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1. Introduction

1.1 Programme of Action (PoA), 1992 under the National Policy on Education (NPE), 1986 envisaged conduct of a common entrance examination on all India basis for admission to professional and technical programmes in the country. For admission to Engineering and Architecture/Planning programmes, Government of India vide Resolution dated 18th October 2001 has laid down a *Three – Exam Scheme* (JEE and AIEEE at the National Level and the State Level Engineering Entrance Examinations (SLEEE) for State Level Institutions – with an option to join AIEEE). This takes care of varying admission standards in these programmes and helps in maintenance of professional standards. This also solves problems of overlaps and reduces physical, mental and financial burden on students and their parents due to multiplicity of entrance examinations.

1.2 The sixth All India Engineering Entrance Examination (AIEEE) was held on 29th April, 2007. 5,99,096 candidates appeared, out of 6,41,276 candidates registered, for the examination at 1047 centres located in 79 cities. Approximately, 13653 seats in various institutions, namely National Institutes of Technology, Deemed Universities, Technical Institutions and other Govt. funded Institutions were offered through this examination. A centralized counselling had been organized for filling up the All India seats.

The States/Institutes listed below used AIEEE-2007 ranks to fill seats through their own counselling:-

West Bengal, Himachal Pradesh, Haryana, Uttarakhand, Punjab University, Chandigarh, Punjab Engineering College, Chandigarh, Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar, Army Institute of Technology, Pune, 15% all India quota for D C E/N.S.I.T, Delhi under Delhi University.

1.3 Keeping in view greater variety of subjects offered by different School Boards at the 10+2 (Class – XII) level, more subject combinations in qualifying examination (10+2) would now be possible. **For the convenience of candidates, provision for on-line submission of Application Form has also been made.**

1.4 This year many other institutions are expected to admit students through AIEEE. A tentative list of institutions and States/UTs likely to admit students on the basis of AIEEE-2008 is given in **Appendix-I**. Final list of institutions admitting students through AIEEE-2008 would be contained in the Information Brochure for Counselling and released on AIEEE website in due course. A list of nomenclature of courses approved by AICTE at

the undergraduate level in Engineering and Architecture/ Planning is given in **Appendix-II**.

1.5. Short Title

These rules will be called as All India Engineering/ Architecture Entrance Examination (AIEEE) rules.

1.6 Definitions

- i) **“Government”** means “Government of India”.
- ii) **“Ministry”** means “Ministry of Human Resource Development, New Delhi”.
- iii) **“Board”** means “Central Board of Secondary Education, Delhi”.
- iv) **“AIEEE”** means “All India Engineering/Architecture Entrance Examination”.
- v) **“Qualifying Examination”** means “Examination on the result of which the candidate becomes eligible to apply for admission to All India Engineering/ Architecture Entrance Examination”.
- vi) **“Rules”** means “The rules specified by the Central Board of Secondary Education for the conduct of AIEEE under the directive of Ministry of Human Resource Development, Govt. of India, New Delhi”.
- vii) **“Scheduled Castes”** means “Scheduled Castes as specified and laid down by the Government of India”.
- viii) **“Scheduled Tribes”** means “Scheduled Tribes as specified and laid down by the Government of India”.
- ix) **“Other Backward Classes(OBCs)”** means “Other Backward Classes as specified and laid down by the Government of India or by the respective States/UTs as the case may be”.
- x) **“Physically Handicapped”** means **“Physically Handicapped person as specified and laid down by the Government of India or the respective States/UTs, as the case may be”**.
- xi) **“AICTE”** means “All India Council for Technical Education, New Delhi”.

2. Scheme of Examination

2.1 Entrance examination would consist of two papers i.e. 1st paper consisting of three parts of Physics, Chemistry and Mathematics of equal weightage with objective type questions for B.E/B.Tech courses and 2nd paper – consisting of Mathematics, Aptitude Test and Drawing for B. Architecture and B. Planning. The Aptitude Test is designed to evaluate candidate’s perception, imagination, observation, creativity and architectural awareness.

2.2 Scoring and Negative Marking

There will be objective type questions with four options having single correct answer. For each incorrect response, one third of the total marks allotted to the question would be deducted. No deduction from the total score will, however, be made if no response is indicated for an item in the answer sheet. The candidates are advised not to attempt such item in the answer sheet if they are not sure of the correct response. **More than one answer indicated against a question will be deemed as incorrect response and will be negatively marked.** All objective type questions are required to be answered on specially designed machine gradable answer sheets. Answers are to be marked using ball point pen (black/blue) only. For the purpose of evaluation, Test Booklet Code as printed in the Answer Sheet on Side-2 will be accepted as final.

2.3 Subject combination for each paper and type of questions in each paper are given in the table below:

	SUBJECTS	TYPE OF QUESTIONS
Paper 1	Physics, Chemistry & Mathematics	Objective type questions with equal weightage to Physics, Chemistry & Mathematics
Paper 2	Mathematics – Part I Aptitude Test – Part II & Drawing Test – Part III	Objective type questions Objective type questions Two questions to test drawing aptitude

2.4 Requirement of papers for different courses is given in the table below:

COURSE	PAPERS
B.E/B.TECH	Paper –1
B.ARCH/B. PLANNING	Paper –2

3. Schedule of Examination

3.1 AIEEE will be conducted on the following dates as per schedule given below:

Dates of Examination	Paper	Subjects	Timings	Duration
27.04.2008	Paper 1	Physics, Chemistry & Mathematics	0930-1230 Hours	3 Hours
27.04.2008	Paper 2	Mathematics – Part I Aptitude Test – Part II & Drawing Test – Part III	1400-1700 Hours	3 Hours

3.2 For those unable to appear in AIEEE on scheduled date of examination for any reason, **including loss of application form/admit card in transit**, no re-examination shall be held under any circumstances. The schedule will remain unaltered even if the date is declared as a public holiday.

3.3 Students may move to the venue of examination if they have applied for B. Arch/B. Planning

4. Syllabus

The question papers for the Examination shall be based on a common minimum syllabus drawn from syllabi taught in different State Boards. This is given at **Appendix III**.

5. Language of the Question Papers

Candidates can opt for question papers either in English or in Hindi. The option has to be exercised while filling Application Form. It cannot be changed later.

6. Eligibility Criteria : Candidates are, however, required to appear in the papers as per Scheme of Examination for AIEEE specified in para 2.4 of this Bulletin.

6.1 The minimum academic qualification for admission through AIEEE is a pass in the final examination of 10+2 (Class XII) or its equivalent referred to as the qualifying examination (**see Appendix –VIII**). Those appearing in 10+2 (Class XII) final or equivalent examination may also appear in AIEEE for consideration of provisional admission.

6.2 Subject combinations required in the qualifying examination for admission to B.E./B.Tech. and B. Arch./B. Planning Courses shall be as under:

Course	Compulsory	Anyone of the Optional Subjects
B.E./B.TECH*	Physics & Mathematics	Chemistry, Bio-technology Computer Science Biology
B.ARCH/B. PLANNING**	Mathematics with 50% marks in aggregate at 10 + 2 level	

* This is as per decision of the All India Council for Technical Education (AICTE).

** Provisionally as per the orders of the Hon'ble High Court of Delhi and directive received from the Ministry of Human Resource Development.

6.3 The number of attempts which a candidate can avail at All Indian Engineering/Architecture Entrance Examination shall be limited to 03 (three) uniformly for all the candidates in consecutive years.

One Time Exemption : Candidates who have already availed three attempts or more will be permitted to appear in All India Engineering / Architecture Examination 2008 as a last chance.

6.4 Only Indian nationals are eligible.

6.5 Admission of students for foreign nationals, persons of Indian origin and Indian nationals living abroad, in centrally funded institutions, i.e National Institute of Technology (NITs), Indian Institute of Information Technology (IIIT), Allahabad, Atal Bihari Vajpayee Indian Institute of Information Technology and Management (ABVIITM), Gwalior, National Institute of Foundry and Forge Technology(NIFFT), Ranchi, North Eastern Regional Institute of Science and Technology (NERIST), Itanagar and Sant Longowal Institute of Engineering and Technology(SLIET), Longowal shall be as per Ministry of Human Resource Development's letter No.F.21-2/2001-TS.I dated 14.05.2001. Educational Consultants India Limited is the coordinating agency and single window facility for admission under this scheme. For details, please contact the Programme Officer, Educational Consultants India Limited, EDCIL House, .18 A, Sector 16 A, Noida-201301 (Uttar Pradesh) Telephone : 0091 - 0120 - 2512001 to 2512006, Fax No. 0091 - 0120 – 2515372 E. Mail – placement @ edcil.co.in

7. Date of Birth

Only those candidates whose date of birth falls on or after October 01, 1983 are eligible. However, in the case of Scheduled Caste (SC), Scheduled Tribe (ST) and Physically Handicapped (PH) candidates, upper age limit is relaxed by 5 years, i.e. SC, ST and PH candidates who were born on or after October 01, 1978 are eligible. Date of birth as recorded in the Secondary Education Board/University certificate only will be taken as authentic.

8. Application Procedure

8.1 Application can either be made '**Online**' or submitted on prescribed Application Form only.

8.2 Information Bulletin containing Application Form can obtain **by post** from the Assistant Secretary (AIEEE), Central Board of Secondary Education, PS 1-2, Institutional Area, IP Extension, Patparganj, Delhi - 110092 or **personally from Regional Offices of CBSE and Designated Branches of Syndicate Bank/other Banks/Designated Institutions (List given in Appendix IV). The Syndicate Bank/other Banks, the designated institutions and Regional Offices of the CBSE will not send the Information Bulletin by Post. Hence, no request should be made to them for sending the Bulletin by Post. Candidate should not buy the Information Bulletin from any private publisher/vendor as these may be fake Information Bulletins.**

The Regional Offices of CBSE, designated branches of Syndicate Banks/Other Banks/designated Institutions (**see list given in Appendix-IV**) are not responsible for any consequences, that may arise due to non-availability of forms in case the copies of application forms are sold out before the last date. The candidate should get the Information Bulletin containing application forms from the Assistant Secretary (AIEEE), CBSE, PS 1-2 Institutional Area, IP Extension, Patparganj, New Delhi-110 092 by post.

8.3 The cost of Information Bulletin inclusive of examination fee for BE/B.Tech only or B.Arch/B.Planning only is Rs. 300/-, & Rs. 150/- for General and SC/ST candidates respectively. **Candidates appearing for both BE/B.Tech and B.Arch/B.Planning together should send their application form along with additional fee in the form of Demand Draft of Rs. 200/- for General and Rs. 100/- for SC/ST candidates in favour of Secretary, CBSE payable at Delhi/New Delhi.**

For candidates opting examination centre in foreign country, the fees for appearing in BE/B Tech only or B Arch/B Planning only is Rs. 1000/- and Rs. 500/- for General and SC/ST candidates respectively. They should send additional fees @ Rs. 700/- for General Category & Rs. 350/- for SC & ST Category in the form of demand draft in favour of Secretary, C.B.S.E payable at Delhi/New Delhi. Those who want to appear both BE/B.Tech & B. Arch/B Planning together they should send their application form along with additional fee in the form of demand Draft of Rs. 1700/- for General and Rs. 850/- for SC/ST candidates in favour of Secretary, CBSE payable at Delhi/New Delhi.

8.4 To obtain Information Bulletin containing Application Form **by post**, candidates should send their request to the **Assistant Secretary (AIEEE), Central Board of Secondary Education, PS 1-2 Institutional Area, IP Extension, Patparganj, New Delhi-110092** along with a bank draft of Rs.350/- for General Category and Rs. 200/- for SC/ST candidates **in favour of The Secretary, CBSE, payable at Delhi/New Delhi** and a self-addressed envelope of 12" x 10". This includes Rs. 50/- towards postal charges.

8.5 For 'Online' submission at website www.aieee.nic.in

Online submission of application with photograph, signature and thumb impression of Left hand in the prescribed column on Computer Generated/Printed Form and down loaded from the website and to be sent by Registered/Speed Post (**NOT BY COURIER**) to CBSE and payment as per Clause 8.3 (including cost of bulletin, as the case may be) made by Demand Draft in favour of the **Secretary, CBSE, payable at Delhi/New Delhi.**

Candidates submitting applications 'Online' are required to retain a photocopy of each of the Computer Generated Application Form and the Demand Draft for future correspondence, if required.

8.6 In addition to Examination Fee, Service/Processing Charges of Rs. 5/- will be payable by the candidates to the designated Branches of Syndicate Bank/ Institutions.

8.7 Instructions for completing and sending the Application

Form by post are given in **Appendix V. Candidates are advised to go through the instructions carefully before filling up the application form.** Instructions for online submission of application will be given on AIEEE website www.aieee.nic.in

- Request for change/correction in any particulars in the Application Form shall not be entertained under any circumstances. **The Board will not be responsible for any consequences arising out of non-acceptance of any correction/addition/deletion in any particular once filled in the application form whatsoever the reasons may be.**
- Incomplete Application Forms, or the forms having over-writing, shall be rejected.
- The candidates who have made application online must submit Computer Generated Application Form along with Demand Draft of any scheduled Bank.

9. Examination Centres Cities

List of cities where the examination will be conducted is given in **Appendix VI.** Candidates are required to give three options convenient to them. While every effort will be made to allot a Centre in one of the places opted by the candidate, the Board reserves its discretion to allot a Centre other than that of candidate's choice any where in India. **Under no circumstances, the Centre once allotted shall be changed by the Board.**

10. Admit Card

The Admit Card will be sent by post "Under Certificate of Posting (UPC)" to the candidate (including those who made application online) about four weeks before the conduct of the examination, however, the Board will not be responsible for any consequences that may arise due to loss of admit card in transit. It will be the responsibility of the candidate to contact/write to the Board in case he/she is not in receipt of the Admit Cards by 10th April 2008. Such requests be sent to Assistant Secretary (AIEEE), Central Board of Secondary Education, PS 1-2 Institutional Area, IP Extension, Patparganj, Delhi-110 092 with two photographs (as passed on the Application Form), one should be attested by Principal of the institution where candidate is studying/passed XII or by the gazetted officer. Photocopy of the Application Form, proof regarding remittance of fee (photocopy of the Demand Draft) in respect of those candidates who have made application online, and the original postal receipt issued by the Post Office for having dispatched the Application Form by Registered/Speed Post in order to get a duplicate Admit Card. Such request for issue of duplicate Admit Card should accompany with a Demand Draft in favour of Secretary, CBSE payable at New Delhi amounting Rs.

50/- as fee and additional Rs. 30/- as postal charges for outstation candidates. **Request for issue of admit card after the examination will not be entertained.**

In no case the duplicate Admit Card would be issued at the Examination Centres.

11. Procedure for Conduct of Examination and Use of Answer Sheet

Procedure for conduct of examination and instructions for use of the Test Booklet and Answer Sheet are given in **Appendix VII**. Candidates are advised to go through carefully before going for the Examination.

12. Evaluation and Declaration of Results

12.1 On the basis of performance in AIEEE, separate rank lists will be prepared for B.E./B.Tech. and B.Arch/B.Planning. Score Card indicating All India Rank and State Rank with total marks and marks in each subject shall be sent to all candidates appearing in AIEEE.

12.2 Candidates scoring above a certain cut off percentage of marks (being different for General and SC/ST/PH category candidates) to be called for counselling shall be determined at the time of declaration of AIEEE results. Cut off percentage of marks for OBC shall be determined as and when government orders are issued for the same. All India Rank and marks shall also be released on AIEEE website. The results of AIEEE 2008 are likely to be declared on or before 7th June, 2008.

The score card will be dispatched to the candidates from 12.06.2008 to 28.06.2008 under Certificate of Posting (UPC). The Board will not be responsible for any consequences that may arise due to loss of score card in transit. In case of non-receipt of the score card within the stipulated period candidate may apply for duplicate score card on payment of Rs. 50/- (plus postal charges of Rs. 30/- for outstation candidates) in the form of Demand Draft in favour of Secretary, CBSE, payable at Delhi/New Delhi between 09.07.2008 to 30.08.2008. No request for issue of duplicate score card will be entertained thereafter.

12.3 As per the notified cut off score and the candidates declared eligible up to the notified Rank shall be called to appear for counselling.

12.4 In case of two or more candidates obtaining equal marks, inter-se merit of such candidates shall be determined as follows:

B.E/B.Tech - By marks obtained in Mathematics and then in Physics in the AIEEE and then by age (preference to older candidates).

B.Arch/B.Planning - By marks obtained in Aptitude Test and then in Mathematics in the AIEEE and then by age (preference to older candidates).

12.5 Rules for rechecking/re-evaluation of Answer Sheets : Since the AIEEE answer sheets are machine graded with extreme care and repeatedly scrutinized, there is no provision for rechecking/re-evaluation of answer sheets. No correspondence in this regard will be entertained.

13. Counselling, Seat Allocation, Document Verification and Admissions

13.1 Final list of institutions admitting students (with intake in each discipline and category as per reservation) through AIEEE-2008, including counselling procedure, counselling schedule and counselling centres would be contained in the Information Brochure for Counselling and it shall also be released on AIEEE website in May 2008.

13.2 The Central Counselling Board shall send by post the Information Brochure for Counselling only to the candidates to be called for counselling.

13.3 Verification of documents would be done at the time of counselling/admission. The purpose would be to verify different records regarding identification, age, qualifying examination, state of eligibility and category of the candidate. On failing to establish of any of the documents, the candidates will not be considered for admission.

13.4 SC, ST and PH candidates will be required to produce original certificate issued by the competent authority at the time of counselling, failing which they will not be considered for admission.

13.5 All correspondence regarding counselling and refund of the amount paid to the Central Counselling Board (CCB) or any of the participating institution should be made with the concerned authorities.

14. Legal Jurisdiction

All disputes pertaining to the conduct of AIEEE shall fall within the jurisdiction of Delhi only. The Secretary of the Board shall be the legal person in whose name the Board may sue or may be sued.

If any person or officer dealing with the conduct of AIEEE engages himself/herself in act(s) that would result in the leakage of the question paper(s) or attempt to use or help in the use of unfair means in this examination, he/she shall be liable to prosecution under the Indian Penal Code.

15. Rules of Reservation

Reservation for SC/ST and Physically Handicapped candidates will be applicable as per the Govt. of India/ State concerned existing rules or amended from time to time. However, reservation for OBC candidates, if any, would be communicated through newspaper/ advertisement/AIEEE website as and when Government orders for the same are issued.

Tentative List of Participating Institutions in AIEEE 2008

A. National Institutes of Technology (NIT)

1. National Institute of Technology (NIT), Agartala
2. Motilal Nehru National Institute of Technology, Allahabad (U.P.)
3. Maulana Azad National Institute of Technology, Bhopal (Madhya Pradesh)
4. National Institute of Technology, Calicut (Kerala)
5. National Institute of Technology, Durgapur (West Bengal)
6. National Institute of Technology, Hamirpur (Himachal Pradesh)
7. Malviya National Institute of Technology, Jaipur (Rajasthan)
8. Dr. B R Ambedkar National Institute of Technology, Jalandhar (Punjab)
9. National Institute of Technology, Jamshedpur (Jharkhand)
10. National Institute of Technology, Kurukshetra (Haryana)
11. Visvesvaraya National Institute of Technology, Nagpur (Maharashtra)
12. National Institute of Technology, Patna (Bihar)
13. National Institute of Technology, Rourkela (Orissa)
14. National Institute of Technology, Silchar (Assam)
15. National Institute of Technology, Hazratbal, Srinagar (J & K)
16. Sardar Vallabhbhai National Institute of Technology, Surat (Gujarat)
17. National Institute of Technology, Surathkal (Karnataka)
18. National Institute of Technology, Tiruchirapalli (Tamil Nadu)
19. National Institute of Technology, Warangal (Andhra Pradesh)
20. National Institute of Technology (NIT), Raipur (Chhattisgarh)

B. Indian Institutes of Information Technology (IIIT) and Indian Institute of Information Technology and Management (IIITM)

1. Indian Institute of Information Technology, Allahabad (U.P.)
2. Atal Bihari Vajpayee Indian Institute of Information Technology & Management, Gwalior (M.P.)
3. Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design & Manufacturing, Jabalpur (M.P.)
4. Indian Institute of Information Technology, Design & Manufacturing, Kanchipuram, Tamil Nadu

C. Self Financed Deemed Universities/University

1. International Institute of Information Technology, Hyderabad (A.P.)
2. Birla Institute of Technology, Mesra, Ranchi (Jharkhand)
3. Birla Institute of Technology, Patna (Bihar)
4. Shri Mata Vaishno Devi University, Gandhinagar, Jammu Tawi (J & K)
5. Kalinga Institute of Industrial Technology, Bhubhaneswar (Orissa)
6. The Shanmugha Arts, Science, Technology & Research Academy (Sastra), Thanjavur (Tamil Nadu)
7. The LNM Institute of Information Technology, Jaipur (Rajasthan)
8. Sri Chandrasekharendra Saraswati Viswa Mahavidyalaya, Kanchipuram (Tamil Nadu)
9. Dr. M.G.R. Educational and Research Institute, Chennai (Tamil Nadu)
10. Faculty of Engineering & Technology, Gurukul Kangri Vishwavidyalaya, Haridwar (Uttarakhand)

D. Other Central Government Funded Institutions

1. Indian Institute of Carpet Technology, Bhadohi (U.P.) (IICT, Bhadohi)
2. School of Planning and Architecture, I.P. Estate, New Delhi (SPA, Delhi).
3. National Institute of Foundry & Forge Technology, Ranchi (Jharkhand), (NIFFT, Ranch)
4. Assam University, Silchar (Assam)
5. J.K. Institute of Applied Physics & Technology, University of Allahabad, Allahabad- 211002 (U.P.)

E. States/UTs

The States/Institutes listed below are likely to use AIEEE-2008 ranks to fill seats through their own counselling.

1. Haryana
2. Uttarakhand
3. Himachal Pradesh (All India Quota will be filled through Central Counselling Board)
4. Army Institute of Technology, Pune, Maharashtra
5. Tezpur University, Napaam, Assam
6. 15% All India Quota in Delhi College of Engineering and N.S.I.T., Delhi under Delhi University will be filled through Central Counselling Board.

Final List of Institutions admitting students (with intake in each discipline and category as per reservation) through AIEEE-2008 for Counselling shall also be released on AIEEE website in the month of May 2008

Nomenclature of Disciplines in Degree Engineering & Technology/Architecture/ Town Planning(Aproved by AICTE)

A. ENGINEERING & TECHNOLOGY COURSES

1. Aeronautical Engineering
2. Agricultural Engineering
3. Automobile Engineering
4. Applied Electronic and Instrumentation
5. Automation and Robotics
6. Bio-Medical Engineering
7. Bio-Technology
8. Ceramic Engineering
9. Chemical Engineering
10. Civil Engineering
11. Computer Science and Engineering
12. Electrical Engineering
13. Electronics and Communication Engineering
14. Environmental Engineering
15. Food Technology
16. Industrial Engineering and Management
17. Information Technology
18. Instrumentation and Control Engineering
19. Leather Technology
20. Marine Engineering
21. Materials Science & Technology
22. Metallurgical Engineering
23. Mechanical Engineering
24. Mining Engineering
25. Oil & Paint Technology
26. Polymer Science and Rubber Technology
27. Printing Technology
28. Production Engineering
29. Pulp & Paper Technology
30. Sugar Technology
31. Textile Engineering & Technology
32. Transportation Engineering

B. ARCHITECTURE & TOWN PLANNING

1. Architecture
2. Building Construction Technology
3. Interior Design
4. Planning

SYLLABUS

MATHEMATICS

UNIT 1 : SETS, RELATIONS AND FUNCTIONS:

Sets and their representation; Union, intersection and complement of sets and their algebraic properties; Power set; Relation, Types of relations, equivalence relations, functions; one-one, into and onto functions, composition of functions.

UNIT 2 : COMPLEX NUMBERS AND QUADRATIC EQUATIONS:

Complex numbers as ordered pairs of reals, Representation of complex numbers in the form $a+ib$ and their representation in a plane, Argand diagram, algebra of complex numbers, modulus and argument (or amplitude) of a complex number, square root of a complex number, triangle inequality, Quadratic equations in real and complex number system and their solutions. Relation between roots and co-efficients, nature of roots, formation of quadratic equations with given roots.

UNIT 3 : MATRICES AND DETERMINANTS:

Matrices, algebra of matrices, types of matrices, determinants and matrices of order two and three. Properties of determinants, evaluation of determinants, area of triangles using determinants. Adjoint and evaluation of inverse of a square matrix using determinants and elementary transformations, Test of consistency and solution of simultaneous linear equations in two or three variables using determinants and matrices.

UNIT 4 : PERMUTATIONS AND COMBINATIONS:

Fundamental principle of counting, permutation as an arrangement and combination as selection, Meaning of $P(n,r)$ and $C(n,r)$, simple applications.

UNIT 5 : MATHEMATICAL INDUCTION:

Principle of Mathematical Induction and its simple applications.

UNIT 6 : BINOMIAL THEOREM AND ITS SIMPLE APPLICATIONS:

Binomial theorem for a positive integral index, general term and middle term, properties of Binomial coefficients and simple applications.

UNIT 7 : SEQUENCES AND SERIES:

Arithmetic and Geometric progressions, insertion of arithmetic, geometric means between two given numbers. Relation between

A.M. and G.M. Sum upto n terms of special series: S_n , S_n^2 , S_n^3 . Arithmetico - Geometric progression.

UNIT 8 : LIMIT, CONTINUITY AND DIFFERENTIABILITY:

Real - valued functions, algebra of functions, polynomials, rational, trigonometric, logarithmic and exponential functions, inverse functions. Graphs of simple functions. Limits, continuity and differentiability. Differentiation of the sum, difference, product and quotient of two functions. Differentiation of trigonometric, inverse trigonometric, logarithmic, exponential, composite and implicit functions; derivatives of order upto two. Rolle's and Lagrange's Mean Value Theorems. Applications of derivatives: Rate of change of quantities, monotonic - increasing and decreasing functions, Maxima and minima of functions of one variable, tangents and normals.

UNIT 9 : INTEGRAL CALCULUS:

Integral as an anti - derivative. Fundamental integrals involving algebraic, trigonometric, exponential and logarithmic functions. Integration by substitution, by parts and by partial fractions. Integration using trigonometric identities.

Evaluation of simple integrals of the type

$$\int \frac{dx}{x^2 \pm a^2}, \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{a^2 - x^2}, \int \frac{dx}{\sqrt{a^2 - x^2}}, \int \frac{dx}{ax^2 + bx + c}$$

$$\int \frac{dx}{\sqrt{ax^2 + bx + c}}, \int \frac{(px+q)dx}{ax^2 + bx + c}, \int \frac{(px+q)dx}{\sqrt{ax^2 + bx + c}}$$

$$\int \sqrt{a^2 \pm x^2} dx, \int \sqrt{x^2 - a^2} dx$$

Integral as limit of a sum. Fundamental Theorem of Calculus. Properties of definite integrals. Evaluation of definite integrals, determining areas of the regions bounded by simple curves in standard form.

UNIT 10 : DIFFERENTIAL EQUATIONS:

Ordinary differential equations, their order and degree. Formation of differential equations. Solution of differential equations by the method of separation of variables, solution of homogeneous and linear differential equations of the type:

$$\frac{dy}{dx} + p(x)y = q(x)$$

UNIT 11 : CO-ORDINATE GEOMETRY:

Cartesian system of rectangular co-ordinates

in a plane, distance formula, section formula, locus and its equation, translation of axes, slope of a line, parallel and perpendicular lines, intercepts of a line on the coordinate axes.

Straight lines

Various forms of equations of a line, intersection of lines, angles between two lines, conditions for concurrence of three lines, distance of a point from a line, equations of internal and external bisectors of angles between two lines, coordinates of centroid, orthocentre and circumcentre of a triangle, equation of family of lines passing through the point of intersection of two lines.

Circles, conic sections

Standard form of equation of a circle, general form of the equation of a circle, its radius and centre, equation of a circle when the end points of a diameter are given, points of intersection of a line and a circle with the centre at the origin and condition for a line to be tangent to a circle, equation of the tangent. Sections of cones, equations of conic sections (parabola, ellipse and hyperbola) in standard forms, condition for $y = mx + c$ to be a tangent and point (s) of tangency.

UNIT 12: THREE DIMENSIONAL GEOMETRY:

Coordinates of a point in space, distance between two points, section formula, direction ratios and direction cosines, angle between two intersecting lines. Skew lines, the shortest distance between them and its equation. Equations of a line and a plane in different forms, intersection of a line and a plane, coplanar lines.

UNIT 13: VECTOR ALGEBRA:

Vectors and scalars, addition of vectors, components of a vector in two dimensions and three dimensional space, scalar and vector products, scalar and vector triple product.

UNIT 14: STATISTICS AND PROBABILITY:

Measures of Dispersion: Calculation of mean, median, mode of grouped and ungrouped data. Calculation of standard deviation, variance and mean deviation for grouped and ungrouped data.

Probability: Probability of an event, addition and multiplication theorems of probability, Baye's theorem, probability distribution of a random variate, Bernoulli trials and Binomial distribution.

UNIT 15: TRIGONOMETRY:

Trigonometrical identities and equations.

Trigonometrical functions. Inverse trigonometrical functions and their properties. Heights and Distances.

UNIT 16: MATHEMATICAL REASONING:

Statements, logical operations and, or, implies, implied by, if and only if. Understanding of tautology, contradiction, converse and contrapositive.

PHYSICS

The syllabus contains two Sections - A and B. Section - A pertains to the Theory Part having 80% weightage, while Section - B contains Practical Component (Experimental Skills) having 20% weightage.

SECTION - A

UNIT 1: PHYSICS AND MEASUREMENT

Physics, technology and society, S I units, Fundamental and derived units. Least count, accuracy and precision of measuring instruments, Errors in measurement, Significant figures. Dimensions of Physical quantities, dimensional analysis and its applications.

UNIT 2: KINEMATICS

Frame of reference. Motion in a straight line: Position-time graph, speed and velocity. Uniform and non-uniform motion, average speed and instantaneous velocity. Uniformly accelerated motion, velocity-time, position-time graphs, relations for uniformly accelerated motion.

Scalars and Vectors, Vector addition and Subtraction, Zero Vector, Scalar and Vector products, Unit Vector, Resolution of a Vector. Relative Velocity, Motion in a plane, Projectile Motion, Uniform Circular Motion.

UNIT 3: LAWS OF MOTION

Force and Inertia, Newton's First Law of motion; Momentum, Newton's Second Law of motion; Impulse; Newton's Third Law of motion. Law of conservation of linear momentum and its applications, Equilibrium of concurrent forces.

Static and Kinetic friction, laws of friction, rolling friction.

Dynamics of uniform circular motion: Centripetal force and its applications.

UNIT 4: WORK, ENERGY AND POWER

Work done by a constant force and a variable force; kinetic and potential energies, work-energy theorem, power.

Potential energy of a spring, conservation of mechanical energy, conservative and non-conservative forces; Elastic and inelastic collisions in one and two dimensions.

UNIT 5: ROTATIONAL MOTION

Centre of mass of a two-particle system, Centre of mass of a rigid body; Basic concepts of rotational motion; moment of a force, torque, angular momentum, conservation of angular momentum and its applications; moment of inertia, radius of gyration. Values of moments of inertia for simple geometrical objects, parallel and perpendicular axes theorems and their applications.

Rigid body rotation, equations of rotational motion.

UNIT 6: GRAVITATION

The universal law of gravitation.

Acceleration due to gravity and its variation with altitude and depth.

Kepler's laws of planetary motion.

Gravitational potential energy; gravitational potential.

Escape velocity. Orbital velocity of a satellite. Geo-stationary satellites.

UNIT 7: PROPERTIES OF SOLIDS AND LIQUIDS

Elastic behaviour, Stress-strain relationship, Hooke's Law, Young's modulus, bulk modulus, modulus of rigidity.

Pressure due to a fluid column; Pascal's law and its applications.

Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, Reynolds number. Bernoulli's principle and its applications.

Surface energy and surface tension, angle of contact, application of surface tension - drops, bubbles and capillary rise.

Heat, temperature, thermal expansion; specific heat capacity, calorimetry; change of state, latent heat.

Heat transfer-conduction, convection and radiation, Newton's law of cooling.

UNIT 8: THERMODYNAMICS

Thermal equilibrium, zeroth law of thermodynamics, concept of temperature. Heat, work and internal energy. First law of thermodynamics.

Second law of thermodynamics: reversible and irreversible processes. Carnot engine and its efficiency.

UNIT 9: KINETIC THEORY OF GASES

Equation of state of a perfect gas, work done on compressing a gas.

Kinetic theory of gases - assumptions, concept of pressure. Kinetic energy and temperature: rms speed of gas molecules; Degrees of freedom, Law of equipartition of energy, applications to specific heat capacities of gases; Mean free path, Avogadro's number.

UNIT 10: OSCILLATIONS AND WAVES

Periodic motion - period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M.) and its equation; phase; oscillations of a spring - restoring force and force constant; energy in S.H.M. - kinetic and potential energies; Simple pendulum - derivation of expression for its time period; Free, forced and damped oscillations, resonance.

Wave motion. Longitudinal and transverse waves, speed of a wave. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves, Standing waves in strings and organ pipes, fundamental mode and harmonics, Beats, Doppler effect in sound

UNIT 11: ELECTROSTATICS

Electric charges: Conservation of charge, Coulomb's law-forces between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.

Electric field: Electric field due to a point charge, Electric field lines, Electric dipole, Electric field due to a dipole, Torque on a dipole in a uniform electric field.

Electric flux, Gauss's law and its applications to find field due to infinitely long uniformly charged straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell.

Electric potential and its calculation for a point charge, electric dipole and system of charges; Equipotential surfaces, Electrical potential energy of a system of two point charges in an electrostatic field.

Conductors and insulators, Dielectrics and electric polarization, capacitor, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, Energy stored in a capacitor.

UNIT 12: CURRENT ELECTRICITY

Electric current, Drift velocity, Ohm's law,

Electrical resistance, Resistances of different materials, V-I characteristics of Ohmic and nonohmic conductors, Electrical energy and power, Electrical resistivity, Colour code for resistors; Series and parallel combinations of resistors; Temperature dependence of resistance.

Electric Cell and its Internal resistance, potential difference and emf of a cell, combination of cells in series and in parallel.

Kirchhoff's laws and their applications. Wheatstone bridge, Metre bridge.

Potentiometer - principle and its applications.

UNIT 13: MAGNETIC EFFECTS OF CURRENT AND MAGNETISM

Biot - Savart law and its application to current carrying circular loop.

Ampere's law and its applications to infinitely long current carrying straight wire and solenoid.

Force on a moving charge in uniform magnetic and electric fields. Cyclotron.

Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current-carrying conductors-definition of ampere. Torque experienced by a current loop in uniform magnetic field; Moving coil galvanometer, its current sensitivity and conversion to ammeter and voltmeter.

Current loop as a magnetic dipole and its magnetic dipole moment. Bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements. Para-, dia- and ferro- magnetic substances.

Magnetic susceptibility and permeability, Hysteresis, Electromagnets and permanent magnets.

UNIT 14: ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENTS

Electromagnetic induction; Faraday's law, induced emf and current; Lenz's Law, Eddy currents. Self and mutual inductance.

Alternating currents, peak and rms value of alternating current/ voltage; reactance and impedance; LCR series circuit, resonance; Quality factor, power in AC circuits, wattless current.

AC generator and transformer.

UNIT 15: ELECTROMAGNETIC WAVES

Electromagnetic waves and their characteristics. Transverse nature of electromagnetic waves.

Electromagnetic spectrum (radio waves,

microwaves, infrared, visible, ultraviolet, X-rays, gamma rays). Applications of e.m. waves.

UNIT 16: OPTICS

Reflection and refraction of light at plane and spherical surfaces, mirror formula, Total internal reflection and its applications, Deviation and Dispersion of light by a prism, Lens Formula, Magnification, Power of a Lens, Combination of thin lenses in contact, Microscope and Astronomical Telescope (reflecting and refracting) and their magnifying powers.

Wave optics: wavefront and Huygens' principle, Laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width, coherent sources and sustained interference of light. Diffraction due to a single slit, width of central maximum. Resolving power of microscopes and astronomical telescopes, Polarisation, plane polarized light; Brewster's law, uses of plane polarized light and Polaroids.

UNIT 17: DUAL NATURE OF MATTER AND RADIATION

Dual nature of radiation. Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation; particle nature of light. Matter waves-wave nature of particle, de Broglie relation. Davisson-Germer experiment.

UNIT 18: ATOMS AND NUCLEI

Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.

Composition and size of nucleus, atomic masses, isotopes, isobars; isotones. Radioactivity-alpha, beta and gamma particles/ rays and their properties; radioactive decay law. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number, nuclear fission and fusion.

UNIT 19: ELECTRONIC DEVICES

Semiconductors; semiconductor diode: I-V characteristics in forward and reverse bias; diode as a rectifier; I-V characteristics of LED, photodiode, solar cell and Zener diode; Zener diode as a voltage regulator. Junction transistor, transistor action, characteristics of a transistor; transistor as an amplifier (common emitter configuration) and oscillator. Logic gates (OR, AND, NOT, NAND and NOR). Transistor as a switch.

UNIT 20: COMMUNICATION SYSTEMS

Propagation of electromagnetic waves in the atmosphere; Sky and space wave propagation, Need for modulation, Amplitude and Frequency Modulation, Bandwidth of signals, Bandwidth of Transmission medium, Basic Elements of a Communication System (Block Diagram only).

SECTION –B

UNIT 21: EXPERIMENTAL SKILLS

Familiarity with the basic approach and observations of the experiments and activities:

1. Vernier callipers-its use to measure internal and external diameter and depth of a vessel.
2. Screw gauge-its use to determine thickness/diameter of thin sheet/wire.
3. Simple Pendulum-dissipation of energy by plotting a graph between square of amplitude and time.
4. Metre Scale - mass of a given object by principle of moments.
5. Young's modulus of elasticity of the material of a metallic wire.
6. Surface tension of water by capillary rise and effect of detergents.
7. Co-efficient of Viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.
8. Plotting a cooling curve for the relationship between the temperature of a hot body and time.
9. Speed of sound in air at room temperature using a resonance tube.
10. Specific heat capacity of a given (i) solid and (ii) liquid by method of mixtures.
11. Resistivity of the material of a given wire using metre bridge.
12. Resistance of a given wire using Ohm's law.
13. Potentiometer –
 - (i) Comparison of emf of two primary cells.
 - (ii) Determination of internal resistance of a cell.
14. Resistance and figure of merit of a galvanometer by half deflection method.
15. Focal length of:
 - (i) Convex mirror
 - (ii) Concave mirror, and
 - (iii) Convex lensusing parallax method.
16. Plot of angle of deviation vs angle of incidence for a triangular prism.
17. Refractive index of a glass slab using a travelling microscope.

18. Characteristic curves of a p-n junction diode in forward and reverse bias.
19. Characteristic curves of a Zener diode and finding reverse break down voltage.
20. Characteristic curves of a transistor and finding current gain and voltage gain.
21. Identification of Diode, LED, Transistor, IC, Resistor, Capacitor from mixed collection of such items.
22. Using multimeter to:
 - (i) Identify base of a transistor
 - (ii) Distinguish between npn and pnp type transistor
 - (iii) See the unidirectional flow of current in case of a diode and an LED.
 - (iv) Check the correctness or otherwise of a given electronic component (diode, transistor or IC).

SECTION: A

PHYSICAL CHEMISTRY

UNIT 1: SOME BASIC CONCEPTS IN CHEMISTRY

Matter and its nature, Dalton's atomic theory; Concept of atom, molecule, element and compound; Physical quantities and their measurements in Chemistry, precision and accuracy, significant figures, S.I. Units, dimensional analysis; Laws of chemical combination; Atomic and molecular masses, mole concept, molar mass, percentage composition, empirical and molecular formulae; Chemical equations and stoichiometry.

UNIT 2: STATES OF MATTER

Classification of matter into solid, liquid and gaseous states.

Gaseous State:

Measurable properties of gases; Gas laws - Boyle's law, Charle's law, Graham's law of diffusion, Avogadro's law, Dalton's law of partial pressure; Concept of Absolute scale of temperature; Ideal gas equation; Kinetic theory of gases (only postulates); Concept of average, root mean square and most probable velocities; Real gases, deviation from Ideal behaviour, compressibility factor, van der Waals equation, liquefaction of gases, critical constants.

Liquid State:

Properties of liquids - vapour pressure, viscosity and surface tension and effect of temperature on them (qualitative treatment only).

Solid State:

Classification of solids: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea); Bragg's Law and its applications; Unit cell and lattices, packing in solids (fcc, bcc and hcp lattices), voids, calculations involving unit cell parameters, imperfection in solids; Electrical, magnetic and dielectric properties.

UNIT 3: ATOMIC STRUCTURE

Discovery of sub-atomic particles (electron, proton and neutron); Thomson and Rutherford atomic models and their limitations; Nature of electromagnetic radiation, photoelectric effect; Spectrum of hydrogen atom, Bohr model of hydrogen atom - its postulates, derivation of the relations for energy of the electron and radii of the different orbits, limitations of Bohr's model; Dual nature of matter, de-Broglie's relationship, Heisenberg uncertainty principle. Elementary ideas of quantum mechanics, quantum mechanical model of atom, its important features, Ψ and Ψ^2 , concept of atomic orbitals as one electron wave functions; Variation of Ψ and Ψ^2 with r for 1s and 2s orbitals; various quantum numbers (principal, angular momentum and magnetic quantum numbers) and their significance; shapes of s , p and d - orbitals, electron spin and spin quantum number; Rules for filling electrons in orbitals – *aufbau* principle, Pauli's exclusion principle and Hund's rule, electronic configuration of elements, extra stability of half-filled and completely filled orbitals.

UNIT 4: CHEMICAL BONDING AND MOLECULAR STRUCTURE

Kossel - Lewis approach to chemical bond formation, concept of ionic and covalent bonds.

Ionic Bonding: Formation of ionic bonds, factors affecting the formation of ionic bonds; calculation of lattice enthalpy.

Covalent Bonding: Concept of electronegativity, Fajan's rule, dipole moment; Valence Shell Electron Pair Repulsion (VSEPR) theory and shapes of simple molecules.

Quantum mechanical approach to covalent bonding: Valence bond theory - Its important features, concept of hybridization involving s , p and d orbitals; Resonance.

Molecular Orbital Theory - Its important features, LCAOs, types of molecular orbitals (bonding, antibonding), sigma and pi-bonds,

molecular orbital electronic configurations of homonuclear diatomic molecules, concept of bond order, bond length and bond energy.

Elementary idea of metallic bonding. Hydrogen bonding and its applications.

UNIT 5: CHEMICAL THERMODYNAMICS

Fundamentals of thermodynamics: System and surroundings, extensive and intensive properties, state functions, types of processes.

First law of thermodynamics - Concept of work, heat internal energy and enthalpy, heat capacity, molar heat capacity; Hess's law of constant heat summation; Enthalpies of bond dissociation, combustion, formation, atomization, sublimation, phase transition, hydration, ionization and solution.

Second law of thermodynamics; Spontaneity of processes; ΔS of the universe and ΔG of the system as criteria for spontaneity, ΔG° (Standard Gibbs energy change) and equilibrium constant.

UNIT 6: SOLUTIONS

Different methods for expressing concentration of solution - molality, molarity, mole fraction, percentage (by volume and mass both), vapour pressure of solutions and Raoult's Law - Ideal and non-ideal solutions, vapour pressure - composition, plots for ideal and non-ideal solutions; Colligative properties of dilute solutions - relative lowering of vapour pressure, depression of freezing point, elevation of boiling point and osmotic pressure; Determination of molecular mass using colligative properties; Abnormal value of molar mass, van't Hoff factor and its significance.

UNIT 7: EQUILIBRIUM

Meaning of equilibrium, concept of dynamic equilibrium.

Equilibria involving physical processes: Solid -liquid, liquid - gas and solid - gas equilibria, Henry's law, general characteristics of equilibrium involving physical processes.

Equilibria involving chemical processes: Law of chemical equilibrium, equilibrium constants (K_p and K_c) and their significance, significance of ΔG and ΔG° in chemical equilibria, factors affecting equilibrium concentration, pressure, temperature, effect of catalyst; Le Chatelier's principle.

Ionic equilibrium: Weak and strong electrolytes, ionization of electrolytes, various

concepts of acids and bases (Arrhenius, Brønsted - Lowry and Lewis) and their ionization, acid - base equilibria (including multistage ionization) and ionization constants, ionization of water, pH scale, common ion effect, hydrolysis of salts and pH of their solutions, solubility of sparingly soluble salts and solubility products, buffer solutions.

UNIT 8: REDOX REACTIONS AND ELECTROCHEMISTRY

Electronic concepts of oxidation and reduction, redox reactions, oxidation number, rules for assigning oxidation number, balancing of redox reactions.

Electrolytic and metallic conduction, conductance in electrolytic solutions, specific and molar conductivities and their variation with concentration: Kohlrausch's law and its applications.

Electrochemical cells - Electrolytic and Galvanic cells, different types of electrodes, electrode potentials including standard electrode potential, half - cell and cell reactions, emf of a Galvanic cell and its measurement; Nernst equation and its applications; Relationship between cell potential and Gibbs' energy change; Dry cell and lead accumulator; Fuel cells; Corrosion and its prevention.

UNIT 9 : CHEMICAL KINETICS

Rate of a chemical reaction, factors affecting the rate of reactions: concentration, temperature, pressure and catalyst; elementary and complex reactions, order and molecularity of reactions, rate law, rate constant and its units, differential and integral forms of zero and first order reactions, their characteristics and half - lives, effect of temperature on rate of reactions - Arrhenius theory, activation energy and its calculation, collision theory of bimolecular gaseous reactions (no derivation).

UNIT-10 : SURFACE CHEMISTRY

Adsorption- Physisorption and chemisorption and their characteristics, factors affecting adsorption of gases on solids - Freundlich and Langmuir adsorption isotherms, adsorption from solutions.

Catalysis - Homogeneous and heterogeneous, activity and selectivity of solid catalysts, enzyme catalysis and its mechanism.

Colloidal state - distinction among true solutions, colloids and suspensions, classification of colloids - lyophilic, lyophobic; multi molecular, macromolecular and associated colloids (micelles), preparation and properties of colloids - Tyndall effect, Brownian movement, electrophoresis, dialysis, coagulation and flocculation; Emulsions and their characteristics.

SECTION - B

Inorganic Chemistry

UNIT 11: CLASSIFICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES

Modern periodic law and present form of the periodic table, *s*, *p*, *d* and *f* block elements, periodic trends in properties of elements atomic and ionic radii, ionization enthalpy, electron gain enthalpy, valence, oxidation states and chemical reactivity.

UNIT 12: GENERAL PRINCIPLES AND PROCESSES OF ISOLATION OF METALS

Modes of occurrence of elements in nature, minerals, ores; Steps involved in the extraction of metals - concentration, reduction (chemical and electrolytic methods) and refining with special reference to the extraction of Al, Cu, Zn and Fe; Thermodynamic and electrochemical principles involved in the extraction of metals.

UNIT 13: HYDROGEN

Position of hydrogen in periodic table, isotopes, preparation, properties and uses of hydrogen; Physical and chemical properties of water and heavy water; Structure, preparation, reactions and uses of hydrogen peroxide; Classification of hydrides - ionic, covalent and interstitial; Hydrogen as a fuel.

UNIT 14: S - BLOCK ELEMENTS (ALKALI AND ALKALINE EARTH METALS)

Group - 1 and 2 Elements

General introduction, electronic configuration and general trends in physical and chemical properties of elements, anomalous properties of the first element of each group, diagonal relationships.

Preparation and properties of some important compounds - sodium carbonate, sodium chloride, sodium hydroxide and sodium hydrogen carbonate; Industrial uses of lime, limestone, Plaster of Paris and cement;

Biological significance of Na, K, Mg and Ca.

UNIT 15: P - BLOCK ELEMENTS

Group - 13 to Group 18 Elements

General Introduction: Electronic configuration and general trends in physical and chemical properties of elements across the periods and down the groups; unique behaviour of the first element in each group.

Groupwise study of the p – block elements

Group - 13

Preparation, properties and uses of boron and aluminium; Structure, properties and uses of borax, boric acid, diborane, boron trifluoride, aluminium chloride and alums.

Group - 14

Tendency for catenation; Structure, properties and uses of allotropes and oxides of carbon, silicon tetrachloride, silicates, zeolites and silicones.

Group - 15

Properties and uses of nitrogen and phosphorus; Allotropic forms of phosphorus; Preparation, properties, structure and uses of ammonia, nitric acid, phosphine and phosphorus halides, (PCl_3 , PCl_5); Structures of *oxides* and *oxoacids* of *nitrogen* and phosphorus.

Group - 16

Preparation, properties, structures and uses of dioxygen and ozone; Allotropic forms of sulphur; Preparation, properties, structures and uses of sulphur dioxide, sulphuric acid (including its industrial preparation); Structures of *oxoacids* of sulphur.

Group - 17

Preparation, properties and uses of chlorine and hydrochloric acid; Trends in the acidic nature of hydrogen halides; Structures of Interhalogen compounds and oxides and *oxoacids* of halogens.

Group -18

Occurrence and uses of noble gases; Structures of fluorides and oxides of xenon.

UNIT 16: d – and f – BLOCK ELEMENTS

Transition Elements

General introduction, electronic configuration, occurrence and characteristics, general trends in properties of the first row transition elements - physical properties, ionization enthalpy, oxidation states, atomic radii, colour, catalytic behaviour, magnetic properties, complex

formation, interstitial compounds, alloy formation; Preparation, properties and uses of $\text{K}_2\text{Cr}_2\text{O}_7$ and KMnO_4 .

Inner Transition Elements

Lanthanoids - Electronic configuration, oxidation states, chemical reactivity and lanthanoid contraction.

Actinoids - Electronic configuration and oxidation states.

UNIT 17: CO-ORDINATION COMPOUNDS

Introduction to co-ordination compounds, Werner's theory; ligands, co-ordination number, denticity, chelation; IUPAC nomenclature of mononuclear co-ordination compounds, isomerism; Bonding-Valence bond approach and basic ideas of Crystal field theory, colour and magnetic properties; Importance of co-ordination compounds (in qualitative analysis, extraction of metals and in biological systems).

UNIT 18: ENVIRONMENTAL CHEMISTRY

Environmental pollution - Atmospheric, water and soil.

Atmospheric pollution - Tropospheric and stratospheric

Tropospheric pollutants - Gaseous pollutants: Oxides of carbon, nitrogen and sulphur, hydrocarbons; their sources, harmful effects and prevention; Green house effect and Global warming; Acid rain;

Particulate pollutants: Smoke, dust, smog, fumes, mist; their sources, harmful effects and prevention.

Stratospheric pollution- Formation and breakdown of ozone, depletion of ozone layer - its mechanism and effects.

Water Pollution - Major pollutants such as, pathogens, organic wastes and chemical pollutants; their harmful effects and prevention.

Soil pollution - Major pollutants such as: Pesticides (insecticides, herbicides and fungicides), their harmful effects and prevention.

Strategies to control environmental pollution.

SECTION-C

Organic Chemistry

UNIT 19: PURIFICATION AND CHARACTERISATION OF ORGANIC COMPOUNDS

Purification - Crystallization, sublimation,

distillation, differential extraction and chromatography - principles and their applications.

Qualitative analysis - Detection of nitrogen, sulphur, phosphorus and halogens.

Quantitative analysis (basic principles only)
- Estimation of carbon, hydrogen, nitrogen, halogens, sulphur, phosphorus.

Calculations of empirical formulae and molecular formulae; Numerical problems in organic quantitative analysis.

UNIT 20: SOME BASIC PRINCIPLES OF ORGANIC CHEMISTRY

Tetravalency of carbon; Shapes of simple molecules - hybridization (*s* and *p*); Classification of organic compounds based on functional groups: - C = C - , - C ≡ C - and those containing halogens, oxygen, nitrogen and sulphur; Homologous series; Isomerism - structural and stereoisomerism.

Nomenclature (Trivial and IUPAC)

Covalent bond fission - Homolytic and heterolytic: free radicals, carbocations and carbanions; stability of carbocations and free radicals, electrophiles and nucleophiles.

Electronic displacement in a covalent bond
- Inductive effect, electromeric effect, resonance and hyperconjugation.

Common types of organic reactions - Substitution, addition, elimination and rearrangement.

UNIT 21: HYDROCARBONS

Classification, isomerism, IUPAC nomenclature, general methods of preparation, properties and reactions.

Alkanes - Conformations: Sawhorse and Newman projections (of ethane); Mechanism of halogenation of alkanes.

Alkenes - Geometrical isomerism; Mechanism of electrophilic addition: addition of hydrogen, halogens, water, hydrogen halides (Markownikoff's and peroxide *effect*); Ozonolysis, oxidation, and polymerization.

Alkynes - Acidic character; Addition of hydrogen, halogens, water and hydrogen halides; Polymerization.

Aromatic hydrocarbons - Nomenclature, benzene - structure and aromaticity; Mechanism of electrophilic substitution: halogenation, nitration, Friedel – Craft's alkylation and acylation, directive influence of

functional group in mono-substituted benzene.

UNIT 22: ORGANIC COMPOUNDS CONTAINING HALOGENS

General methods of preparation, properties and reactions; Nature of C-X bond; Mechanisms of substitution reactions.

Uses; Environmental effects of chloroform, iodoform, freons and DDT.

UNIT 23: ORGANIC COMPOUNDS CONTAINING OXYGEN

General methods of preparation, properties, reactions and uses.

ALCOHOLS, PHENOLS AND ETHERS

Alcohols: Identification of primary, secondary and tertiary alcohols; mechanism of dehydration.

Phenols: Acidic nature, electrophilic substitution reactions: halogenation, nitration and sulphonation, Reimer - Tiemann reaction.

Ethers: Structure.

Aldehyde and Ketones: Nature of carbonyl group;

Nucleophilic addition to >C=O group, relative reactivities of aldehydes and ketones; Important reactions such as - Nucleophilic addition reactions (addition of HCN, NH₃ and its derivatives), Grignard reagent; oxidation; reduction (Wolff Kishner and Clemmensen); acidity of *α* - hydrogen, aldol condensation, Cannizzaro reaction, Haloform reaction; Chemical tests to distinguish between aldehydes and Ketones.

CARBOXYLIC ACIDS

Acidic strength and factors affecting it.

UNIT 24: ORGANIC COMPOUNDS CONTAINING NITROGEN

General methods of preparation, properties, reactions and uses.

Amines: Nomenclature, classification, structure, basic character and identification of primary, secondary and tertiary amines and their basic character.

Diazonium Salts: Importance in synthetic organic chemistry.

UNIT 25: POLYMERS

General introduction and classification of polymers, general methods of polymerization - addition and condensation, copolymerization;

Natural and synthetic rubber and vulcanization; some important polymers with emphasis on their monomers and uses - polythene, nylon, polyester and bakelite.

UNIT 26: BIOMOLECULES

General introduction and importance of biomolecules.

CARBOHYDRATES - Classification: aldoses and ketoses; monosaccharides (glucose and fructose), constituent monosaccharides of oligosaccharides (sucrose, lactose, maltose) and polysaccharides (starch, cellulose, glycogen).

PROTEINS - Elementary Idea of α - amino acids, peptide bond, polypeptides; Proteins: primary, secondary, tertiary and quaternary structure (qualitative idea only), denaturation of proteins, enzymes.

VITAMINS - Classification and functions.

NUCLEIC ACIDS - Chemical constitution of DNA and RNA.

Biological functions of nucleic acids.

UNIT 27: CHEMISTRY IN EVERYDAY LIFE

Chemicals in medicines - Analgesics, tranquilizers, antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamins - their meaning and common examples.

Chemicals in food - Preservatives, artificial sweetening agents - common examples.

Cleansing agents - Soaps and detergents, cleansing action.

UNIT 28: PRINCIPLES RELATED TO PRACTICAL CHEMISTRY

• Detection of extra elements (N,S, halogens) in organic compounds; Detection of the following functional groups: hydroxyl (alcoholic and phenolic), carbonyl (aldehyde and ketone), carboxyl and amino groups in organic compounds.

• Chemistry involved in the preparation of the following:

Inorganic compounds: Mohr's salt, potash alum.

Organic compounds: Acetanilide, p-nitroacetanilide, aniline yellow, iodoform.

• Chemistry involved in the titrimetric exercises - Acids bases and the use of indicators, oxalic-acid vs KMnO_4 , Mohr's salt vs KMnO_4 .

• Chemical principles involved in the qualitative salt analysis:

Cations - Pb^{2+} , Cu^{2+} , Al^{3+} , Fe^{3+} , Zn^{2+} , Ni^{2+} , Ca^{2+} , Ba^{2+} , Mg^{2+} , NH_4^+ .

Anions- CO_3^{2-} , S^{2-} , SO_4^{2-} , NO_2^- , NO_3^- , Cl^- , Br^- , I^- . (Insoluble salts excluded).

• Chemical principles involved in the following experiments:

1. Enthalpy of solution of CuSO_4
2. Enthalpy of neutralization of strong acid and strong base. .
3. Preparation of lyophilic and lyophobic sols.
4. Kinetic study of reaction of iodide ion with hydrogen peroxide at room temperature.

SYLLABUS FOR APTITUDE TEST B. ARCH./B. PLANNING

Part - I Awareness of persons, places, Buildings, Materials.) Objects, Texture related to Architecture and build~ environment. Visualising three dimensional objects from two dimensional drawings. Visualising. different sides of three dimensional objects. Analytical Reasoning Mental Ability (Visual, Numerical and Verbal).

Part - II Three dimensional - perception: Understanding and appreciation of scale and proportion of objects, building forms and elements, colour texture, harmony and contrast. Design and drawing of geometrical or abstract shapes and patterns in pencil. Transformation of forms both 2 D and 3 D union, subtraction, rotation, development of surfaces and volumes, Generation of Plan, elevations and 3 D views of objects. Creating two dimensional and three dimensional compositions using given shapes and forms.

Sketching of scenes and activities from memory of urbanscape (public space, market, festivals, street scenes, monuments, recreational spaces etc.), landscape (river fronts, jungles. gardens, trees, plants etc.) and rural life.

Note: Candidates are advised to bring pencils, own geometry box set, erasers and colour pencils and crayons for the Aptitude Test.

ADDRESSES OF DESIGNATED BRANCHES OF SYNDICATE BANK, INSTITUTIONS AND REGIONAL OFFICES OF THE CBSE FROM WHERE INFORMATION BULLETIN WITH APPLICATION FORM CAN BE PROCURED AGAINST CASH PAYMENT (NOT BY POST)

S.No.	PLACE	SYNDICATE BANK/ INSTITUTION	ADDRESSES
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ANDAMAN & NICOBAR

1.	PORT BLAIR	SYNDICATE BANK	19-TAGORE ROAD, GANDHI NAGAR, MOHANPURA, PORT BLAIR-744101, ANDAMAN ISLANDS.
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ANDHRA PRADESH

2.	HYDERABAD	INSTITUTION	BHARTIYA VIDYA BHAVAN, JUBILEE HILLS, HYDERABAD
3.	HYDERABAD	INSTITUTION	HOWARD PUBLIC SCHOOL, HIMAYAT NAGAR, HYDERABAD
4.	SECUNDRABAD	INSTITUTION	ARMY PUBLIC SCHOOL, R.K. PURAM, SECUNDERABAD
5.	VIJAYWADA	INSTITUTION	V.P. SIDDHARTHA PUBLIC SCHOOL, MOGALRAJAPURAM, VIJAYAWADA
6.	VIJAYWADA	INSTITUTION	N. ST. MATHEWS PUBLIC SCHOOL, PATAMATA, VIJAYAWADA
7.	GUNTUR	INSTITUTION	SRI VENKATESWARA BALA KUTEER, 3RD LINE, SHYAMALA NAGAR, GUNTUR
8.	TIRUPATI	INSTITUTION	B V B SRI VENKATESWARA VIDYALAYA, BHAVAN'S CAMPUS, ALIPIRI, TIRUPATI.
9.	ANANTPUR	INSTITUTION	SRI SATHYA SAI HR. SEC. SCHOOL, PRASANTHI NILAYAM, ANANTPUR
10.	WARANGAL	INSTITUTION	WARANGAL PUBLIC SCHOOL, HUNTER ROAD, HANAMKONDA, WARANGAL
11.	VISAKHAPATNAM	INSTITUTION	VIKAS VIDYA NIKETAN, D. NO. 1-1-1-1 SHEELA NAGAR, NH-5, VISAKHAPATNAM
12.	VISAKHAPATNAM	INSTITUTION	RAMANATH SECONDARY SCHOOL, NSTL COMPLEX, VIGYAN NAGAR, VISAKHAPATNAM

ARUNACHAL PRADESH

13.	ITANAGAR	INSTITUTION	GYAN GANGA VIDYAPEETH, CHANDER NAGAR, ITANAGAR-791111, ARUNACHAL PRADESH
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ASSAM

14.	GUWAHATI	SYNDICATE BANK	135, MOTILAL NEHRU ROAD, PAN BAZAR, GUWAHATI-781001.
15.	JORHAT	SYNDICATE BANK	JPR ROAD JUNCTION, GAR ALI, P B NO.92, JORHAT-785001
16.	SILCHAR	INSTITUTION	NATIONAL INSTITUTE OF TECHNOLOGY, SILCHAR, ASSAM

BIHAR

17.	PATNA	SYNDICATE BANK	14, ANIKET, IAS COLONY, S.K. NAGAR, KIDWAIPURI, PATNA-800001.
18.	PATNA	SYNDICATE BANK	BIHAR RAJYA JAL PARISHAD BLDG., SAIDPUR ROAD, PATNA
19.	PATNA	SYNDICATE BANK	RANJAN PATH, BAILY ROAD, GYAN NIKETAN BLDG., GOLA ROAD, DANAPUR-801503, PATNA
20.	MUZAFFARPUR	SYNDICATE BANK	23, CHHOTI KALYANI ROAD, NEAR KALYANI POST OFFICE, MUZAFFARPUR, PIN CODE-842001.
21.	BHAGALPUR	SYNDICATE BANK	PATAL BABU NIWAS, PATAL BABU ROAD, BHAGALPUR-812001.
22.	GAYA	SYNDICATE BANK	63, K.P. ROAD, GAYA, DISTT. GAYA-823001

CHANDIGARH

23.	CHANDIGARH	SYNDICATE BANK	SCO 66-67, SECTOR 17-B, BANK SQUARE, PB No. 107, CHANDIGARH-160017
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CHHATISGARH

24.	RAIPUR	SYNDICATE BANK	113,SMT SURAJDEVI SHUKLA COMPLEX, NEAR DESHBANDHU SCHOOL, STATION ROAD, RAIPUR-492009.
25.	BILASPUR	SYNDICATE BANK	29/19, MAIN RAOD, DAYAL BAND, BILASPUR-495001
26.	JAGDALPUR	CANARA BANK	JAGDALPUR, DISTT. BASTAR-494001 (CHHATISGARH)

DELHI/NEW DELHI

27.	ASAF ALI ROAD	SYNDICATE BANK	29A/1, MADHAV MANSION, 1st FLOOR, ASAF ALI ROAD, N.DELHI-110002
28.	K.G. MARG	SYNDICATE BANK	JEEVAN PRAKASH BUILDING, 1ST FLOOR, 25, K.G. MARG, NEW DELHI-110001

S.No.	PLACE	SYNDICATE BANK/ INSTITUTION	ADDRESSES
29.	GREEN PARK EXTN	SYNDICATE BANK	S-12, GREEN PARK EXTN., NEW DELHI-110016
30.	KASHMIRI GATE	SYNDICATE BANK	1529 & 1532, CHURCH ROAD, KASHMIRI GATE, PB No. 1677, DELHI-110006.
31.	PUNJABI BAGH	SYNDICATE BANK	BLDG. No. 2 & 3, CENTRAL MARKET, WEST PUNJABI BAGH, NEW DELHI-110026.
32.	VIKASPURI	SYNDICATE BANK	M-167, VIKASPURI, NEW DELHI-110018.
33.	ROHINI	SYNDICATE BANK	PLOT No. 2, SERVICE CENTRE, COMPETENT PLAZA, ROHINI SECTOR-5, DELHI-110085.
34.	PREET VIHAR	SYNDICATE BANK	CBSE EXTN. COUNTER, 2, COMMUNITY CENTRE, PREET VIHAR, DELHI-110092.
35.	EAST BLOCK, R.K. PURAM	SYNDICATE BANK	EAST BLOCK (BSF), BLOCK NO. 9, R.K. PURAM, NEW DELHI-110066
36.	SHAHDARA	SYNDICATE BANK	9411-9416 SHANKAR MARKET, RAILWAY ROAD, CHHOTA BAZAR, SHAHDARA, DELHI-110032.
GOA			
37.	PANAJI	SYNDICATE BANK	HOTEL NOVA GOVA BUILDING, Dr. ATMARAM BORKAR ROAD, PB No. 193, PANAJI-403001
GUJARAT			
38.	AHEMDABAD	SYNDICATE BANK	NEPTUNE TOWER, OPP. NEHRU RIDGE, ASHRAM ROAD, P B NO. 4078, AHEMDABAD-380009.
39.	RAJKOT	SYNDICATE BANK	ABBASI-CHAMBER, NR. PARA BAZAR, DHEVAR ROAD, RAJKOT-360001
40.	SURAT	SYNDICATE BANK	RATAN KUTIR BUILDING, P B NO.277, SALABATPURA, MAIN ROAD, SURAT-395003
41.	VADODARA	SYNDICATE BANK	DHAYBER SHOPPING CENTRE, CENDIGATE ROAD, P.B. NO.8, MANDVI, VADODARA-390017
HARYANA			
42.	AMBALA CANTT	SYNDICATE BANK	3704/7, PANNA COTTAGE, JAGADHARI ROAD, AMBALA CANTT – 133001.
43.	HISSAR	SYNDICATE BANK	SCO 152-153, UCEIN, NEAR TELEPHONE EXCHANGE, RED SQUARE MARKET, HISSAR-125001
44.	FARIDABAD	SYNDICATE BANK	48, NEELAM BATA ROAD, P.B. No. 23, FARIDABAD-121001.
45.	KARNAL	SYNDICATE BANK	NETAJI SUBHASH MARKET, COMMITTEE CHOWK, KARNAL-132001.
46.	KURUKSHETRA	SYNDICATE BANK	SCO-14, SECTOR 17, URBAN STATE, KURUKSHETRA-136118
47.	ROHTAK	SYNDICATE BANK	JHAJJAR ROAD, ROHTAK-124001
48.	GURGAON	SYNDICATE BANK	472/11, OLD RAILWAY ROAD, GURGAON-122001
49.	PANIPAT	SYNDICATE BANK	548/20 COLONY, G.T. ROAD, PANIPAT, DISTT. PANIPAT-132103
50.	SIRSA	SYNDICATE BANK	CITY THANA ROAD, SIRSA-125055, DISTT. SIRSA
HIMACHAL PRADESH			
51.	SHIMLA	SYNDICATE BANK	6, THE MALL, SHIMLA-171001.
52.	DHARAMSHALA	INSTITUTION	BHAGIRATHI DAS, D.A.V. PUBLIC SCHOOL, DHARAMSHALA-176215
53.	MANDI	INSTITUTION	D.A.V. CENTENARY PUBLIC SCHOOL, JAWAHAR NAGAR, MANDI-175001
54.	SOLAN	INSTITUTION	MRA D.A.V. SR. SEC. SCHOOL, BYPASS, SOLAN-173212
55.	HAMIRPUR	INSTITUTION	NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR-177005 (HP)
JAMMU & KASHMIR			
56.	JAMMU	SYNDICATE BANK	SANT PALACE, PURANI MANDI, JAMMU-180001
57.	SRINAGAR	INSTITUTION	NATIONAL INSTITUTE OF TECHNOLOGY, HAZRATBAL, SRINAGAR(J&K) - 196006
JHARKHAND			
58.	BOKARO STEEL CITY	SYNDICATE BANK	C-1, CITY CENTER, SECTOR IV, P.B. No. 27, BOKARO STEEL CITY-827004.
59.	DHANBAD	SYNDICATE BANK	BALAJEE MANSIONS, KATRAS ROAD, DHANBAD-826001.

S.No.	PLACE	SYNDICATE BANK/ INSTITUTION	ADDRESSES
60.	RANCHI	SYNDICATE BANK	IST FLOOR, RANI SATI MARKET, LALJI HIRJI ROAD, RANCHI-834001.
61.	JAMSHEDPUR	SYNDICATE BANK	No.1, MONUMENT ROAD, BISTUPUR, JAMSHEDPUR-831001,DISTT – PURBI SINGHBHUM
62.	DEOGHAR	SYNDICATE BANK	94, ASSAM ACCESS ROAD, HOTEL PRABHA COMPLEX, DEOGHAR, DISTT. DEOGHAR-814112

KARNATAKA

63.	BANGALORE CANTT.	SYNDICATE BANK	SHOMTHI KAMAL MANSION, 33 DICKENSON ROAD, CANTONMENT, P.O. BOX No.4206, BANGALORE-560042.
64.	BWSSB-BANGALORE BRANCH	SYNDICATE BANK	10/1 1ST FLOOR, RAJDHOOTH COMPLEX, AVENUE ROAD ENTRANCE, BANGALORE-560002
65.	MANGALORE	SYNDICATE BANK	LIGHT HOUSE HILL ROAD, HAM PANKATHA, MANGALORE-575001

KERALA

66.	THIRUVANTHA-PURAM	SYNDICATE BANK	KERALA STATE CO-OPERATIVE AGRICULTURE AND RURAL DEVELOPMENT BANK BUILDING, P.B. No.314, DISTT. THIRUVANTHAPURAM-695001.
67.	ERNAKULAM	SYNDICATE BANK	PIONEER TOWERS, IST FLOOR, P B 2616, SHANMUGHAM ROAD ERNAKULAM-682031
68.	KOZHIKODE	SYNDICATE BANK	P B NO.61,CHEROOTY ROAD, KOZHIKODE-673001
69.	KOTTAYAM	SYNDICATE BANK	DOOR NO VII/854, BAKER JUNCTION, KOTTAYAM-686001
70.	THIRISSUR	SYNDICATE BANK	PALACE ROAD, THIRISSUR (KERALA) -680020

LAKSHADWEEP

71.	KAVARATTI ISLAND	SYNDICATE BANK	VIA – P.O. KOCHI, KAVARATTI, LAKSHADWEEP-682555
72.	ANDROTH ISLAND	SYNDICATE BANK	VIA – PO KOCHI, ANDROTH, LAKSHADWEEP-682551
73.	KADAMAT ISLAND	SYNDICATE BANK	VIA HPO KOCHI NO-C-5-175, KADAMAT ISLAND, LAKSHADWEEP-682556
74.	MINICOY ISLAND	SYNDICATE BANK	VIA HEAD POST OFFICE, KOCHI, LAKSHADWEEP-682559

MADHYA PRADESH

75.	INDORE	SYNDICATE BANK	67 MTH COMPOUND, RAJA RAM MOHAN ROY COMPLEX, RAJWADA CHOWK, INDORE-452004.
76.	BHOPAL	SYNDICATE BANK	102/103, KALACHAND MANSION, BERASIA ROAD, BHOPAL-462001.
77.	GWALIOR	SYNDICATE BANK	MOTI MARKET, JAYENDRAGANJ, LASHKAR, P.B.13, GWALIOR-474009
78.	JABALPUR	SYNDICATE BANK	MOTIWALA MARKET, JAIN MANDIR MARG, LORD GANJ, JABALPUR-482002

MAHARASHTRA

79.	COLABA, MUMBAI	SYNDICATE BANK	4/5, KARTAR BHAWAN, ARTHUR BUNDER ROAD, CAUSEWAY, COLABA,MUMBAI-400005
80.	BACKBAY RECLA-MATION, MUMBAI	SYNDICATE BANK	MOTI MAHAL, 195, J. TATA ROAD, BACKBAY RECLAMATION, MUMBAI-400020
81.	MALABAR HILL, MUMBAI	SYNDICATE BANK	SHREEPAL NAGAR, 12 J M MEHTA ROAD, MALABAR HILLS, MUMBAI-400006
82.	AURANGABAD	SYNDICATE BANK	PLOT NO. 1 SARADA ARCADE, FRIENDS COLONY, RAILWAY STATION ROAD, AURANGABAD-431001
83.	NAGPUR	SYNDICATE BANK	SARDA KUNJ, 84 CENTRAL AVENUE ROAD, SEWASADAN CHOWK, GANDHIBAGH, PB No.-368, NAGPUR-440018.
84.	PUNE MAIN	SYNDICATE BANK	7/2, NARAYANPETH, 1ST FLOOR, LAXMI ROAD, PUNE-411030
85.	SHOLAPUR MAIN	SYNDICATE BANK	824, WEST MANGALWARPETH, SHOLAPUR-413002

MANIPUR

86.	IMPHAL	STATE BANK OF INDIA	STATE BANK OF INDIA, IMPHAL – 795001
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S.No.	PLACE	SYNDICATE BANK/ INSTITUTION	ADDRESSES
MEGHALAYA			
87.	SHILLONG	SYNDICATE BANK	U-TIROT SING SYLEM ROAD, SHILLONG, DISTT. EAST KHASI HILLS-793002 (MEGHALAYA)
MIZORAM			
88.	AIZWAL	APEX BANK	MIZORAM CO-OP APEX BANK LTD. MAIN BRANCH, AIZWAL-796007
ORISSA			
89.	BHUBANESWAR	SYNDICATE BANK	KALPANA SQUARE, BHUBANESWAR, DISTT. KHURDA -751014.
90.	CUTTACK	SYNDICATE BANK	WARD NO. 14, NANDI SHAHI, P.O. CHOWDHARY BAZAR, CUTTACK-753001
91.	ROURKELA	SYNDICATE BANK	PLOT NO. 467/941 UMA BHAWAN, BISRA ROAD, ROURKELA-769 001, DISTT. SUNDERGARH
PUNJAB			
92.	PATIALA	SYNDICATE BANK	SHOP No. 1-2-3, LEELA BHAWAN MARKET COMPLEX, BHUPINDER ROAD, PATIALA-147001.
93.	JALANDHAR	SYNDICATE BANK	NEAR HOTEL SKYLARK, MODEL TOWN ROAD, PB No. 57, JALANDHAR CITY, PIN-144001.
94.	LUDHIANA	SYNDICATE BANK	KACHEHARI ROAD, NEAR CLOCK TOWER, LUDHIANA-141008.
95.	BHATINDA	SYNDICATE BANK	2710, BHAI KA CHAMBER, OLD BUS STAND, G.T. ROAD, BHATINDA-151 001.
RAJASTHAN			
96.	JAIPUR	SYNDICATE BANK	JAIPUR TOWERS, PB No. 16, M I ROAD, JAIPUR-302001
97.	UDAIPUR	SYNDICATE BANK	1-BABU BAZAR, UDAIPUR-313001
98.	KOTA	SYNDICATE BANK	68, OLD DHANMANDI, SAROVAR, CINEMA ROAD, KOTA - 324006
99.	JODHPUR	SYNDICATE BANK	862, DEVENDER SINGVI MARG, JODHPUR-342001
SIKKIM			
100.	GANGTOK	STATE BANK OF INDIA	70 MG ROAD, GANGTOK-737101, DISTT. EAST SIKKIM
101.	GANGTOK	SYNDICATE BANK	M.G. MARG NEW MARKET GANGTOK, DISTT.-EAST, SIKKIM-737101
TAMIL NADU			
102.	CHENNAI	SYNDICATE BANK	OPP. MOUNT ROAD, POST OFFICE, 38, ANNA SALAI, CHENNAI-600002
103.	CHENNAI	SYNDICATE BANK	DOOR NO. 24, 1ST FLOOR, APS PLAZA, SARDAR PATEL ROAD, ADYAR, CHENNAI-600020.
104.	CHENNAI	SYNDICATE BANK	PLOT NO 1742, 18TH MAIN ROAD, ANNA NAGAR WEST, CHENNAI-600040.
105.	COIMBATORE	SYNDICATE BANK	80, OPPANKARA STREET, COIMBATORE-641001
106.	MADURAI	SYNDICATE BANK	134, PALACE ROAD, MADURAI-625001
107.	VELLORE	SYNDICATE BANK	10, MUNDY STREET, PB No. 401, VELLORE-632004
108.	TIRUNELVELI	SYNDICATE BANK	NO 184/21 WEST CAR STREET, NIZAM COMPLEX, TIRUNELVELI TOWN-627006.
109.	TIRUCHIRAPALLI	SYNDICATE BANK	146, WEST BOULEWARD ROAD, P B NO 319 TIRUCHIRAPALLI-620002
TRIPURA			
110.	AGARTALA	INSTITUTION	HINDI HR. SEC. SCHOOL, ABHAY NAGAR, KUNJABAN ROAD, AGARTALA-799005
UTTAR PRADESH			
111.	LUCKNOW	SYNDICATE BANK	OPP. GULMARG HOTEL, HARI BHAWAN, AMINABAD, LUCKNOW-226018.
112.	VARANASI	SYNDICATE BANK	CHETGANJ, VARANASI-221001
113.	VARANASI	SYNDICATE BANK	ANAND BAZAR, GODOLIA CHOWK, VARANASI-221001 (U.P.)
114.	BAREILLY	SYNDICATE BANK	167A, CIVIL LINES, BAREILLY, BAREILLY-243001.
115.	AGRA	SYNDICATE BANK	43/2, MANISHA BLOCK, SANJAY PLACE, AGRA-282002
116.	GORAKHPUR	SYNDICATE BANK	NEAR AD GIRLS INTER COLLEGE, BANK ROAD, GOLGHAR, GORAKHPUR-273001

S.No.	PLACE	SYNDICATE BANK/ INSTITUTION	ADDRESSES
117.	ALLAHABAD	SYNDICATE BANK	CHANDDRA SHEKHAR AZAD MARKET, 1ST FLOOR, SARDAR PATEL MARG, CIVIL LINES, P B NO.106, ALLAHABAD-211001
118.	KANPUR	SYNDICATE BANK	B-1/B, OFFICERS COLONY, SARVODAYA NAGAR, KANPUR-208005,
119.	MEERUT	SYNDICATE BANK	201, SAKET, MEERUT-250003
120.	NOIDA	SYNDICATE BANK	B-16-17, SECTOR-18, NOIDA, DISTT. GAUTAM BUDH NAGAR-201301
121.	ALIGARH	SYNDICATE BANK	NCC CAMPUS, ALIGARH MUSLIM UNIVERSITY, ALIGARH-202002
122.	GHAZIABAD	SYNDICATE BANK	R-1/77, GROUND FLOOR, NEW RAJNAGAR, GHAZIABAD-201002
123.	BULANDSHAHR	SYNDICATE BANK	48-A, CIVIL LINES, BULANDSHAHR-203001.

UTTARAKHAND

124.	DEHRADUN	SYNDICATE BANK	45, RAJPUR ROAD, PB No. 30, DEHRADUN-248001.
125.	HARDWAR	SYNDICATE BANK	GROUND FLOOR, PARIMISTHI BLDG., DEVPURA (NR. HIMGIRI HOTEL), HARDWAR-249401
126.	HALDWANI	INSTITUTION	SHRI GURU TEGH BAHADUR PUBLIC SCHOOL, CIVIL LINES, BHOTIA PARAO, HALDWANI-263139, DISTT. NAINITAL.
127.	ROORKEE	INSTITUTION	CHILDREN SR. ACADEMY, DELHI ROAD, ROORKEY-201332, DISTT. HARDWAR-201332
128.	NAINITAL	INSTITUTION	BIRLA VIDYA MANDIR, NAINITAL-263001
129.	ALMORA	INSTITUTION	DIRECTOR, KUMAON ENGINEERING COLLEGE, DWARHAT, ALMORA-263601
130.	PANT NAGAR	INSTITUTION	GOVIND BALLABH UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANT NAGAR, DISTT. U. S. NAGAR-263145
131.	PAURI GARHWAL	INSTITUTION	G. B. PANT ENGINEERING COLLEGE, GHUDAURI, PAURI GARHWAL-246001

PUDUCHERRY

132.	PUDUCHERRY	SYNDICATE BANK	No. 122 & 124, J N STREET, (Upstairs), NEAR VELAN SILKS, PUDUCHERRY-605001.
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WEST BENGAL

133.	N.S. ROAD, KOLKATA	SYNDICATE BANK	6 NETAJI SUBHAS ROAD, ROYAL EXCHANGE, DALHOUSIE AREA, PB No. 2043, KOLKATA-700001
134.	SALT LAKE CITY, KOLKATA	SYNDICATE BANK	BB24, SECTOR-1, SALT LAKE CITY, KOLKATA-700064
135.	BARA BAZAR, KOLKATA	SYNDICATE BANK	KAVERI HOUSE, 132/1, M G ROAD, KOLKATA-700007.
136.	DURGAPUR	SYNDICATE BANK	SHRI LAKSHMI NARYAN BHAWAN, NACHAN ROAD, BENACHITY DURGAPUR-713213
137.	ASANSOL	SYNDICATE BANK	16, G.C. MITRA ROAD, HUTTON ROAD, ASANSOL-713301, DISTT. BARDDHAMAN
138.	KHARAGPUR	SYNDICATE BANK	197/259, MALANCHA ROAD, KHARAGPUR-721301, DISTT. PASCHIM MEDINIPUR
139.	SILIGURI	SYNDICATE BANK	KILLA BHAWAN, SAGARMAL RAJKUMAR COMPLEX, STATION FEEDER ROAD, SILIGURI-734405, DISTT. DARJEELING

REGIONAL OFFICES OF CBSE

140.	AJMER	REGIONAL OFFICE	THE REGIONAL OFFICER, CBSE, TODARMAL MARG, AJMER-305001.
141.	PANCHKULA	REGIONAL OFFICE	THE REGIONAL OFFICER, CBSE, SECTOR – 5 , PANCHKULA (HARYANA)
142.	GUWAHATI	REGIONAL OFFICE	THE REGIONAL OFFICER, CBSE, RAJGARH ROAD, RAJGARH TINALI, GUWAHATI-781003.
143.	ALLAHABAD	REGIONAL OFFICE	THE REGIONAL OFFICER, CBSE, 35-B, M.G. MARG, CIVIL LINES, ALLAHABAD-211011, U.P.
144.	CHENNAI	REGIONAL OFFICE	THE REGIONAL OFFICER, CBSE, PLOT NO. 1630-A, J-BLOCK ANNA NAGAR, CHENNAI-600040 (W), TAMIL NADU.

ABROAD

145.	DUBAI	INSTITUTION	THE INDIAN HIGH SCHOOL, P.O.BOX NO. 106, DUBAI, U.A.E.
146.	RIYAD	INSTITUTION	INTERNATIONAL INDIA SCHOOL, P.O. NO. 89788, RIYAD, KINGDOM OF SAUDI ARABIA

INSTRUCTIONS FOR COMPLETING AND SENDING THE APPLICATION FORM

The candidate seeking admission to the AIEEE is required :-

- i) to go through the Information Bulletin carefully and acquaint with all the requirements;
- ii) to satisfy eligibility to appear in the examination;
- iii) to send the application on the prescribed Application Form complete in all respect or submit it online;
- iv) to write complete mailing address with Postal Pin Code in the Application Form in the capital letters only;
- v) to fill in the Application Form in own handwriting in BLOCK LETTERS in English only, using blue/black ball point pen, within the prescribed boxes. Use blue/black ball point for darkening the appropriate circle(s) also.
- vi) **to write amount of additional fee, Bank draft/Demand draft No., date and Bank Code properly if applying for both BE/ B.Tech and B.Arch/B.Planning together, or opted centre at foreign country.**
- vii) **OVERWRITING, CUTTINGS, ERASINGS IN THE APPLICATION FORM AND INCOMPLETE FORM MAY LEAD TO REJECTION OF FORM AND SHOULD BE AVOIDED. ANY ERROR ARISING ON THIS ACCOUNT SHALL BE THE RESPONSIBILITY OF THE CANDIDATE.**
- viii) The Application Form duly filled in should be sent to THE ASSISTANT SECRETARY(AIEEE), CENTRAL BOARD OF SECONDARY EDUCATION, PS 1-2 INSTITUTIONAL AREA, IP EXTENSION, PATPARGANJ, DELHI-110092 in the printed envelope supplied by the Board so as to reach positively by **10.01.2008. The Application Form will not be received personally in any case.** The candidate must retain photocopy of his/her filled in Application Form for future correspondence, if required.
- ix) The last date for receipt of Application Form by **Registered/Speed Post (NOT BY COURIER) is 10.01.2008.** Thereafter 15 days grace time for receipt of Application Form up to 25.01.2008 will be allowed to the candidates belonging to remote areas viz. Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura, Lahaul and Spiti District and Pangri sub division of Chamba District of Himachal Pradesh, Andaman & Nicobar Island and Lakshadweep
- x) **If a candidate submits more than one Application Form, his/her candidature shall be liable to be cancelled and debarred for future examination(s).**
- xi) (a) **For S. Nos. 1, 2 & 3 of the Application Form :-** Candidate should write his/her name, mother's name, father's name in capital letters as given in Class X Certificate of Board/University. Each letter should be filled in one box as shown below. One box should be left blank between each part of the name. Before filling in the Application Form, write on a plain paper and verify the correctness of spellings.

Candidate's Name : RAJ BALA

R	A	J		B	A	L	A												
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Mother's Name: SHARDA RANI

S	H	A	R	D	A		R	A	N	I									
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Father's Name: RAM KISHAN

R	A	M		K	I	S	H	A	N										
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- (b) **Please note : For S. Nos. 4 to 10, 12, 13 & 17 of the Application Form : In case of discrepancy in written code and darkened circle, code written in the box(es) shall be taken as final without any correspondence.**

For S.Nos. 4 to 7,9 & 12 of the Application Form :- Write appropriate Code and darken the appropriate circle as applicable for the following:-

- Choice of Examination Centre Cities (Please see **Appendix VI**)
State Code of Eligibility For State code please see point 'm' of this Appendix
- Sex
- Nationality
- Question Paper Medium
- Category

- (c) **For Serial No. 8 of the Application Form :** In case of girl candidate if you are the only child of your parents i.e. no brother or sister write 1 in the box and darken circle Yes. Otherwise write 2 in the box and darken circle No.

- (d) **For S. No. 10 of the Application Form i.e Date of Birth :** Write and darken the appropriate circle for the date, month and year of birth as per English calendar and as recorded in the Secondary Education Board/ University Certificate.

Use numerals 01 to 31 for the date, 01 to 12 for the month and last two digits for the year of birth as shown below.

e.g. 3rd October, 1983

29th November, 1986

DATE	MONTH	YEAR						
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1	1							
8	6							

(e) For S. Nos. 11, 14, 15 and 16 of the Application Form : Darken the appropriate circle(s) as applicable for the following:-

- Place of residence
 School Board of Class-XII
 Type of Institution of Class-XII
 Mode of preparation

(f) For S. No. 13 of the Application Form: Write appropriate Code from the following:

	Code
If Physically Handicapped	1
If not	2

(g) For S. No. 17 of the Application Form i.e Courses Applying for : Write appropriate Code and darken the appropriate circle as applicable from the following:

COURSE	CODE
B.E./B.TECH. only	1
B.ARCH only	2
B.E./B.TECH and B.ARCH (Both)	3

(h) For S. No. 18 of the Application Form: The candidate should affix left hand thumb impression.

(i) For S. No. 19, 20 and 21 of the Application Form : Write appropriate code as applicable for the following:-

- Percentage of Marks (rounded off to the nearest integer) obtained in Class X and Class XII (if passed)
 Year of passing/appearing Class XII (This information must be supplied otherwise application will be rejected)
 Father's / Guardian's / Mother's Educational Qualifications
 Father's / Guardian's / Mother's Occupation
 Father's / Guardian's / Mother's Annual Income
- } S. No. 21

(k) For S.No. 22 of the Application Form i.e Mailing Address : Write your name and complete mailing address IN CAPITAL LETTERS including the PIN CODE at which the communication is to be sent.

(j) For S. No. 23 of the Application Form: Write your complete STD Code & telephone No, if available.

(l) For S. No. 24 - please fill up details of additional fees to be paid in case applying for both BE/B.Tech & B. Arch/B. Planning (together) or opting examination centre in foreign country. In case of payment of additional fees of Rs. 200/- please prefix 0 before the amount i.e.

0	2	0	0
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(m) State Code of Eligibility of the candidate:

(i) State Code of eligibility means the Code of the State from where a candidate has passed +2 examination by virtue of which he/she becomes eligible to appear in the AIEEE for admission to B.E/B.Tech and B.Arch/B. Planning Courses of the institutions/ Colleges of the States/UT.

Due to creation of new States of Chattisgarh, Jharkhand and Uttarakhand, certain places/institutions of Madhya Pradesh, Bihar and Uttar Pradesh from where the candidates have passed their +2 examination have now come within the jurisdiction of the newly created states. The candidates are, therefore, requested to fill in the State Code of eligibility as per the present jurisdiction of the respective States.

(ii) Indian nationals passing the equivalent qualifying examination from any institution abroad, the State of Eligibility will be determined on the basis of permanent address given in the Passport of the candidate.

NAME OF THE STATE /UT	CODE
Andaman & Nicobar Islands	01
Andhra Pradesh	02
Arunachal Pradesh	03
Assam	04
Bihar	05
Chandigarh	06
Chhattisgarh	07
Dadra & Nagar Haveli (UT)	08
Daman & Diu (UT)	09
Delhi (NCT)	10

NAME OF THE STATE /UT	CODE
Goa	11
Gujarat	12
Haryana	13
Himachal Pradesh	14
Jammu & Kashmir	15
Jharkhand	16
Karnataka	17
Kerala	18
Lakshadweep (UT)	19
Madhya Pradesh	20
Maharashtra	21
Manipur	22
Meghalaya	23
Mizoram	24
Nagaland	25
Orissa	26
Puducherry (UT)	27
Punjab	28
Rajasthan	29
Sikkim	30
Tamil Nadu	31
Tripura	32
Uttar Pradesh	33
Uttarakhand	34
West Bengal	35

- (n) **Photograph** : Firmly affix two recent high contrast passport size preferably black & white photograph (taken on or after 1.9.2007) with gum/fevicol (not to be pinned or stapled) in the space provided for it in the Application Form one duly attested by the head of the institution where the candidate is studying/passed class XII or the Gazatted officer. The photograph must indicate clearly the name of the candidate along with the date of taking the photograph. It should be without cap or goggles. Spectacles are allowed. **Polaroid photos are not acceptable.** The photograph of the candidate should be attested by the Principal/Head of the Institution or Gazatted Officer in such a way that part of the signature is on the photograph and remaining part of the signature is on the application form. Attestation should be done on the bottom part of the photograph so that the photograph is not defaced. Candidates not complying with these instructions or with unclear photograph are liable to be rejected. Candidates may keep 6-8 identical photographs in reserve for use at the time of entrance examination/ Counselling/Admission.



RAJ BALA
15.10.2007

- (o) Request for change or correction of any information, once given in the Application Form, shall not be entertained under any circumstances. The Board will not be responsible for any consequences arising out of non-acceptance of any correction/addition/deletion in any particular once filled in the application form whatsoever the reasons may be.

LIST OF CITIES WHERE ALL INDIA ENGINEERING/ ARCHITECTURE ENTRANCE EXAMINATION WILL BE CONDUCTED

NAME OF THE STATE/CITY	CITY CODE	NAME OF THE STATE/CITY	CITY CODE
ANDAMAN & NICOBAR		HARYANA	
PORT BLAIR	201	FARIDABAD	221
ANDHRA PRADESH		HISSAR	222
HYDERABAD	203	KURUKSHETRA	223
VIJAYAWADA	205	HIMACHAL PRADESH	
VISAKHAPATNAM	206	HAMIRPUR	226
WARRANGAL	207	SHIMLA	227
ARUNACHAL PRADESH		JAMMU & KASHMIR	
ITANAGAR	208	JAMMU	228
ASSAM		SRINAGAR	229
GUWAHATI	209	JHARKHAND	
BIHAR		DHANBAD	230
MUZZAFARPUR	212	BOKARO	231
PATNA	213	JAMSHEDPUR	232
CHANDIGARH/PANCHKULA/MOHALI		RANCHI	233
CHANDIGARH/PANCHKULA/MOHALI	214	KARNATAKA	
CHHATTISGARH		BANGALORE	234
RAIPUR	215	HUBLI	236
DELHI		MANGALORE	237
DELHI	216	KERALA	
GOA		ERNAKULAM	238
PANAJI	217	KOZHIKODE	239
GUJARAT		TRIVANDRUM	240
AHMEDABAD	218	MADHYA PRADESH	
SURAT	219	BHOPAL	242
VADODARA	220	GWALIOR	243
		JABALPUR	244

INDORE 245

MAHARASHTRA

NAGPUR 246

MUMBAI 247

PUNE 248

MANIPUR

IMPHAL 249

MEGHALAYA

SHILLONG 250

MIZORAM

AIZWAL 251

NAGALAND

KOHIMA 252

ORISSA

BHUBANESHWAR 253

ROURKELA 255

PUDUCHERRY

PUDUCHERRY 256

PUNJAB

BHATINDA 257

JALANDHAR 258

RAJASTHAN

AJMER 260

JAIPUR 261

JODHPUR 262

UDAIPUR 264

SIKKIM

GANGTOK 265

TAMIL NADU

CHENNAI 266

COIMBATORE 267

MADURAI 268

TRIPURA

AGARTALA 269

UTTARAKHAND

DEHRADUN 271

NAINITAL 273

PANTNAGAR 274

ROORKEE 276

UTTAR PRADESH

AGRA 277

ALLAHABAD 278

BAREILLY 279

KANPUR 280

LUCKNOW 281

NOIDA 282

VARANASI 283

WEST BENGAL

DURGAPUR 284

KOLKATA 285

SILIGURI 286

ABROAD

DUBAI 287

RIYAD 288

A. PROCEDURE TO BE FOLLOWED IN CONDUCT OF AIEEE

1. The examination rooms/hall will be opened 30 minutes before the commencement of the test. Candidates should take their seat immediately after opening of the examination hall. If the candidates do not report in time, they are likely to miss some of the general instructions to be announced in the Examination Hall.
2. The candidate must show, on demand, the Admit Card for admission in the examination rooms/hall. A candidate who does not possess the Admit Card issued by the Board shall not be permitted for the examination under any circumstances by the Centre Superintendent.
3. A seat indicating roll number will be allocated to each candidate. Candidates should find out and occupy their allotted seat only. Any candidate found to have changed room or the seat on his/her own other than allotted, his/her candidature shall be cancelled and no plea would be accepted for it.
4. A candidate who comes after the commencement of the examination shall not be permitted to sit in the examination.
5. **Candidates are not allowed to carry any textual material, Calculators, Docu Pen, Slide Rules, Log Tables, Electronic Watches with facilities of calculator, printed or written material, bits of papers, mobile phone, pager or any other device, except the Admit Card inside the Examination Room/Hall. If any candidate is in possession of any of the above item, his/her candidature will be treated as unfair means and cancel the current examination & also debarred the candidate for future examination(s).**
6. For Aptitude Test in Architecture, candidates are advised to bring their own geometry box set, pencils, erasers and colour pencils or crayons.
7. No candidate, without the special permission of the Centre Superintendent or the Invigilator concerned, will leave his/her seat or Examination Room until the full duration of the paper is over. Candidates should not leave the room/hall without handing over their Answer Sheets to the Invigilator on duty.
8. Candidates are advised to bring with them a cardboard or a clip board on which nothing should be written, so that they have no difficulty in writing responses in the Answer Sheet even if the tables provided in the examination room/hall do not have smooth surface. They should also bring their own Ball Point Pens (Black/Blue) of good quality.
9. Smoking in the Examination Hall/Room is strictly prohibited.
10. Tea, coffee, cold drinks or snacks are not allowed to be taken into the examination rooms during examination hours.
11. Ten minutes before the commencement of the paper, each candidate will be given sealed Test Booklet with an Answer Sheet placed inside it.
12. Immediately on receipt of the Test Booklet the candidates will fill in the required particulars on the cover page of the Test Booklet with Ball Point Pen only. He/She will not open the Test Booklet until asked to do so by the Invigilator. Do not open/break the seal before the announcement.

IMPORTANT INSTRUCTIONS PRIOR TO EXAMINATION

13. Five minutes before the commencement of the paper the candidate will be asked to break/open the seal of the Test Booklet. He/She will take out the Answer Sheet carefully. **The candidate should check carefully that the Test Booklet Code printed on Side-2 of the Answer Sheet is the same as printed on the Test Booklet. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.**
14. Candidate will then write particulars with Blue/Black ball point pen only on both the sides of the Answer Sheet. **Use of pencil is strictly prohibited. If any body use the pencil, his/her answer sheet will be rejected and no correspondence will be entertained in this regard.** After completing this step, the candidates will wait for the signal by the invigilator.
15. The test will start exactly at the time mentioned in the Admit Card and an announcement to this effect will be made by the invigilator.
16. During the examination time, the invigilator will check Admit Card of the candidate to satisfy himself/herself about the identity of each candidate. The invigilator will also put his/her signatures in the place provided in the Answer Sheet on Side-1.
17. Candidate shall bring his/her own Ball Point Pens of good quality. These will not be supplied by the Board.
18. **UNFAIR MEANS :**
Candidates shall maintain perfect silence and attend to their Question Paper only. Any conversation or gesticulation or disturbance in the Examination Room/Hall shall be deemed as misbehaviour. If a candidate is found using unfair means or impersonating, his/her candidature shall be cancelled and he/she will be liable to be debarred for taking examination either permanently or for a specified period according to the nature of offence.
If any candidate is in possession of any item(s) as mentioned in para 5 above, his/her candidature for current examination will be cancelled and also liable to be debarred for future examination(s).

19. After completing the paper and before handing over the Answer Sheet, the candidate should check again that all the particulars required in the Answer Sheet have been correctly written.
20. A signal will be given at the beginning of the examination and at half-time. A signal will also be given before the closing time when the candidate must stop marking the responses.
21. The candidate will check that the Test-booklet contains as many number of pages as are written on the top of the first page of the Test Booklet. The candidate shall not remove any page(s) from the Test-Booklet and if he/she is found to have removed any page(s) from his/her Test Booklet, he/she will be presumed to have used unfair means and shall be liable for criminal action.
22. The candidates must sign twice on the Attendance Sheet at the appropriate place. Firstly, immediately after commencement of the Examination and for the second time while delivering the Answer Sheet. **The candidates are also required to put their left hand thumb impression in the space provided in the Attendance Sheet.**

B. INSTRUCTIONS FOR USE OF TEST BOOKLET AND ANSWER SHEET

1. The candidates will find the Answer Sheet placed inside the sealed Test Booklet. The seal will be broken/ opened by the candidates on the announcement by the invigilator and the Answer Sheet shall be taken out. **Do not open/break the seal before the announcement.**
2. Side –2 of each Answer Sheet will have a pre-printed Test Booklet Code A, B, C or D. The candidates are required to check that the Test Booklet Code pre-printed on Side-2 of the Answer Sheet is the same as printed on the Test Booklet.
3. The Answer Sheet used will be of special type which will be scanned on Optical Scanner. There will be two sides of the Answer Sheet.

Side 1 This side of the Answer Sheet contains the following columns which are to be filled in neatly and accurately by the candidate with **Blue/Black ball point pen only. Use of pencil is strictly prohibited.**

- i) Roll Number
- ii) Name of the candidate
- iii) Father's Name
- iv) Centre Number
- v) Name of the Examination Centre
- vi) Signature of the candidate

Side 2 This side of the Answer Sheet contains the following columns which are also to be filled in by the candidate with **Blue/Black Ball Point Pen only. Use of pencil is strictly prohibited.**

- i) Roll Number
- ii) Centre Number
- iii) Test Booklet Number

WRITING OF PARTICULARS AND RESPONSES ON SIDE –2 WITH BLUE/BLACK BALL POINT PEN ONLY WILL BE FILLED UP AS FOLLOWS:

<p>If your Roll No. is 02140640, fill in as below :</p> <p style="text-align: center;">Roll No.</p> <table border="1" style="width: 100%; text-align: center;"> <tr><td>0</td><td>2</td><td>1</td><td>4</td><td>0</td><td>6</td><td>4</td><td>0</td></tr> <tr><td>①</td><td>①</td><td>●</td><td>①</td><td>①</td><td>①</td><td>①</td><td>①</td></tr> <tr><td>②</td><td>●</td><td>②</td><td>②</td><td>②</td><td>②</td><td>②</td><td>②</td></tr> <tr><td>③</td><td>③</td><td>③</td><td>③</td><td>③</td><td>③</td><td>③</td><td>③</td></tr> <tr><td>④</td><td>④</td><td>④</td><td>●</td><td>④</td><td>④</td><td>●</td><td>④</td></tr> <tr><td>⑤</td><td>⑤</td><td>⑤</td><td>⑤</td><td>⑤</td><td>⑤</td><td>⑤</td><td>⑤</td></tr> <tr><td>⑥</td><td>⑥</td><td>⑥</td><td>⑥</td><td>⑥</td><td>●</td><td>⑥</td><td>⑥</td></tr> <tr><td>⑦</td><td>⑦</td><td>⑦</td><td>⑦</td><td>⑦</td><td>⑦</td><td>⑦</td><td>⑦</td></tr> <tr><td>⑧</td><td>⑧</td><td>⑧</td><td>⑧</td><td>⑧</td><td>⑧</td><td>⑧</td><td>⑧</td></tr> <tr><td>⑨</td><td>⑨</td><td>⑨</td><td>⑨</td><td>⑨</td><td>⑨</td><td>⑨</td><td>⑨</td></tr> <tr><td>●</td><td>0</td><td>0</td><td>0</td><td>●</td><td>0</td><td>0</td><td>●</td></tr> </table>	0	2	1	4	0	6	4	0	①	①	●	①	①	①	①	①	②	●	②	②	②	②	②	②	③	③	③	③	③	③	③	③	④	④	④	●	④	④	●	④	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑤	⑥	⑥	⑥	⑥	⑥	●	⑥	⑥	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑦	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑧	⑨	⑨	⑨	⑨	⑨	⑨	⑨	⑨	●	0	0	0	●	0	0	●	<p>If your Centre No. is 02394, fill in as below:</p> <p style="text-align: center;">Centre No.</p> <table border="1" style="width: 100%; text-align: center;"> <tr><td>0</td><td>2</td><td>3</td><td>9</td><td>4</td></tr> <tr><td>①</td><td>①</td><td>①</td><td>①</td><td>①</td></tr> <tr><td>②</td><td>●</td><td>②</td><td>②</td><td>②</td></tr> <tr><td>③</td><td>③</td><td>●</td><td>③</td><td>③</td></tr> <tr><td>④</td><td>④</td><td>④</td><td>④</td><td>●</td></tr> <tr><td>⑤</td><td>⑤</td><td>⑤</td><td>⑤</td><td>⑤</td></tr> <tr><td>⑥</td><td>⑥</td><td>⑥</td><td>⑥</td><td>⑥</td></tr> <tr><td>⑦</td><td>⑦</td><td>⑦</td><td>⑦</td><td>⑦</td></tr> <tr><td>⑧</td><td>⑧</td><td>⑧</td><td>⑧</td><td>⑧</td></tr> <tr><td>⑨</td><td>⑨</td><td>⑨</td><td>●</td><td>⑨</td></tr> <tr><td>●</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> </table>	0	2	3	9	4	①	①	①	①	①	②	●	②	②	②	③	③	●	③	③	④	④	④	④	●	⑤	⑤	⑤	⑤	⑤	⑥	⑥	⑥	⑥	⑥	⑦	⑦	⑦	⑦	⑦	⑧	⑧	⑧	⑧	⑧	⑨	⑨	⑨	●	⑨	●	0	0	0	0	<p>If your Test Booklet No. is 020456, fill in as below:</p> <p style="text-align: center;">Test Booklet No.</p> <table border="1" style="width: 100%; text-align: center;"> <tr><td>0</td><td>2</td><td>0</td><td>4</td><td>5</td><td>6</td></tr> <tr><td>①</td><td>①</td><td>①</td><td>①</td><td>①</td><td>①</td></tr> <tr><td>②</td><td>●</td><td>②</td><td>②</td><td>②</td><td>②</td></tr> <tr><td>③</td><td>③</td><td>③</td><td>③</td><td>③</td><td>③</td></tr> <tr><td>④</td><td>④</td><td>④</td><td>●</td><td>④</td><td>④</td></tr> <tr><td>⑤</td><td>⑤</td><td>⑤</td><td>⑤</td><td>●</td><td>⑤</td></tr> <tr><td>⑥</td><td>⑥</td><td>⑥</td><td>⑥</td><td>⑥</td><td>●</td></tr> <tr><td>⑦</td><td>⑦</td><td>⑦</td><td>⑦</td><td>⑦</td><td>⑦</td></tr> <tr><td>⑧</td><td>⑧</td><td>⑧</td><td>⑧</td><td>⑧</td><td>⑧</td></tr> <tr><td>⑨</td><td>⑨</td><td>⑨</td><td>⑨</td><td>⑨</td><td>⑨</td></tr> <tr><td>●</td><td>0</td><td>●</td><td>0</td><td>0</td><td>0</td></tr> </table>	0	2	0	4	5	6	①	①	①	①	①	①	②	●	②	②	②	②	③	③	③	③	③	③	④	④	④	●	④	④	⑤	⑤	⑤	⑤	●	⑤	⑥	⑥	⑥	⑥	⑥	●	⑦	⑦	⑦	⑦	⑦	⑦	⑧	⑧	⑧	⑧	⑧	⑧	⑨	⑨	⑨	⑨	⑨	⑨	●	0	●	0	0	0	<p>IMPORTANT The candidate should check carefully that the Test Booklet Code printed on Side-2 of the Answer Sheet is the same as printed on Test Booklet. In case of discrepancy, the candidate should immediately report the matter to the invigilator for replacement of both the Test Booklet and the Answer Sheet</p> <p>If your Response to Question Number 008 is (1), Please mark as below:</p> <table style="width: 100%; text-align: center;"> <tr> <td style="width: 50%;">Q. No. 008</td> <td style="width: 50%;">Response</td> </tr> <tr> <td></td> <td>● ② ③ ④</td> </tr> </table>	Q. No. 008	Response		● ② ③ ④
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IMPORTANT INSTRUCTIONS FOR MARKING THE RESPONSES

- i) Out of four alternatives for each question, only one circle for the correct answer is to be darkened completely with blue/black Ball Point Pen. For example Question No. 008 in the Test Booklet reads as follows:
Qutub Minar is situated in
 - (1) Delhi
 - (2) Mumbai
 - (3) Agra
 - (4) Bangalore

The correct response to this question is (1) Delhi. The candidate will locate Question No. 008 in the Answer Sheet and darken the circle (1) as shown below:

008 ● (2) (3) (4)

- ii) Use Blue or Black Ball Point Pen to completely darken the appropriate circle, i.e. one circle for each entry. The answer once marked is not liable to be changed. Use of pencil is strictly prohibited. If any candidate use the pencil for darkening the answer sheet, his/her answer sheet will be rejected.
- iii) A light or faintly darkened circle is a wrong method of marking and liable to be rejected by the Optical Scanner.
- iv) If the candidate does not want to attempt any question he/she should not darken the circle given against that question.
- v) Please do not fold the Answer Sheet and do not make any stray marks on it.

4. **ROUGH WORK**

The candidate will not do any rough work on the Answer Sheet. All rough work is to be done in the Test Booklet itself.

5. **CHANGING AN ANSWER IS NOT ALLOWED**

The candidates must fully satisfy themselves about the accuracy of the answer before darkening the appropriate circle as no change in answer once marked is allowed. Use of eraser or white/correction fluid on the Answer Sheet is not permissible as the Answer Sheets are machine gradable and it may lead to wrong evaluation.

Wrong/Correct way of marking

Wrong Method	Correct Method
021 ●✓ ●✗ (3) (4)	021 ● (2) (3) (4)
022 (1) ●✓ (3) (4)	022 (1) ● (3) (4)
023 (1) (2) ●✓ ●	023 (1) (2) ● (4)
024 (1) (2) (3) ●◐	024 (1) (2) (3) ●
025 ● ●✗ (3) (4)	025 ● (2) (3) (4)
026 (1) (2) ●✗ (4)	026 (1) (2) ● (4)
027 (1) (2) ●• (4)	027 (1) (2) ● (4)
028 (1) ●• (3) ●	028 (1) (2) (3) ●

If more than one circle is darkened or if the response is marked in any other manner or as shown in 'Wrong Method' above, it shall be treated as wrong way of marking.

- 6. Prior to handing over the Answer Sheet soon after the examination is over, the candidate must sign the attendance sheet as a proof thereof. **The examinee is permitted to carry the Text Booklet,**

WARNING

1. PERSONS REMOVING PAGES FROM THE TEST-BOOKLET DURING EXAMINATION, IMPERSONATING OR TRYING TO APPEAR IN THE COUNSELLING THROUGH FORGED MEANS WILL BE DEALT WITH AS PER LAW.
2. CANVASSING DIRECTLY OR INDIRECTLY FOR THE ALLOTMENT OF SEATS OR INFLUENCING STAFF BY UNFAIR MEANS WOULD LEAD TO SERIOUS CONSEQUENCES INCLUDING DISQUALIFICATION OF THE CANDIDATES.

LIST OF QUALIFYING EXAMINATIONS

- i) The +2 level examination in the 10+2 pattern of examination of any recognized Central/State Board of Secondary Examination, such as Central Board of Secondary Education, New Delhi, and Council for Indian School Certificate Examination, New Delhi
- ii) Intermediate or two-year Pre-University Examination conducted by a recognized Board/University.
- iii) Final Examination of the two-year course of the Joint Services Wing of the National Defence Academy.
- iv) Any Public School/Board/University Examination in India or in foreign countries recognized by the Association of Indian Universities as equivalent to 10+2 system.
- v) H.S.C. Vocational Examination.
- vi) A pass grade in the Senior Secondary School Examination conducted by the National Open School with a minimum of five subjects.
- vii) 3 or 4-year diploma recognized by AICTE or a State Board of Technical Education.

IMPORTANT NOTES

1. **Candidates can apply for AIEEE 2008 either on the prescribed Application Form or make application 'Online'.**
 2. **For submission of application on prescribed form :**
 - Information Bulletin containing Application Form can be had by post from the CBSE or personally from Regional Offices of CBSE, Designated Institutions and the Designated Branches of Syndicate Bank and other Banks specified in Appendix IV.
 - Candidates must follow instructions strictly as given in the Information Bulletin. Candidates not complying with the instructions shall be summarily disqualified.
 - Candidates must keep a photocopy of the Application Form for use as reference for future correspondence.
 - Please ensure before mailing the application that:-
 - o **the candidate has signed the Form at two specified places;**
 - o **the application bears signature of the Father/Guardian**
 - o recent passport size two photographs taken on or after 1st September, 2007, one pasted in the space marked for it and one duly attested by the Principal/Head of institution where the candidate is studying in class XII/Passed XII or by Gazetted officer.
 - o candidate appearing for both the courses of B.E/B. Tech and B. Arch/B. Planning together and candidates opted centre in foreign country, have to pay additional payment as per clause 8.3 of this booklet.
 - o the application is dispatched by Registered/Speed Post in the enclosed CBSE envelope only;
 - o the left hand thumb impression of the candidate to be affixed at the prescribed column.
 - o **the Application Form sent by courier shall not be accepted and rejected.**
 - o **the Application Form sent/dispatched through the coaching centre will not be accepted and rejected.**
 - o **the use of address of any coaching centre/coaching institution is strictly prohibited, if any body use the address of any coaching centre/institution his/her application form will be rejected.**
 3. **For submission of application "Online" at www.aieee.nic.in"**
 - Online submission of application with photograph and signature on Computer Printed Form generated and down loaded from the website www.aieee.nic.in and to be sent by Registered/Speed Post (**NOT BY COURIER**) to CBSE and payment made by Demand Draft in favour of the Secretary, CBSE, payable at Delhi.
 - Candidates submitting applications online are required:
 - o to mention his/her Registration No., Name and Address on the back of the Pay Order/Demand Draft
 - o to retain a photocopy of computer printed Form to serve as reference for future correspondence, and
 - o to retain a photo copy of the Bank Draft sent.
 4. Information regarding receipt of applications in the AIEEE Unit of the CBSE will be put on the website www.aieee.nic.in. The candidates can check the receipt of their Application Number on the website after 45 days of dispatch of Application to the CBSE. Candidates whose particulars do not appear on the website may write to the AIEEE Unit, and forward a photocopy of the Application Form, the Demand Draft and two passport size photographs (as pasted on the Application Form).
 5. In case the Admit Card is not received by 10th April, 2008 the candidates should write/contact the CBSE between 10th April, 2008 to 21st April, 2008 giving details of the Post Office, date of dispatch, original receipt of postal dispatch, photostat copy of the Application Form, two photographs (as pasted on the Application Form one is duly attested as mentioned in para 2 above), and proof regarding remittance of fee who have submitted application "Online".
 6. Candidate must preserve the Admit Card till the admission process is over. Request for issue of duplicate Admit Card will not be entertained after the examination in any case.
 7. For latest updates, please check AIEEE website: www.aieee.nic.in
- AIEEE INFORMATION BULLETIN INCLUDES EXAMINATION FEE OF RS. 300/- FOR B.E/B. TECH ONLY OR B. ARCH/B. PLANNING ONLY FOR GENERAL CATEGORY AND RS. 150/- FOR SCHEDULED CASTE AND SCHEDULED TRIBE CANDIDATES. FOR APPEARING B.E/B. TECH AND B. ARCH/B. PLANNING (BOTH) AND OPTED EXAMINATION CENTRE IN FOREIGN COUNTRY PLEASE REFER TO CLAUSE 8.3 FOR ADDITIONAL FEE.**

Address for obtaining/sending complete Application Form and clarification, if any :-

The Assistant Secretary (AIEEE Unit),
Central Board of Secondary Education,
PS 1-2 Institutional Area
IP Extension, Patparganj
Delhi-110092.

Telephone : 011-22239177-80
Extn. 110, 151 & 157
011-22246087

Fax : 011-22246095

PATTERN
SUBJECT COMBINATIONS IN QUALIFYING EXAMINATIONS

Course	Compulsory Subjects	Any One of the Optional Subjects
B.E./B.Tech.*	Physics & Mathematics	Chemistry Bio-technology Computer Science Biology
B. Arch./B. Planning**	Mathematics with 50% marks in aggregate at 10 + 2 level	

* This is as per decision of the All India Council for Technical Education (AICTE).

** Provisionally as per the orders of the Ho'ble High Court of Delhi and directive received from the Ministry of Human Resource Development.

SUBJECT COMBINATIONS / TYPES OF QUESTIONS AND TOTAL MARKS

Paper	Subjects	Types of Questions
Paper 1	Physics , Chemistry & Mathematics	Objective Type Questions with equal weightage to Physics, Chemistry & Mathematics
Paper 2	Mathematics – Part I Aptitude Test – Part II & Drawing Test – Part III	Objective Type Questions Objective Type Questions Two Questions to test drawing aptitude

REQUIREMENT OF PAPERS / APTITUDE TEST

Course	Papers
B.E. / B. Tech.	Paper – 1
B. Arch. / B. Planning	Paper – 2

TIME SCHEDULE

	Paper 1	Paper 2
DATES OF EXAMINATION	27.04.2008	27.04.2008
a) Entry in the Examination Hall	0900 HRS.	1330 HRS.
b) Distribution of Test Booklet	0920 HRS.	1350 HRS.
c) Seal of the Test Booklet to be broken/opened to take out the Answer Sheet	0925 HRS.	1355 HRS.
d) Last entry in the Examination Hall	0930 HRS.	1400 HRS.
e) Test commences	0930 HRS.	1400 HRS.
f) Test concludes	1230 HRS.	1700 HRS.

IMPORTANT INFORMATION FOR AIEEE 2008 AT A GLANCE

1	a. Date of Examination	27.04.2008	
	b. Sale of AIEEE Information Bulletin containing Application Form	30.11.2007 to 05.01.2008	
	c. Online submission of application on website www.aieee.nic.in	30.11.2007 to 05.01.2008	
2.	Last date for		
	a. Receipt of request for Information Bulletin and Application Form by Post at AIEEE Unit, CBSE, PS 1-2, Institutional Area, . IP Extension, Patparganj, Delhi – 110092	15.12.2007	
	b. Sale of Information Bulletin at designated branches of Syndicate Bank, Regional Offices of the CBSE and designated institutions	05.01.2008	
	c. Online submission of applications	05.01.2008	
	d. Receipt of complete applications “by post” including Registration Forms with Bank Draft at AIEEE Unit, CBSE, PS 1-2, Institutional Area, IP Extension, Patparganj, Delhi – 110092	10.01.2008	
3.	Date of dispatch of Admit Card	10.03.2008 to 31.03.2008	
4.	Issue/dispatch of duplicate Admit Card (on request only with fee of Rs. 50/- + postal charges of Rs. 30/- extra for out station candidate.	10.04.2008 to 27.04.2008 (by hand) 10.04.2008 to 21.04.2008 (by post)	
5.	Dates of Examination	PAPER – 1 27.04.2008	0930-1230 hrs
		PAPER – 2 27.04.2008	1400-1700 hrs
6.	Centre of Examination	As indicated on the Admit Card	
7.	Declaration of Results	On or before 07.06.2008	
8.	Dispatch of Score Cards	12.06.2008 to 28.06.2008	
9.	Issue/Dispatch of duplicate score cards (on request only with fee of Rs. 50/- . Postal charges of Rs. 30/- extra for outstation candidate)	09.07.2008 to 30.08.2008	
10.	Materials to be brought on the day of examination	Admit Card and Ball Point Pen of good quality. For Aptitude Test in Architecture, the candidates are advised to bring their own Card Board, geometry box set, pencils, erasers and colour pencils or crayons.	
11.	Rough work	All rough work is to be done in the Test Booklet only. The candidate should NOT do any rough work or put stray mark on the Answer Sheet.	

