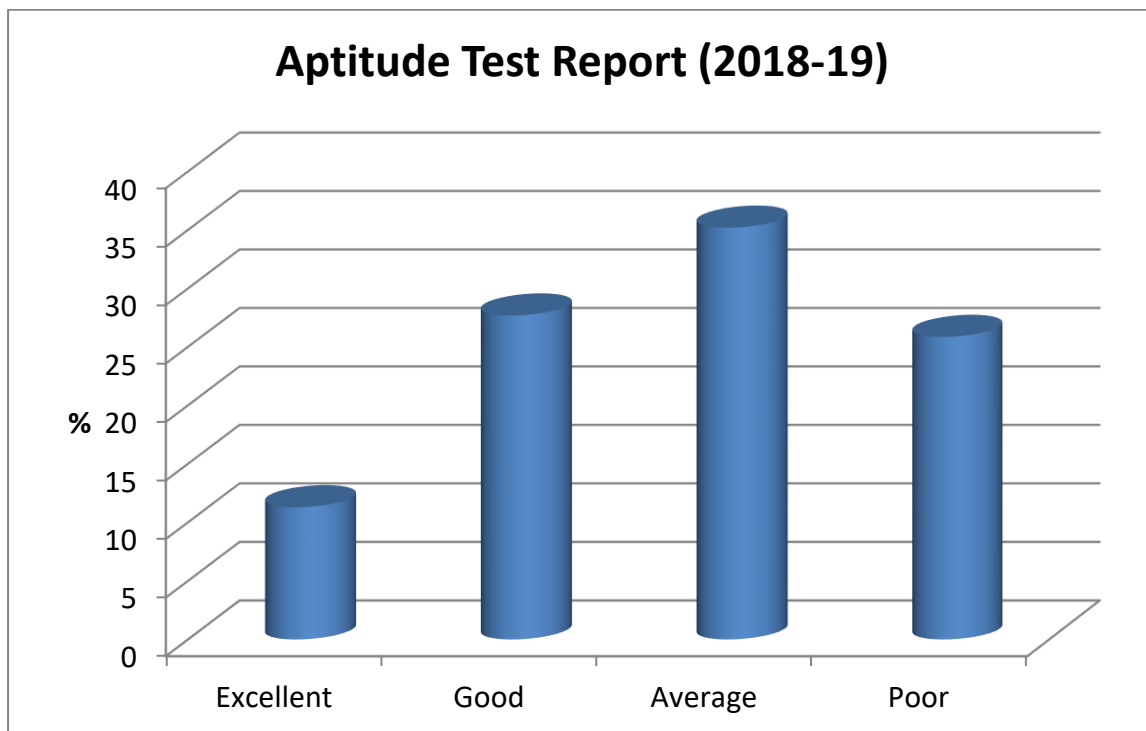


Dr. Ambedkar College, Deekshabhoomi, Nagpur
Department of Chemistry

Report of Aptitude Test

Date : 20th August 2018

The Department of Chemistry organised Aptitude test for B.Sc. SEM-I students on 20th August 2018. This aptitude test is a type of assessment that evaluates the student's talent/ability/potential to perform a basic knowledge of chemistry. Objective type questionnaire is designed based on 11th and 12th standard syllabus of chemistry. Aptitude Test results are divided in to four categories as Excellent, Good, Average and Poor. Department use aptitude test results to provide extra attentions towards average and poor category students. The aptitude test was conducted and evaluated by Prof. N. G. Telkapalliwar, Dr. V. M. Shivankar and Dr. Mrs. D. M. Borikar, Teacher In-charge of B.Sc, SEM-I.



Photographs during the Aptitude Test



Question Paper of Aptitude Test

DR. AMBEDKAR COLLEGE, DEEKSHABHOOMI, NAGPUR.
DEPARTMENT OF CHEMISTRY
APTITUDE TEST
(Academic Session-2018-19)

Name: _____ Class: _____ Batch: _____ Date: _____

- The mass less particles are
a) Alpha rays b) beta rays c) gamma rays d) protons
- The energy production into the sun and the stars is due to
a) Nuclear fission b) nuclear fusion c) thermo chemical reaction d) none of these
- The dipole moment is maximum for
a) HCl b) HBr c) HI d) HF
- The type of hybrid orbital used by boron in BF_3 are
a) Sp b) sp^2 c) sp^3d d) sp^3
- Which of the following products is not derived from cellulose?
a) Rayon b) Insulin c) Gun cotton d) paper
- A real gas most closely approaches the behaviour of a perfect gas under the conditions of
 a) high P and low T b) high P and high T c) low P and low T d) low P and high T
- The compressibility factor of ideal gas is
a) zero b) one c) infinity d) less than one
- The third law of thermodynamics stated that in the limit $T \rightarrow 0$
a) $G=0$ b) $H=0$ c) $U=0$ d) $S=0$
- For an adiabatic process
a) $T=\text{Constant}$ b) $q=0$ c) $q=\text{constant}$ d) $W=0$
- Isotonic solutions have
 a) the same freezint point b) the same boiling point c) the same surface tension
d) the same osmotic pressure
- the carbon atoms in a benzene ring are
a) sp hybridized b) sp^3 hybridized c) sp^2 hybridized d) none of these
- the pH of an aqueous solution of 10^{-8} M solution of HCl is
a) 8 b) Slightly less than 7 c) slightly greater than 7 d) 6

13. Electromagnetic radiation with minimum wavelength is
a) ultraviolet b) X-rays c) Infrared d) radiowaves
14. When the source emitting lines is placed in a strong magnetic field the spectral lines are split into its components, This effect is called
a) Compton effect b) Zeeman effect c) Rydberg effect d) Photoelectric effect
15. The degenerate orbitals have
 a) Equal energy b) same orientation in space c) same size d) all of the above
16. After filling the 4p orbitals, an electron will enter in
a) 4d b) 4f c) 5s d) 3d
17. _____ occupy the same place in the periodic table
a) Isobars b) isotopes c) isotones d) none of these
18. The atom of _____ contains no neutrons
 a) hydrogen b) deuterium c) tritium d) none of these
19. Which form of radioactivity is most penetrating?
a) alpha particles b) beta particles c) neutrons d) gamma rays
20. In N_2 molecule these are
a) one sigma and one pi bond b) two sigma and one pi bond
 c) one sigma and two pi bond d) three sigma bond
21. in sp^3 , sp^2 and sp hybridized carbon atom the p character is maximum in
 a) sp^3 b) sp^2 c) sp d) all have equal p character
22. Homolytic fission leading to the formation of
 a) free radical b) carbocation c) carbanion d) ions
23. The pH of neutral solution is
a) 5 b) 7 c) 8 d) 10
24. Maximum no. of electrons that a d-subshell contains are
a) 6 b) 2 c) 14 d) 10
25. In living system most of the Nitrogen is found in the form of
a) free nitrogen b) protein c) DNA d) urea

Student List with Marks

Dr. Ambedkar College, Deekshabhoomi, Nagpur

Department of Chemistry

Aptitude Test

Session: 2018-19

Class : B.Sc. SEM- I Date of Examination : 20th August 2018 Marks : 25

Name of Teacher Incharge: 1) N. G. Telkapaliwar N. G. Telkapaliwar

2) Dr. Mrs. D. M. Borikar D. M. Borikar

3) Dr. V. M. Shivankar V. M. Shivankar

Sr. No.	Name of Student	Signature	Marks Obtained	Remarks
1	Ambaish D. Dwivedi	<u>Ambaish</u>	12	
2	Aditya Zade	<u>Zade</u>	11	
3	Ritwik Ukey	<u>Ukey</u>	15	
4	Himanshu V. Sukhdeve	<u>Himanshu</u>	13	
5	Yamash S. Lihare	<u>Yamash Lihare</u>	18	
6	Harshal Bambole	<u>Harshal</u>	17	
7	Ravi More	<u>Ravi More</u>	16	
8	Vedant Gautam	<u>Vedant</u>	16	
9	Tarun Patil	<u>Tarun</u>	18	
10	Vijay P. Tandye	<u>Vijay P. Tandye</u>	12	
11	Thomson Janbhulkar	<u>Thomson</u>	17	
12	Sangharsh N. Ukey	<u>Sangharsh</u>	15	
13	Saurabh B. Meshram	<u>Saurabh</u>	09	
14	Mouli S. Gharat	<u>Mouli S. Gharat</u>	07	
15	Takir N. Sheikh	<u>Takir N. Sheikh</u>	13	
16	Nikhil Y. Boskus	<u>Nikhil</u>	09	
17	Shreyash A. More	<u>Shreyash</u>	12	
18	Abhinav Akash A. Mahfo	<u>Abhinav</u>	13	
19	Santosh R. Parate	<u>Santosh R. Parate</u>	16	
20	Ashutosh D. Ambade	<u>Ashutosh</u>	15	
21	Tanmay Deshmukh	<u>Tanmay</u>	12	

22.	VIVEK P. MESHARAM	Prink	14
23.	Samit R. Dhoke	Sr. Dhoke	09
24.	Shivam R. Narad	Narad	09
25.	Abhinav S. Chaulhali	Chaulhali	11
26.	Ashika A. Tambe	Ashika	07
27.	Supriya S. Patil	Patil	08
28.	Amushka Junde	Amushka	16
29.	Nancy Soni	Nancysoni	15
30.	Prasiddhi Thakre	Prasiddhi	10
31.	Anjali Patil	Anjali Patil	15
32.	Jayari Raut	Jayari	13
33.	Shetana P. Gautam	Gautam	18
34.	Prasiddhi Rautke	Prasiddhi	17
35.	Janiya Bose	Janiya	16
36.	Hitika Rathi	Hitika	18
37.	Ekta Wadibhasme	Ekta	16
348	Anchal Bandhe	Anchal Bandhe	18
39	Bhagyashree Dhuldhare	Bhagyashree	17
40.	Sonali G. Diyawale	Diyawale	17
41.	Sneha B. Sathare	Sathare	12
42.	Ankita Shemade	Ankita	16
43.	Vaibhavi B. Patil	Patil	10
44.	Sushma R. Gaiwad	Gaiwad	09
45.	Divya W. Bhagat	Bhagat	12
46.	Achit N. Chavhan	Chavhan	17
47.	Pooja Singh	Singh	17
48.	Shanjana S. Laddhad	Laddhad	17
49.	Manasi M. Sabne	Manasi Sabne	19
50.	Bhupali Kalita	Bhupali	18
51.	Pragati M. Mure	Pragati	22
52.	Vaishnavi Chauragade	Vaishnavi	18
53.	Aakansha R. Dandewar	A.R. Dandewar	13
54.	Pratiti R. Patil	Pratiti	10
55.	Sayali A. Gajbhiye	Gajbhiye	15
56.	Arya Malatani	Malatani	16
57.	Sheetal Gond	Sheetal	10

58	Deepak .A. Prayapati	Deepak	20	
59	Vivek R. Meshram	Vivek	18	
60	Pooche N. Raikumar	Pooche	10	
61	Achal M. Karmare	Achal Karmare	12	
62	Bhagyashri D. Dandekar	Bhagyashri D. Dandekar	15	
63	Prashya H. Telang	Prashya H. Telang	16	
64	Parikshit W. Ghorpde	—	16	
65	Shalab Tiwari	—	07	

Dr. Ambedkar College, Deekshabhoomi, Nagpur

Department of Chemistry

Aptitude Test

Session: 2018-19

Class : B.Sc. SEM- I Date of Examination : 20/08/2018 Marks : 25

Name of Teacher Incharge: 1) N. G. Telkapaliwar

2) Dr. Mrs. D. M. Borikar

3) Dr. V. M. Shivankar

[Signature]

[Signature]

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Sr. No.	Name of Student	Signature	Marks Obtained	Remarks
1)	Priyal Manoj Dhunde	<i>[Signature]</i>	17	
2)	Prajwal Ganvik	<i>[Signature]</i>	15	
3)	Vishal. S. Jadhav	<i>[Signature]</i>	15	
4)	Nikhil. D. Bhole	<i>[Signature]</i>	06	
5)	Dhampal. S. Wankar	<i>[Signature]</i>	05	
6)	AMAN. L. Gupta	<i>[Signature]</i>	14	
7)	rotayur. S. Timgude	<i>[Signature]</i>	17	
8)	Dwidhesh G. Kharikar	<i>[Signature]</i>	16	
9)	Archit. G. Tambhule	<i>[Signature]</i>	19	
10)	Priyash S. Bambal	<i>[Signature]</i>	13	
11)	Sudhanshu Gire	<i>[Signature]</i>	17	
12)	Dudhvik. Babade	<i>[Signature]</i>	16	
13)	Dhawal Shende	<i>[Signature]</i>	15	
14)	Sujay Meshram	<i>[Signature]</i>	15	
15)	Anam Sheware	<i>[Signature]</i>	15	
16)	Kanchan Shimpi	<i>[Signature]</i>	17	
17)	SHRUTI MATHRA	<i>[Signature]</i>	14	
18)	Purna. G. Dhule	<i>[Signature]</i>	07	
19)	Vaishnavi Bhangre	<i>[Signature]</i>	09	
20)	Minha S. Pathan	<i>[Signature]</i>	15	
21)	Akanksha S. Humane	<i>[Signature]</i>	13	

22)	Natasha Chowdhury	Natasha	17
21)	Mansi Narnaware	Mansi	20
22)	Sakshi Ghodke	Sakshi	11
23)	Sakshi Kalamkar	Sakshi	17
24)	Apeksha Hedao	Apeksha	17
25)	Sheeshti Maitra	Sheeshti	17
26)	Luagati Sharma	Luagati	10
27)	Ketki Narnaware	Ketki	11
28)	PRANJALI PATIL	Pranjali	12
29)	Khushboo Lantue	Khushboo	15
30)	Shekha Banalau	Shekha	11
31)	Ayushi Jambhulkar	Ayushi	12
32)	Aishwarya Sudhan	Aishwarya	16
33)	TANAYA MUDE	Tanaya	18
34)	Shreya Vikas Pande	Shreya	16
35)	Swalali P. Dighe	Swalali	18
36)	Aboli Jayawade	Aboli	12
37)	Geetanjali Mohod	Geetanjali	15
38)	Bhumnika Kanathe	Bhumnika	15
39)	Pranali Bhagat	Pranali	10
40)	Sidra Hussain	Sidra	16
41)	Sakshi Tekam	Sakshi	17
42)	Priya Vishwakarma	Priya	16
43)	Shrushti Matanghere	Shrushti	09
44)	Shrushali Kannak	Shrushali	06
45)	Sneha Waghmare	Sneha	12
46)	Dayshita Tumane	Dayshita	12
47)	Jehita Khillare	Jehita	20
48)	Bhagyashree K. Bawankule	Bhagyashree	20
49)	Ankita S. Thakre	Ankita	19
50)	Somiksha D. Wankar	Somiksha	19
51)	Shradha Ratnakar	Shradha	12
52)	Mahi Upades	Mahi	13
53)	Shrawnee Raut	Shrawnee	14
54)	Pallavi S. Bhadake	Pallavi	10
55)	Janhavi Bhyade	Janhavi	12

