

Date: - 13/02/2023

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 under graduate and post graduate Students.

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

Thanking You!



*Pravara Medical Trust's*  
Principal  
Arts, Comm. & Sci. College  
Shevgaon, Dist Ahmednagar

Pravara Medical Trust's  
**Arts, Commerce and Sciences College, Shevgaon**  
Tal- Shevgaon, Dist - Ahmednagar  
**Department of Chemistry**

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Date: - 14/02/2023

**Student Notices**

All the student of the BSc and MSc are hereby informed that, the Department of chemistry of our college is organized by the Quiz competition on 28 Feb 2023. At 10:00 am.

Interested Students should register their names with Prof. DahifaleM.B madam by 15/02/2023 to 22/02/2023.

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

Pravara Medical Trust's  
**Arts, Commerce & Science College, Shevgaon**

TAL-SHEVGAON, DIST-AHMEDNAGAR -414502

Department of Chemistry

Quiz Competition

2022-23

Sr. No.	Name of Student	Class	Sign
1]	Bozude Jagdish Suresh	TY BSc	Jagdish
2]	Chatare Shejal Abil	TY BSc	Chatare
3]	Fulmali Akash Anna	TY BSc	Akash
4]	Gorje Sunil Nandkumar	TY BSc	Gorje
5]	Gaikwad Anshuman Himmat	TY BSc	Anshuman
6]	Chaudhari Vishal Neharabhai	MSc-I	Chaudhari
7]	Saltale Akshay Ramesh	MSc-I	Akshay
8]	Lakade Omkar Kishor	MSc-I	Omkar
9]	Kote Amol Parvabhai	MSc-I	Amol
10]	Aher Vaishali Sudhakar	MSc-I	Aher
11]	Gadhe Dn Yashwari Anil	MSc-I	Gadhe
12]	Potabhai Vaish Samant	MSc-I	Potabhai
13]	Sabale Pushikesh Vishnu	MSc-I	Pushi
14]	Jakade Vishal Vasant	MSc-I	Jakade
15]	Kolhe Jyoti Bhagwan	MSc-I	Kolhe
16]	Paradhe Sunil Ramkisan	MSc-I	Paradhe
17]	Bhise Trupti Bagwan	MSc-I	Bhise
18]	Eksinge Rutuja Gohram	MSc-I	Eksinge
19]	Jadhav Aditya Sanjay	MSc-I	Aditya
20]	Wable Arinash Laxan	MSc-I	Wable
21]	Ware Om Sundar	TY BSc	Ware
22]	Londe Pushikesh Hariprasad	MSc-I	Londe
23]	Sable Bholeshwar Shivani	MSc-I	Sable
24]	Upadye Sakshi Sanjay	TY BSc	Sakshi
25]	Mundada Bhakti Omprakash	TY BSc	Mundada

*[Signature]*  
**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 2022-23

**Time – 1 Hour**

**Marks: - 100**

**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 atomic number of hydrogen?

- A) 0      B) 1  
C) 2      D) 3

2. The chemical formula of water is:

- A) H<sub>2</sub>O    B) H<sub>2</sub>O<sub>2</sub>  
C) H<sub>2</sub>      D) O<sub>2</sub>

3. Which of the following is the most abundant element in the Earth's crust?

- A) Oxygen      B) Silicon  
C) Aluminum    D) Iron

4. The pH value of pure water is:

- A) 7    B) 5  
C) 10    D) 3

5. What is the chemical symbol for gold?

- A) Au    B) Ag  
C) Ga    D) Ge

6. Which of the following is a noble gas?

- A) Oxygen    B) Nitrogen  
C) Neon      D) Hydrogen



7. Who is considered the father of modern chemistry?  
A) Albert Einstein    B) Marie Curie  
C) Antoine Lavoisier    D) Dmitri Mendeleev
8. What is the molar mass of carbon dioxide (CO<sub>2</sub>)?  
A) 22 g/mol    B) 44 g/mol  
C) 66 g/mol    D) 88 g/mol
9. Which of the following is a non-metal?  
A) Iron    B) Carbon  
C) Copper    D) Sodium
10. What type of bond is formed between two chlorine atoms in Cl<sub>2</sub>?  
A) Ionic bond    B) Covalent bond  
C) Metallic bond    D) Hydrogen bond
11. What is the symbol of sodium?  
A) S    B) Na  
C) Sn    D) N
12. Which substance is an example of an acid?  
A) NaOH    B) H<sub>2</sub>SO<sub>4</sub>  
C) NaCl    D) H<sub>2</sub>O
13. What is the product when sodium reacts with water?  
A) Sodium hydroxide and hydrogen    B) Sodium oxide and oxygen  
C) Sodium sulfate    D) Sodium chloride
14. Which of these elements is liquid at room temperature?  
A) Mercury    B) Chlorine  
C) Nitrogen    D) Helium
15. The noble gases are found in which group of the periodic table?  
A) Group 1    B) Group 17  
C) Group 18    D) Group 2
16. Which of the following is a physical change?  
A) Burning of wood    B) Dissolving salt in water  
C) Iron rusting    D) Cooking an egg

17. What is the main component of natural gas?  
A) Methane            B) Ethylene  
C) Propane            D) Butane
18. What does the law of conservation of mass state?  
A) Mass can be created                            B) Mass can be destroyed  
C) Mass is conserved in a chemical reaction    D) Mass is the same as weight
19. Which element is represented by the symbol 'Fe'?  
A) Fluorine            B) Flerovium  
C) Iron                 D) Francium
20. What is the molecular formula for methane?  
A) CH                 B) CH<sub>4</sub>  
C) C<sub>2</sub>H<sub>6</sub>             D) C<sub>6</sub>H<sub>12</sub>
21. Which of the following is a strong acid?  
A) HCl                B) H<sub>2</sub>O  
C) NaOH             D) NH<sub>3</sub>
22. Which element has the atomic number 6?  
A) Nitrogen          B) Oxygen  
C) Carbon            D) Hydrogen
23. What is the oxidation state of sulfur in H<sub>2</sub>SO<sub>4</sub>?  
A) +4                 B) +2  
C) -2                 D) +6
24. The atomic mass unit (amu) is based on the mass of which element?  
A) Carbon            B) Hydrogen  
C) Oxygen            D) Nitrogen
25. Which type of radiation is emitted during radioactive decay?  
A) Alpha radiation                            B) Beta radiation  
C) Gamma radiation                         D) All of the above
26. The boiling point of water is:  
A) 100°C            B) 0°C  
C) 50°C             D) 25°C

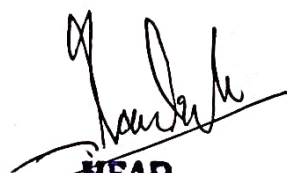
27. What is the chemical formula for methane gas?  
A)  $\text{CH}_4$       B)  $\text{CH}_3$   
C)  $\text{C}_6\text{H}_6$       D)  $\text{C}_2\text{H}_6$
28. Which of the following is an example of an exothermic reaction?  
A) Melting ice      B) Boiling water  
C) Combustion of fuels      D) Dissolving salt in water
29. The reaction of an acid with a base is called:  
A) Decomposition      B) Neutralization  
C) Combustion      D) Oxidation
30. What is the atomic number of nitrogen?  
A) 7      B) 6  
C) 8      D) 5
31. Which substance is an example of a base?  
A)  $\text{H}_2\text{SO}_4$       B)  $\text{NaOH}$   
C)  $\text{HCl}$       D)  $\text{NH}_3$
32. Which of the following is not a compound?  
A) Water      B) Oxygen  
C) Carbon dioxide      D) Ammonia
33. Which type of bond involves the transfer of electrons?  
A) Ionic bond      B) Covalent bond  
C) Hydrogen bond      D) Metallic bond
34. Who developed the periodic table?  
A) Albert Einstein      B) Marie Curie  
C) Dmitri Mendeleev      D) Ernest Rutherford
35. Which of the following is a characteristic of a chemical change?  
A) Change in state      B) Formation of a new substance  
C) Change in color      D) Melting of ice
36. Which molecule contains a triple bond?  
A)  $\text{N}_2$       B)  $\text{O}_2$   
C)  $\text{CO}_2$       D)  $\text{H}_2\text{O}$

37. What is the main product of the electrolysis of water?  
A) Hydrogen and oxygen                      B) Sodium and chlorine  
C) Nitrogen and oxygen                      D) Carbon and oxygen
38. What does Avogadro's law state?  
A) Volume is inversely proportional to pressure  
B) Volume is directly proportional to temperature  
C) Equal volumes of gases at the same temperature and pressure contain the same number of molecules  
D) Mass is conserved in chemical reactions
39. Which of the following gases is most abundant in Earth's atmosphere?  
A) Oxygen                      B) Nitrogen  
C) Carbon dioxide              D) Argon
40. What is the main gas involved in the greenhouse effect?  
A) Oxygen              B) Carbon dioxide  
C) Nitrogen              D) Methane
41. Which of the following is an example of an organic compound?  
A) Sodium chloride              B) Methane  
C) Potassium hydroxide              D) Iron oxide
42. The electron cloud of an atom is divided into energy levels or:  
A) Protons              B) Neutrons  
C) Orbitals              D) Neurons
43. What type of reaction is  $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$ ?  
A) Decomposition              B) Synthesis  
C) Combustion              D) Single displacement
44. The first shell of an atom can hold a maximum of how many electrons?  
A) 2              B) 4  
C) 8              D) 10
45. Which of the following is a homogeneous mixture?  
A) Oil and water              B) Saltwater  
C) Sand and water              D) Salad

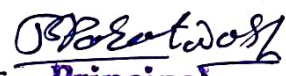


46. The process of converting a solid directly into a gas is called:  
A) Evaporation                      B) Sublimation  
C) Condensation                      D) Freezing
47. Which of the following is a common use of helium?  
A) Filling balloons                      B) Fuel in rockets  
C) Refrigeration in cars                      D) Air conditioning
48. What is the symbol of the element with atomic number 15?  
A) P                      B) S  
C) Si                      D) Mg
49. What is the correct formula for sulfur hexafluoride?  
A) SF<sub>4</sub>                      B) SF<sub>6</sub>  
C) S<sub>2</sub>F<sub>6</sub>                      D) SF<sub>2</sub>
50. Which element is found in all organic compounds?  
A) Nitrogen                      B) Oxygen  
C) Carbon                      D) Hydrogen.

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

Pravara Medical Trust's  
**Arts, Commerce and Science College, Shevgaon.**  
Tal – Shevgaon, Dist – Ahmednagar 414502.  
**Department of Chemistry**  
Organized  
Quiz Competition 2022- 2023  
Report

**Date:** 28<sup>th</sup> February 2023

**Organized by:** Department of Chemistry

**Participants:** Graduate and Postgraduate Student of Chemistry

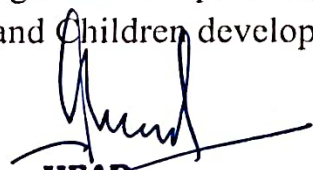
**Objective:** To Provide Student information about the Quiz Competition objective for understanding the through this competition, students have received a new platform to showcase their knowledge , and their reading skill have improved.

Pravara Medical Trust's, Arts Commerce and Science College Shevgaon Department of Chemistry organized Quiz Competition for students. This competition was organized on 28<sup>th</sup> February 2023 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.

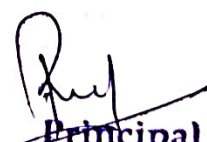
The organizer of this competition was Prof. Inamdar K.B. Head of Department of Chemistry. The competition was kept as 30 marks in MCQ pattern. Twenty students participated in this competition.

In this competition, Kumari Munadada Bhakti Omprakash (T.Y.B.Sc) got first rank, Kumar Wable Avinash ( M.Sc –II Org) got second rank and Kumari Lande Rushikesh Hariprasad (M.Sc-II Ana) got third rank. Certificate distribution of this competition was done on 3<sup>th</sup> March 2023 by Principal Dr. Onkar Rasal in Department of Chemistry.

Through this competition, the students got a new plate form to show their knowledge and Children developed interest in reading.

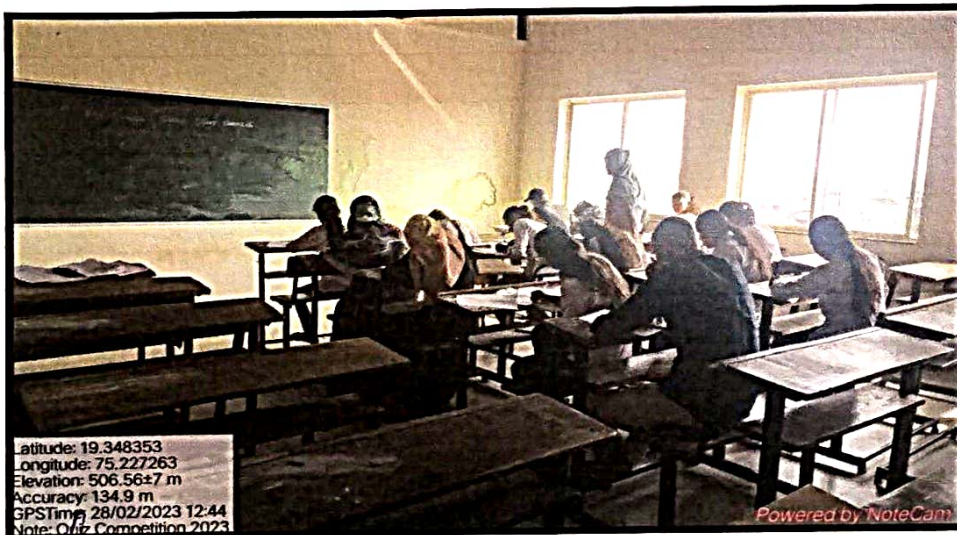
  
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PMT'S Arts Commerce & Science  
College, Shevgaon, Dist. A'Nagar



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



Pravara Medical Trust's  
**Arts, Commerce and Science College, Shevgaon.**  
Tal – Shevgaon, Dist – Ahmednagar 414502  
**Post Graduate Department of Chemistry**  
**Quiz Competition**  
**2022-23**  
**Photo**



**HEAD**  
Department of Chemistry  
Pravara Medical Trust's Arts Commerce & Science College, Shevgaon, Dist. Ahmednagar



**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.




## Quiz Competition 2023

Conducted by  
**Department of Chemistry**

Certificate

This is to certify that Mr./Ms./Mrs. \_\_\_\_\_ has actively participated in Department of Chemistry, Pravara Medical Trust's, Arts Commerce and Science College, Shevgaon organized National Science day QUIZ COMPETITION held on 28th February 2023 with \_\_\_\_\_ Grade. His / Her participation is immensely appreciated.

  
Quiz Co-coordinator

  
Head of Department

  
Principal

