

Date: - 13/02/2019

To,  
The Principal  
Pravara Medical Trust's,  
Arts, Commerce and Science College,  
Shevgaon

Subject: - Permission for Conduct Quiz Competition...

Respected Sir,

With the above mentioned subject, Department of Chemistry plans to Conduct Quiz Competition for Graduate Students.

Therefore, we request you to please permit us organized to Said Competition.

Thanking You!



*J.P. Patil*  
For Principal  
Arts, Comm. & Sci. College  
Shevgaon, Dist. Ahmednagar

Department of chemistry.

Date:- 14/02/2019.

### Student Notices .

All the student of the BSc are hereby informed that, the Department of chemistry of our college is organized by the QWZ Competition on 28<sup>th</sup> feb 2019. At 10:00 am.

Interested students should register their names with prof. fundes.R by 16/02/2019 to 19/02/2019.

*Fundes*

HEAD

Department of Chemisty  
PMT'S Arts Commerce & Science  
College, Shevgaon, Dist. A'Nagar





Pravara Medical Trust,  
Arts, Commerce & Science, college Shevgaon  
Tal-Shevgaon, Dist, Ahmednagar 431502  
Department of chemistry 2018-2019

Sr.No	Name of student	class	Singereka
1]	khambhat Ashish umesh	TYBSC	<u>Ashish</u>
2]	Tupke Shubham Balasaheb	TYBSC	<u>Shubham</u>
3]	Shaikh Munna Ibrahim	T.Y.BSC	<u>Munna</u>
4]	Dehadray Dipti Panyarshwar	TYBSC	<u>Dipti</u>
5]	Mhaske Akshay Dattatray	T.Y.BSC	<u>Akshay</u>
6]	Dayma Rajal Rajendra	TYBSC	<u>Rajat</u>
7]	Dehadray Trupte Dnyaneshwar	T.Y.BSC	<u>Trupte</u>
8]	shinde abhijeet Dilip	TYBSC	<u>A.D.shinde</u>
9]	konde Madhuri Pandurang	TYBSC	<u>madurika</u>
10]	Rohit Sanjay Deshpande	TYBSC	<u>Rohit</u>
11]	<del>Deshpande</del> Kedar Rushikesh Laxmikant	TY.BSC	<u>Rushik</u>
12]	Patil shital shankar	TYBS	<u>shital</u>
13]	Palve Vaibhav Bhaskar	TY.B.S.C.	<u>Palve</u>
14]	Sapte Amol Rajendra	TY.B.S.C	<u>sapte.A.R</u>
15]	Kakade Rushikesh Shadav	T.Y.BSC	<u>Rushik</u>
16]	shaikh Vashim Anis	TY.BSC	<u>Vashim</u>
17]	khandare Bhagwat Bansi	TYBSC	<u>BBK</u>
18]	Dhawne Amol Babasaheb	TYBSC	<u>Amol</u>
19]	kakade Goraksh Ramkisan.	TYBSC	<u>Gorakhe</u>
20]	Nijave Sharad Baban	TYBSC	<u>Sharad</u>
21]	Nijave Sharad Baban	TYBSC	<u>Nijave</u>
22]	Pund Rameshwar Balasaheb	T.Y.BSC	<u>PRB</u>
23]	Shikh Irfan shivraj	T.Y.BSC	<u>S.I.S</u>
24]	Thorat ganesh madhukar	T.Y.BSC	<u>Thoratg</u>
25]	Bade Jyoti sheshwar Jyoti	T.Y.BSC	<u>Jyoti</u>

HEAD  
Department of Chemistry  
PMT'S Arts, Commerce & Science  
College, Shevgaon, Dist. A'Nagar





Pravara Medical Trust's  
Arts, Commerce & Science College, Shevgaon  
Department of Chemistry  
Quiz Competitions 2018-19

Time – 1 Hour

Marks: - 100

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**Instructions:**

- Choose the correct answer for each question.
  - Each question carries 2 marks.
  - No negative marking.
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**Q.1) Multiple Choice Question.**

1. What is the pH of a 0.001 M HCl solution?  
a) 1          b) 2  
c) 3          d) 4
2. Which of the following has the highest boiling point?  
a) Water      b) Methanol  
c) Ethanol    d) Diethyl ether
3. The unit of the rate constant for a first-order reaction is:  
a)  $\text{mol L}^{-1} \text{s}^{-1}$     b)  $\text{s}^{-1}$   
c)  $\text{mol}^{-1} \text{L s}^{-1}$     d)  $\text{L}^2 \text{mol}^{-2} \text{s}^{-1}$
4. What is the heat change called at constant pressure?  
a) Enthalpy      b) Entropy  
c) Free energy    d) Internal energy
5. In a galvanic cell, the flow of electrons occurs from:  
a) Anode to cathode                                  b) Cathode to anode  
c) Positive electrode to negative electrode    d) None of these
6. Which of the following is an aromatic compound?  
a) Benzene      b) Ethanol  
c) Acetone      d) Methane

7. The functional group in aldehydes is:  
a) -OH      b) -CHO  
c) -COOH    d) -CO-
8. Which of the following reactions is used for the preparation of alkenes?  
a) Wurtz reaction      b) Dehydration of alcohols  
c) Aldol condensation    d) Cannizzaro reaction
9. In the IUPAC name of the compound  $\text{CH}_3\text{-CH}_2\text{-CHO}$ , the suffix used is:  
a) -ol      b) -one  
c) -al      d) -ene
10. The main product of the reaction between ethane and bromine is:  
a) Dibromoethane      b) Ethanol  
c) Ethane      d) Ethene
11. Which element is the most electronegative?  
a) Oxygen      b) Fluorine  
c) Nitrogen      d) Chlorine
12. Which of the following is an ore of iron?  
a) Bauxite      b) Hematite  
c) Galena      d) Zinc blende
13. What is the oxidation state of sulfur in  $\text{H}_2\text{SO}_4$ ?  
a) +4      b) +6  
c) +2      d) +3
14. The atomic number of an element represents:  
a) Number of neutrons      b) Number of protons  
c) Number of electrons in the outer shell    d) Total number of electrons
15. Which gas is evolved when sodium reacts with water?  
a) Oxygen      b) Hydrogen  
c) Nitrogen      d) Chlorine
16. Avogadro's number is:  
a)  $6.022 \times 10^{23}$       b)  $1.602 \times 10^{-19}$   
c)  $9.8 \times 10^4$       d)  $3.14 \times 10^2$
17. The shape of a  $\text{sp}^3$  hybridized molecule is:

- a) Linear      b) Tetrahedral  
c) Trigonal planar      d) Bent

18. Which of the following is a greenhouse gas?

- a) Oxygen      b) Carbon dioxide  
c) Nitrogen      d) Argon

19. Which separation technique is used to purify liquids with close boiling points?

- a) Simple distillation      b) Fractional distillation  
c) Chromatography      d) Filtration

20. What is the empirical formula of glucose ( $C_6H_{12}O_6$ )?

- a) CHO      b)  $C_2H_4O_2$   
c)  $CH_2O$       d)  $C_6H_6$

21. What is the chemical symbol for Gold?

- a) Au      b) Ag  
c) Pb      d) Fe

22. Which gas is most abundant in Earth's atmosphere?

- a) Oxygen      b) Carbon dioxide  
c) Nitrogen      d) Argon

23. What is the pH of pure water at  $25^\circ C$ ?

- a) 7      b) 0  
c) 14      d) 10

24. Which element has the highest electronegativity?

- a) Fluorine      b) Oxygen  
c) Nitrogen      d) Chlorine

25. What type of bond is formed between two nonmetals?

- a) Ionic      b) Covalent  
c) Metallic      d) Hydrogen

26. What is the simplest alkane?

- a) Methane      b) Ethane  
c) Propane      d) Butane

27. What is the functional group of alcohols?

- a)  $-COOH$       b)  $-OH$



c)  $\text{-NH}_2$             d)  $\text{-CHO}$

28. Which of the following is a saturated hydrocarbon?

- a) Ethylene      b) Benzene  
c) Propane      d) Acetylene

29. What is the IUPAC name of  $\text{CH}_3\text{COOH}$ ?

- a) Acetic acid      b) Methanoic acid  
c) Propanoic acid    d) Ethanoic acid

30. Which polymer is used in making plastic bottles?

- a) Nylon      b) Polyethylene Terephthalate (PET)  
c) Teflon      d) Polyvinyl Chloride (PVC)

31. What is the main component of limestone?

- a) Calcium Carbonate    b) Magnesium Oxide  
c) Sodium Chloride      d) Silica

32. Which of the following is a noble gas?

- a) Hydrogen      b) Argon  
c) Chlorine      d) Fluorine

33. What is the oxidation state of sulfur in  $\text{H}_2\text{SO}_4$ ?

- a) +6      b) +4  
c) -2      d) 0

34. What is the chemical name of  $\text{NaHCO}_3$ ?

- a) Sodium Hydroxide      b) Sodium Carbonate  
c) Sodium Bicarbonate    d) Sodium Chloride

35. What is the ore of aluminum?

- a) Hematite      b) Bauxite  
c) Galena      d) Magnetite

36. Which law states that the volume of gas is directly proportional to temperature?

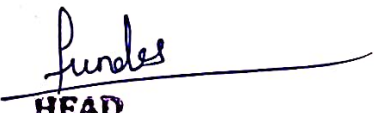
- a) Boyle's Law      b) Charles's Law  
c) Avogadro's Law    d) Dalton's Law

37. What is the SI unit of energy?  
a) Watt            b) Joule  
c) Newton        d) Pascal
38. Which property of a gas is measured using a manometer?  
a) Temperature    b) Volume  
c) Pressure        d) Density
39. What is the boiling point of water in Kelvin?  
a) 273 K          b) 310 K  
c) 373 K          d) 298 K
40. What does "enthalpy" measure in a chemical reaction?  
a) Volume        b) Heat content  
c) Pressure      d) Work done
41. What is the technique for separating mixtures based on boiling points?  
a) Filtration      b) Chromatography  
c) Distillation    d) Decantation
42. What color does phenolphthalein turn in a basic solution?  
a) Red            b) Yellow  
c) Pink           d) Blue
43. Which instrument is used to measure the pH of a solution?  
a) Spectrometer    b) pH Meter  
c) Hygrometer     d) Barometer
44. What is the stationary phase in paper chromatography?  
a) Water          b) Paper  
c) Solvent        d) Glass
45. Which of these is used to detect the presence of proteins?  
a) Benedict's Test    b) Biuret Test  
c) Flame Test        d) Litmus Test
46. What is the molecular formula of glucose?  
a)  $C_6H_{12}O_6$       b)  $C_2H_6O$   
c)  $CH_4$             d)  $C_6H_6$

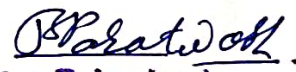


47. What is the SI unit of molar mass?  
a) g/L                      b) kg/mol  
c) g/mol                    d) kg/L
48. What is the common name of  $\text{H}_2\text{O}_2$ ?  
a) Hydrogen Peroxide    b) Water  
c) Hydrogen Oxide        d) Hydroxide
49. Which process is used to purify water by heating and cooling?  
a) Filtration                b) Distillation  
c) Decantation            d) Sedimentation
50. Which ion is responsible for the blue color of copper sulfate?  
a)  $\text{Cu}^+$                     b)  $\text{Cu}^{2+}$   
c)  $\text{SO}_4$                     d)  $\text{H}^+$

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**HEAD**  
Department of Chemistry  
PMT'S Arts Commerce & Science  
College, Shevgaon, Dist. A'Nagar



  
**Principal**  
Arts, Comm. & Sci. College  
Shevgaon, Dist Ahmednagar

Pravara Medical Trust's  
Arts, Commerce & Science College, Shevgaon  
Tal-Shevgaon, Dist-Ahmednagar 414502  
Department of Chemistry  
Organized

Quiz competition 2018-2019

Date: 28<sup>th</sup> February 2019

Organized by: Department of Chemistry

Participants: Graduate student of Chemistry.

Objective: To provide student information about the quiz competition objective for understanding the through this competition, students have received a new platform to showcase their knowledge, and their reading skill have improved.

Pravara Medical Trust's Commerce & Science College Shevgaon Department of Chemistry organized quiz competition for students. This competition was organized on 28<sup>th</sup> February 2019 at 10 am in the Chemistry Department. The purpose of organizing this competition is to make students know more about Chemistry this competition, helpful for more information.

The organizer of this competition was ~~Asst.~~ Prof. Funde S. R. Head of Department of Chemistry. The competition was kept as 30 marks in MCQ pattern. Twenty student participated in this competition.

In this competition, Kumari Dehadra Dipti Danyashwar (Ty. BSc) got first rank, Kumar Khambhat Ashish Umesh (Ty BSc) got second rank, Kumar Tupke Shubham Balasabeb (Ty BSc) got third rank. Certificate distribution of this competition was done on 4<sup>th</sup>



March 2019 by principal Dr. Onkar Rasal in Department of Chemistry.

Through this competition, the students got a new platform to show their knowledge & children developed interest in reading.

**HEAD**

Department of Chemistry  
PMT'S Arts Commerce & Science  
College, Shevgaon, Dist. A'Nagar



**Principal**

Arts, Comm. & Sci. College  
Shevgaon, Dist. Ahmednagar

Pravara Medical Trust's  
**Arts, Commerce and Science College, Shevgaon.**  
Tal – Shevgaon, Dist – Ahmednagar 414502.  
**Graduate Department of Chemistry**  
**Quiz Competition**  
**2018-19**  
**Photo**



*[Handwritten Signature]*

**HEAD**  
Department of Chemistry  
PMT'S Arts Commerce & Science  
College, Shevgaon, Dist. ANagar



*[Handwritten Signature]*  
**Principal**

**Arts, Comm. & Sci. College**  
Shevgaon, Dist. Ahmednagar





Pravara Medical Trust's

## Arts, Commerce and Science College Shevgaon

Ayurved College Campus, Tal- Shevgaon, Dist- Ahmednagar.

Department of Chemistry

Organized

“Quiz Competition-2019”

**CERTIFICATE**

This is to certify that Mr. /Miss. /Mrs. \_\_\_\_\_ Student of \_\_\_\_\_ has participated in “Quiz Competition” Conducted by Department of Chemistry in occasions of National Science day 28<sup>th</sup> February 2019 with \_\_\_\_\_ Grade.

Quiz Co-ordinator

Head of Department

Principal