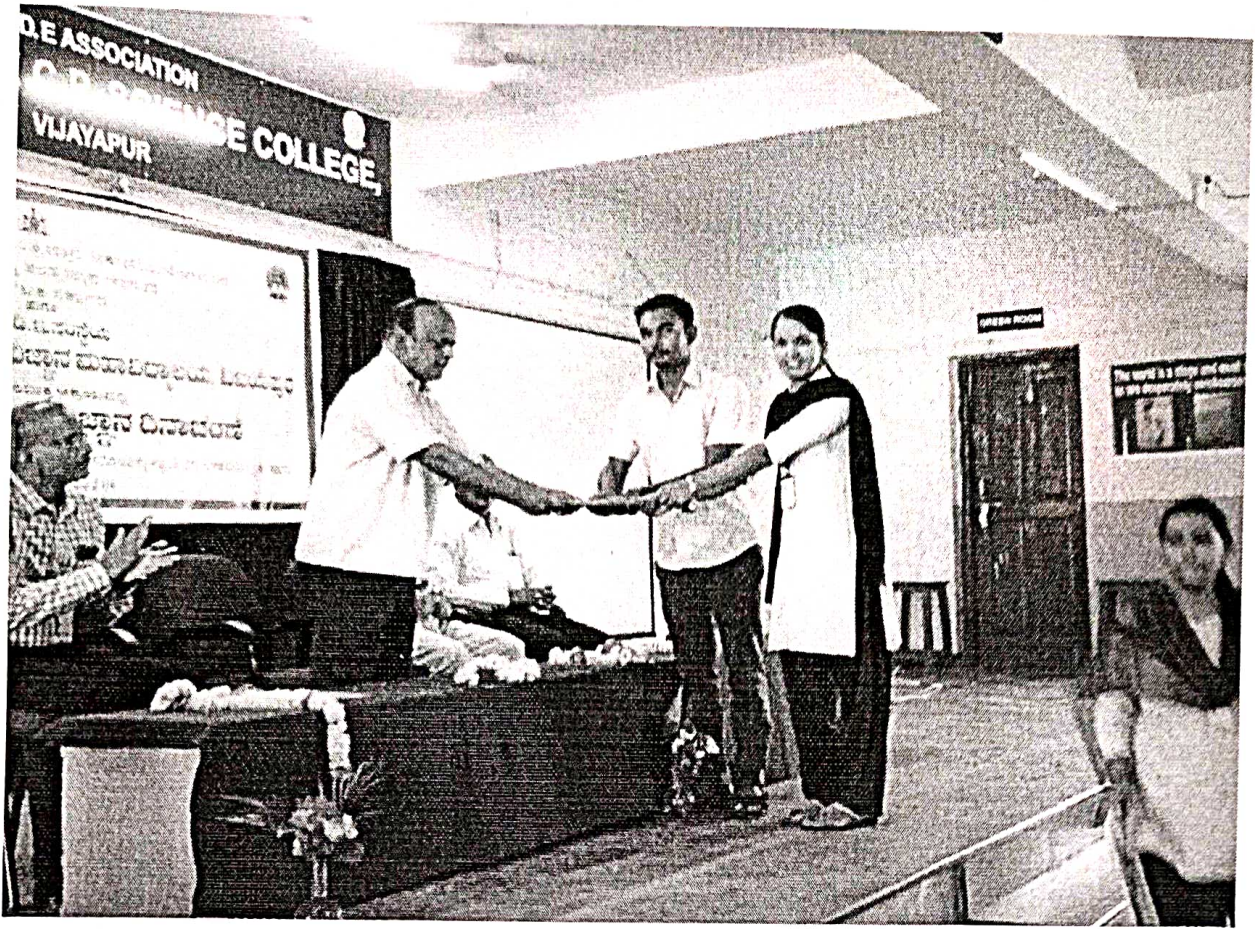
1. First Prize : 1. Miss. Kavya
 2. Mr. Ramesh

2. Second Prize: 1. Miss . Ranjita
 2. Miss. Renuka

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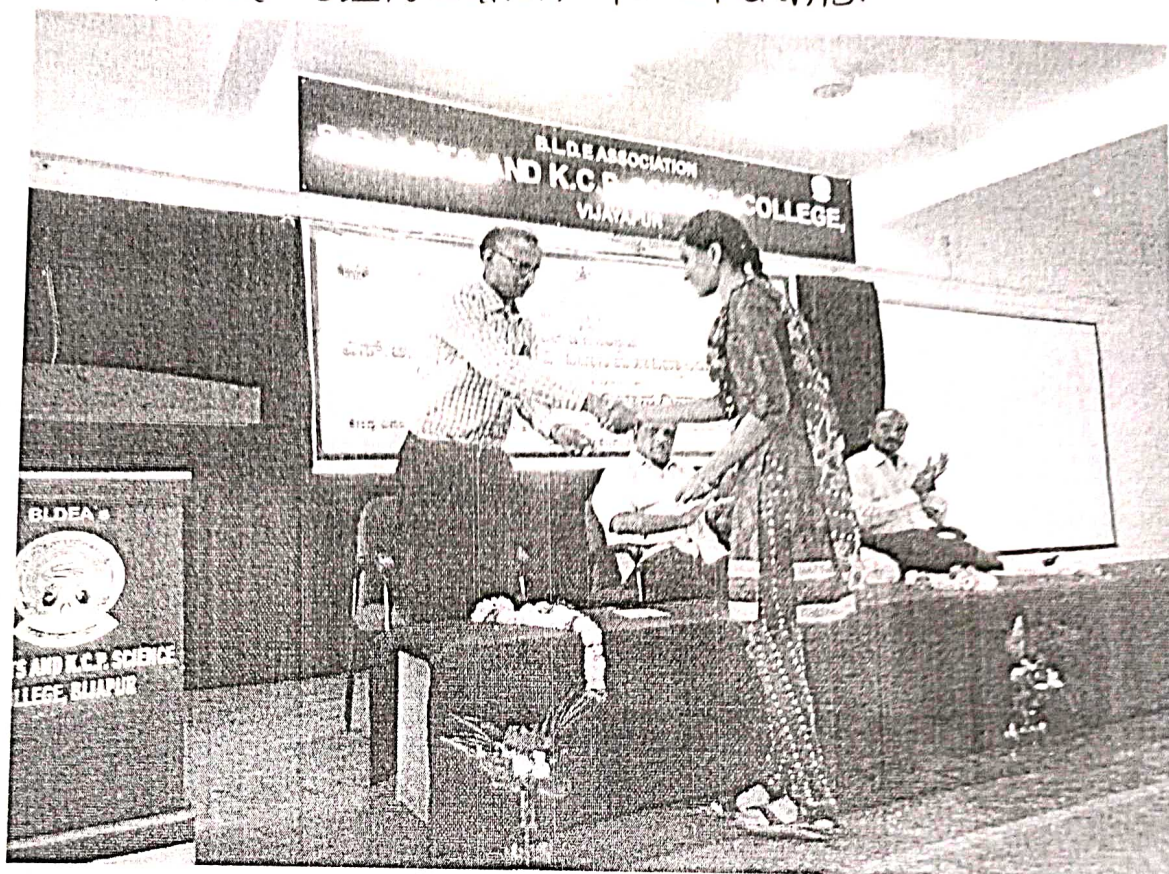
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Prize distribution to students

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