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DMAT - 2010

**ALL INDIA COMMON ENTRANCE TEST
FOR
ADMISSION TO DENTAL, MEDICAL,
BPT, NURSING AND OTHER ALLIED
PARAMEDICAL COURSES
IN PRIVATE
COLLEGES OF MADHYA PRADESH**

**Association of Private Dental and Medical Colleges of
Madhya Pradesh**

DMAT – OFFICE

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Bhopal -462016 (M.P.)
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Websites : (1). www.apdmcmp.com
(2). www.peoplesgroup.in
(3). www.saimsonline.com
(4). www.rdgmc.com
(5). www.indexgroup.co.in
(6). www.lnmcbbhopal.com

ALL INDIA COMMON ENTRANCE TEST - 2010

(FOR DENTAL, MEDICAL, BPT, NURSING AND OTHER ALLIED PARAMEDICAL COURSES IN PRIVATE COLLEGES OF M.P.)

In pursuance of the judgement of the Hon'ble Supreme Court of India, in the case P.A. Inamdar Vs State of Maharashtra and others 2005 (6) SCC 537, Private & Medical Colleges are holding a Common Entrance Test. Therefore at this stage admissions to all the seats in the Private Dental and Medical Colleges of Madhya Pradesh will be done as per DMAT-2010 merit only.

Further to this admissions in Private Dental and Medical Colleges of M.P. will be done in compliance of Hon'ble Supreme Court of India interim order in SLP(C) No. 13111, Dated: - 27/05/2009 and C.A. No. 4060/2009 dated 26/03/2010 where in the seats of Private Dental and Medical Colleges will be filled up as the part of judgement reads as below:-

"We, therefore, direct that the admissions in the Private unaided Medical / Dental Colleges in the State of Madhya Pradesh will be done by first excluding 15% N.R.I. seats (which can be filled up by the private institutions as per Para 131 of Inamdar's case), and allotting half of the 85% seats for admission to the undergraduate and post graduate courses to be filled in by an open competitive examination by the State Government, and the remaining half by the Association of the Private Medical and Dental Colleges. Both the State Government as well as the Association of Private Medical and Dental Colleges will hold their own separate entrance examination for this purpose. As regards the 'N.R.I. Seats', they will be filled as provided under the Act and Rules, in the manner they were done earlier".

1. PREAMBLE

- The "Association of Private Dental and Medical Colleges of Madhya Pradesh"(APDMC), hereinafter referred to as the 'Association' was established and registered under the Societies Regulation Act 1973 at Indore vide Regn. No. IND/7448 dated 23/02/2004. The Association is the Representative Body of 16 Private Unaided Dental and Medical Colleges of Madhya Pradesh.
- In compliance of the directions of Hon'ble Apex Court, the Association has taken a decision to hold a common Entrance Test DMAT- 2010, which will be conducted by the Association for admissions in Private Dental and Medical Colleges of Madhya Pradesh.
- Association will also conduct Entrance Test for admission to BPT, Nursing and other Allied Paramedical Courses.
- The brochure for DMAT 2010 contains Application Form for the Common Entrance Test DMAT – 2010. It also contains Rules for admission and information about courses and colleges. These Rules are applicable only for the Academic Year 2010-11.

2. ADMISSION COMMITTEE

The Admission Committee will consist of 5 members nominated by the Association. The Committee will supervise the conduct of DMAT-2010 Entrance Examination, the preparation and declaration of the result, conduct of counselling and allotment of courses and colleges.

- The Admission Committee will issue necessary instructions for implementation of these rules and provide informations to be published and communicated.
- The results of DMAT-2010 will be declared only after due approval of Admission Committee.
- The Admission Committee shall decide on all representations, queries, complaints etc. of the candidates and the decision of the committee shall be final and binding.

- **DMAT – 2010 shall be conducted under the guidance and supervision of Admission and Fee Regulatory Committee for Professional Institutions.**

3. CONDUCT OF COMMON ENTRANCE TEST DMAT - 2010

Candidates should go through the contents of this brochure carefully and for any clarification and genuine doubts / difficulties, approach to the Admission Committee. Further information if any required about the entrance test, will be uploaded and available regularly on the Association and on Member Colleges websites given on front page of Information Brochure.

COURSES

| S. No. | Name of Courses | Courses Group | Courses |
|---------------|----------------------------------|----------------------|----------------|
| 1 | MBBS | 01 | 001 |
| 2 | BDS | 02 | 002 |
| 4 | BPT | 03 | 003 |
| 5 | Nursing | 04 | 004 |
| 6 | Other Allied Paramedical Courses | 05 | 005 |

NOTE :

CANDIDATES APPEARING FOR DMAT - 2010 ARE ELIGIBLE FOR ANY COURSE AVAILABLE IN THE COUNSELLING IF QUALIFY FOR THAT COURSE, WHETHER OPTED OR NOT.

DMAT-2010 TEST WILL BE CONDUCTED AT THE FOLLOWING CENTRES:-

CENTRE :

CENTRE CODE:

| | | |
|-----------|---|----|
| AHMEDABAD | - | 01 |
| BHOPAL | - | 02 |
| DELHI | - | 03 |
| GWALIOR | - | 04 |
| INDORE | - | 05 |
| JABALPUR | - | 06 |
| JAIPUR | - | 07 |
| LUCKNOW | - | 08 |
| RAIPUR | - | 09 |
| REWA | - | 10 |
| UJJAIN | - | 11 |

If due to unforeseen circumstances during the conduct of DMAT-2010 at the center (s) and in the contingencies like incidence of mass copying, leakage of Question paper, entrance of unauthorized persons in the examination center/hall, natural calamities, riots, etc. the Admission Committee may cancel the examination at such or all center(s) such cancelled examination would be re-conducted on a later date at the earliest which shall further notify on the website. The fresh programme for conduct of DMAT – 2010 at such centre(s) only.

Note:

1. **The Association reserves the right to add or delete the Test Centre(s).**
2. **Syllabus for the DMAT-2010 (Annex– B) will be same as that of class XII of CBSE or of 10+2 of Madhya Pradesh State Board of the academic year 2009-10 or equivalent examination, for Physics, Chemistry and Biology. Syllabus is also available on the website of the Association.**

4. AVAILABILITY OF APPLICATION FORMS AND BROCHURES

- Application Forms for entrance examination will be available at the selected branches of **State Bank of India on payment of Rs. 750/- (Rs. Seven hundred fifty only) through cash.**
- Application Forms are also available at all participating colleges/ Association Office on payment of Rs. 750/- (Rs. Seven hundred fifty only) through cash/ demand draft in favour of APDMC payable at Bhopal.
- Application Forms can also be obtained from the Association Office/Participating Colleges by post by remitting a DD of Rs. 850/- (including postal charges). Application Form can also be downloaded from our websites. In case the application form has been downloaded from website it shall be submitted alongwith Demand Draft of Rs. 1500/- (for MBBS / BDS Courses) and (Rs. 750/- for other Courses) drawn in favour of APDMC, payable at Bhopal.

Before filling the application form the candidate must familiarize himself/herself with the information given in this brochure and shall satisfy his/her eligibility to appear in the examination. The candidate is required to go through the information brochure carefully and acquaint himself/herself with all requirements with regard to the filling-in of the Application Form. Application Form will be filled by **Black or Blue Hi-Tech point type Pen in English only.**

Overwriting, cuttings, erasing in the Application Form may lead to rejection of the Form and should be avoided. Any error arising on this account shall be the responsibility of the candidate. (It is advisable to first fill in a photocopy of the form and then fill in the main document.) Candidate should write his/her complete address in the application form for further correspondence. Pin Code should be given in the space provided for Pin Code. **Candidates are also advised to keep photocopy of Application Form in his/her record.**

- The Application Forms complete in all respect should be submitted to the Controller of Examinations, DMAT OFFICE, E-2/51, Arera Colony, Near Niramay Hospital, Opp. Habibganj Railway Station, BHOPAL 462016 by Registered / Speed Post/Courier/in person with Examination Fee of Rs. 750/- by Demand Draft drawn in favour of APDMC, payable at Bhopal. **Candidates depositing Application Form in person can also deposit Examination Fee by cash in DMAT Office and obtain necessary receipt latest by 03/06/2010 and 10/06/2010 with late fees of Rs. 200/-.**

Note: Candidates applying for BPT/B.Sc. Nursing and other Paramedical Courses are not required to send the examination fee draft of Rs. 750/- alongwith Application Form.

- The application is required to be duly returned in the envelope provided alongwith the Application Form.

- Candidate shall write Name and Application Form Number on the back of Demand Draft.
- Incomplete Application Forms will be rejected.

5. INSTRUCTIONS FOR FILLING COMPUTERIZED APPLICATION FORM.

Note: Form should be filled by the candidate in his/her own handwriting. It is suggested that candidate make a photocopy of the Form and use that for practice. Please fill the form with great care, **request for corrections will not be entertained at any stage, incomplete filled Application Forms will be rejected without any notice.** Candidates should read all the instructions carefully and fill the Form with utmost clarity. They should use **Black or Blue Hi-Tech point type Pen only.** Fill the Form in English using **CAPITAL LETTERS only.**

- 5.1 **Sex:** Tick the appropriate Column Male or Female in the box provided.
- 5.2 **Date of Birth of Candidate:** In the first column two boxes are provided; write the date in the boxes. Thereafter Two box are provided, write the month (if born in Jan write 01) and in the third column two boxes are given. Write the year (if born in year 1991 write 9 and 1).
- 5.3 **Choice of Centres:** Pick up the choice of the two centres in order of preference and write Centre Code No. **FIRST & SECOND** choice.
- 5.4 A recent colour high contrast 3.5 cm. x 4.5 cm. size photograph is required. Only photograph of the front profile with full face, head, shoulder and with both ears visible and taken without wearing any cap or hat or sunglasses will only be accepted. Polaroid photo is NOT acceptable. Photograph must be taken on or after **1st Jan, 2010** with a playcard indicating the name of the candidate (as in the application form) and the date of taking photograph.
- In case name and date are written on the photograph after taking it, the application will be rejected.**
- The name and date on the photograph must be clear and legible.
- Photograph should be pasted in such a manner that full profile or head, face and shoulder lies entirely inside the box and no where else. **Do not use pin/staple to fix the photograph. Do not attest or sign the photograph.**
- 5.5 **Thumb Impression:** - Apply your left thumb impression using **RED STAMP PAD** ink in the space provided in application form. Allow the ink to get complete dry.
- 5.6 Mailing address should be clearly written entirely inside the box. Write your name, followed by the address and finally PIN code. Write name and address in capital letters only.
- 5.7 Signature should be made by the Candidate himself/herself entirely inside the box.
- 5.8 If you have contact telephone numbers please fill in the boxes.
- 5.9 **Name of Parent/Guardian:** Write first name, then middle name (abbreviate if necessary) then surname in the boxes provided. Leave a box blank between names.
- 5.10 Course Group No such as 01 for MBBS as 02 for BDS and so on as given in Para- 3 above should be entered in appropriate box.
- 5.11 Course Code such as 001 for MBBS as 002 for BDS and so on should be filled in box for Courses

NOTE :

- (a) All the particulars in the Application Form must be written carefully and legibly by the candidate in his/her own hand writing.
- (b) Do not tamper the Bar code of Application Form. Any attempt will lead to rejection of Form.
- (d) Any attempt on the part of a candidate to influence the authorities, directly or indirectly will be treated as disqualification of candidature for admission.
- (e) The candidates are advised to keep the photocopy of application form (of both sides). If any candidate demand photocopy of application form it will be provided by DMAT office on payment of **Rs.200/-**

6. FOR FUTURE CORRESPONDENCE:

- (a) Mention your address for communication in the appropriate column.
- (b) Thereafter no change will be permitted and the candidate will have to make his/her arrangement for receiving the mail on that address or redirecting of the mail.
- (c) The APDMC shall not take any responsibility for non- delivery of any communication on above account.
- (d) Always mention your **Application Form Number** as printed on top left hand corner of the Form. After the allotment of Roll Number the candidate should mention the Roll Number in all the correspondence.

7. ELIGIBILITY

(A). MINIMUM EDUCATIONAL QUALIFICATION

For admission to MBBS/BDS Courses, those candidates who have passed the qualifying examination of 10+2 from Board of Secondary Education M.P. or CBSE having passed in Physics, Chemistry and Biology subjects individually and have secured at least minimum 50% marks in Physics, Chemistry and Biology combined together and must have passed in English also.

OR

Those who have passed any equivalent or higher examination with the aforesaid subjects from any other recognized Board, University with the percentage of marks as mentioned above.

OR

Any other qualification recognized by Govt. of India/Medical Council of India/Dental Council of India as recognized qualification for admission to MBBS/BDS Courses.

(B). MINIMUM EDUCATIONAL QUALIFICATION FOR :

(BPT/NURSING/OTHER ALLIED PARA MEDICAL COURSES)

For admission to BPT, Nursing, and other Allied Paramedical Courses those candidates who have passed the qualifying Examination of 10+2 from Board Secondary Education M.P. or C.B.S.E. having passed in Physics, Chemistry and Biology subject individually are eligible for admission. For admission to Nursing Courses candidate must have passed in English also.

OR

Those who have passed any equivalent or higher examination with above said subjects from any other recognized Board/ University.

OR

Any other qualification recognized by relevant Council of India as recognized qualification for admission to above Courses.

- No rounding off of the marks secured by the candidates in 10+2 or equivalent Examination will be done in individual subjects of final total, while converting marks of the individual subjects out of 100 or total marks out of 200. For example, If the total of the marks in four subjects comes to 99 out of 200 percentage comes to 49.50 that will not qualify the candidate.
- The candidates who are appearing for the qualifying examination i.e. 10+2 or equivalent in March/April 2010 are also eligible to appear for DMAT- 2010 provided they must fulfill the eligibility conditions.
- If the marks of a candidate at XII or 10+2 (or equivalent) examination have been revised after revaluation, the eligibility of the candidate may be altered. The candidate will be permitted to avail the benefit of revised marks subject to his/her representation to the Admission Committee and production of necessary proof to the satisfaction of the Admission Committee. The candidates must note that the Admission Committee will not be responsible for late declaration of result of such re-evaluation or late submissions of proof due to any reasons whatsoever and request to consider/reconsider the claim of the candidate arising out of such re-evaluation shall not be entertained. Candidates have to furnish all proofs before the publication of merit list.
- Candidates who have failed in subject and got supplementary is also eligible provided he/she submit the result of passing on or before 30/09/2010.

8. SCHEDULE OF DMAT - 2010

| | |
|-----------------------------|---|
| Date of Examination: | 13th June , 2010 (Sunday) |
| Time: | 09.00 am – 12.00 noon |
| Subjects: | Physics, Chemistry, Botany & Zoology |

9. MARKING THE ANSWER SHEET

The DMAT-2010 will consist of one common question paper of 3 hours duration in the subjects of Physics, Chemistry, Biology (Botany and Zoology) consisting of 200 multiple choice questions where subject wise distribution will be as under:

| | |
|------------------|---------------------|
| Physics | 50 Questions |
| Chemistry | 50 Questions |
| Botany | 50 Questions |
| Zoology | 50 Questions |

All questions are compulsory hence the candidate is expected to attempt all the questions. Out of four bubbles provided against each question on the answer sheet; the candidates will have to darken only one bubble by using **Black Ball Point Pen**. For each correct answer one mark will be awarded. There

shall be no negative marking for wrong answers, scratching, overwriting, tick marks, erasers, whiteners and multiple answers and use of any pencil, pen other than **Black Ball Point Pen** will be awarded no marks.

The candidate should use Black Ball Point Pen only to fill the OMR Answer Sheet.

10. DURATION AND MEDIUM OF EXAMINATION

Duration of examination will be of 3 hours. The medium of the test shall be English and Hindi only.

11. AWARD OF MARKS IN LIEU OF CANCELLED/DEFECTIVE QUESTIONS:

After the completion of test, the Admission Committee will get each question on the question paper examined by "**subject-experts**" alongwith the answers suggested by the paper-setter and moderator. If any question is found to be defective by these experts, then it will be cancelled.

Question can be cancelled due to following reasons;

- i) Wrong structuring of the question.
- ii) More than one option being correct.
- iii) None of the option being correct.
- iv) Any printing error leading to a situation where more than one answer may be correct or none of the answers may be correct.

In lieu of such cancelled questions, every candidate will be awarded extra marks in proportion to the marks obtained by him/her, irrespective of the fact whether the candidate had attempted such cancelled questions or not.

The answers prepared by the "**subject experts**" shall be final and binding.

12. ADMIT CARD

Candidate will receive the Admit Card **by UPC** (Under Postal Certificate). In case the candidate does not receive Admit Card by then he/she should download the copy of the Admit Card from the official website of **APDMC** using the six digit Application Form Number.

- No candidate will be allowed to appear for DMAT-2010 unless he/she holds valid admit card issued by the Controller of Examinations, DMAT.
- The candidate is required to preserve the Admit Card for all future reference and correspondence.
- However, he/she can obtain the duplicate admit card from the Coordinating Centre(s) of the respective city on payment of **Rs. 200/-** in cash.

13. AGE LIMIT

No candidate shall be admitted to a Medical/Dental College / BPT/Nursing and other Allied Courses until he/she has completed or will complete the age of 17 years on or before 31st December 2010.

14. EXPLANATION

For reckoning the age as aforesaid the date of birth as mentioned in the certificate of Higher Secondary School Certificate Examination or the mark sheet of the said examination or an equivalent examination of a recognized Board/ University shall be deemed to authentic.

15. NRI SEATS

(A). Minimum Educational Qualification [Dental / Medical Colleges]

The candidates seeking admission against NRI quota seats should have passed the qualifying examination of 10+2 from Board of Secondary Education M.P. or CBSE having passed in Physics, Chemistry and Biology subjects individually and have secured at least minimum 50% marks in Physics, Chemistry and Biology combined together and must have passed in English also.

OR

Those who have passed any equivalent or higher examination with the aforesaid subjects from any other recognized Board, University with the percentage of marks as mentioned above.

OR

Any equivalent examination 10+2, M.P. Board of Secondary Education/CBSE/Qualifying examination outside India recognized by Medical Council of India/Dental Council of India for admission to MBBS/BDS course.

(B). Minimum Education Qualification :

(BPT/NURSING/OTHER ALLIED PARAMEDICAL COURSES)

As mentioned in Para -7 (B)

16. HOW TO APPLY

The NRI candidates shall apply directly to the Head of the concerned Institution in the application form prescribed by the Institution. **Eligible Candidates may contact the Head of the Institution regarding their admission against NRI Seats. NRI candidates are not required to appear in DMAT - 2010.**

The screening of the applications shall be done at the institution level. The admissions shall be done on the basis of merit list prepared from the applications received. If the seats are not filled under NRI quota then such seats shall be filled as drop out / vacant seats through DMAT-2010 Merit. In such case college shall inform the detail of vacant seats in **writing by 22-09-2010** (for admission through DMAT - 2010 to the office of the Admission & Fees Regulatory Committee for Professional Institution as well as to APDMC office) so that remaining seats can be filled through DMAT Merit, **before the last date of admission i.e. 30th Sept. 2010.**

Fees: The annual proposed fee for the NRI candidates will be as mentioned below:

| S. No | Courses | Annual Fees |
|-------|---------------|-------------|
| 1. | MBBS | 15000 US\$ |
| 2. | BDS | 10000 US\$ |
| 3. | BPT | 3000 US \$ |
| 4. | B.SC. NURSING | 3000 US \$ |

17. SEATS AVAILABLE

The Distribution of seats for MBBS/BDS courses to be filled through DMAT-2010 are given below:-

MEDICAL COLLEGES

| S. No. | Name of the Institution | Course | Total No. Seats | N.R.I | DMAT | STATE QUOTA |
|--------|--|--------|-----------------|-----------|------------|-------------|
| 1. | People's College of Medical Sciences & RC, Bhopal | MBBS | 150 | 23 | 64 | 63 |
| 2. | Sri Aurbindo Institute of Medical Sciences, Indore | MBBS | 100 | 15 | 43 | 42 |
| 3. | R.D. Gardi Medical College, Ujjain | MBBS | 100 | 15 | 43 | 42 |
| 4. | Index Medical College Hospital & RC, Indore | MBBS | 150 | 23 | 64 | 63 |
| 5. | L. N. Medical College Hospital & RC, Bhopal | MBBS | 150 | 23 | 64 | 63 |
| | TOTAL | | 650 | 99 | 278 | 273 |

DENTAL COLLEGES

| S. No. | Name of the Institution | Course | Total No. Seats | N.R.I | DMAT | STATE QUOTA |
|--------|--|--------|-----------------|------------|------------|-------------|
| 1. | Modern Dental College & Research Centre, Indore | BDS | 100 | 15 | 43 | 42 |
| 2. | People's College of Dental Science & Research Centre, Bhopal | BDS | 100 | 15 | 43 | 42 |
| 3. | People's Dental Academy, Bhopal | BDS | 100 | 15 | 43 | 42 |
| 4. | Maharana Pratap College of Dentistry & RC, Gwalior | BDS | 100 | 15 | 43 | 42 |
| 5. | Sri Aurobindo College of Dentistry, Indore | BDS | 100 | 15 | 43 | 42 |
| 6. | Rishiraj College of Dental Sciences & RC, Bhopal | BDS | 100 | 15 | 43 | 42 |
| 7. | Mansarovar Dental College, Bhopal | BDS | 100 | 15 | 43 | 42 |
| 8. | College of Dental Science & Hospital, Rau, Indore | BDS | 60 | 09 | 26 | 25 |
| 9. | Guru Gobind Singh College of Dental Sciences & RC, Burhanpur | BDS | 100 | 15 | 43** | 42 |
| 10. | Hitkarini Dental College & Hospital, Jabalpur | BDS | 60 | 09 | 26 | 25 |
| 11. | Institute of Dental Education and Advance Studies (IDEAS), Gwalior | BDS | 100 | 15 | 43 | 42 |
| | TOTAL | | 1020 | 153 | 439 | 428 |

SEATS OF BPT/ NURSING / OTHER ALLIED PARAMEDICAL COURSES IN PRIVATE COLLEGES OF MADHYA PRADESH

| S. No. | Name of Institutions | Name of Course | Course Code No. | Course Group | No. of Seats | Duration |
|--------|--|---|-----------------|--------------|--------------|-----------|
| 1. | Institute of Paramedical Sciences & College of Physiotherapy, Ujjain | BPT | 003 | 03 | 50 | 4 ½ Years |
| | | Diploma in Laboratory Technician Pathology | 005 | 05 | 50 | 2 Years |
| | | Diploma in X-Ray Radiographer Technician | 005 | 05 | 50 | 2 Years |
| | | Diploma in Anaesthesia Technician | 005 | 05 | 50 | 2 Years |
| | | Certificate in Operation Theatre Technician | 005 | 05 | 50 | 1 Year |
| 2. | R. D. Gardi College of Nursing, Ujjain | B.Sc. Nursing | 004 | 04 | 40 | 4 Years |

| | | | | | | |
|----|---|---|-----|----|-----|-----------|
| 3. | Sri Aurobindo College of Nursing, Indore | B.Sc. Nursing | 004 | 04 | 100 | 4 Years |
| | | Post Basic B.Sc. Nursing | 004 | 04 | 25 | 2 Years |
| | | Post Basic Diploma in Critical Care Nursing | 005 | 05 | 10 | 1 Year |
| | | Post Basic Diploma in Oncology Nursing | 005 | 05 | 10 | 1 Year |
| | | Post Basic Diploma in & Disaster Nursing | 005 | 05 | 15 | 1 Year |
| | | GNM | 005 | 05 | 40 | 3 ½ Years |
| | | ANM | 005 | 05 | 30 | 1 ½ Years |
| 4. | Sri Aurobindo Institute of Allied Health & Paramedical Sciences, Indore | BPT | 003 | 03 | 50 | 4 ½ Years |
| | | Medical Lab Technician | 005 | 05 | 50 | 2 Years |
| | | Operation Theater Technician | 005 | 05 | 50 | 1 Year |
| | | X-Ray Radiographer Technician | 005 | 05 | 50 | 1 Year |
| | | Gamma Camera Technician | 005 | 05 | 50 | 1 Year |
| | | Audiologist | 005 | 05 | 50 | 1 Year |
| 5. | Indore Institute of Medical Sciences, Indore | BPT | 003 | 03 | 50 | 4 ½ Years |
| | | B.Sc. Nursing | 004 | 04 | 50 | 4 Years |
| | | B.O.T. | 005 | 05 | 50 | 4 ½ Years |
| | | Cath Lab Technician | 005 | 05 | 20 | 2 Years |
| | | Medical Lab Tech. | 005 | 05 | 20 | 2 Years |
| | | CT MRI | 005 | 05 | 20 | 1 Year |
| | | Perfusionist Tech. | 005 | 05 | 20 | 1 Year |
| 6. | People's College of Paramedical Sciences & Research Centre, Bhopal | Bachelor of Physiotherapy | 003 | 03 | 50 | 4 ½ Years |
| | | Bachelor of Medical Lab Technology | 005 | 05 | 50 | 3 Years |
| | | B.Sc. Human Nutrition | 005 | 05 | 50 | 3 Years |
| | | Diploma in Medical Lab Technology | 005 | 05 | 50 | 2 Years |
| | | Diploma in Dialysis Technician | 005 | 05 | 50 | 2 Years |

| | | | | | | |
|-----|--|--------------------------|-----|----|-----|-----------|
| 7. | People's College of Nursing & Research Centre, Bhopal | B. Sc. Nursing | 004 | 04 | 100 | 4 Years |
| 8. | Hitkarini Institute of Nursing Sciences & Research, Jabalpur | B.Sc. Nursing | 004 | 04 | 60 | 4 Years |
| 9. | L. N. Paramedical College, Kolar Road, Bhopal | BPT | 003 | 03 | 50 | 4 ½ Years |
| 10. | Index Nursing College, Indore | B.Sc. Nursing | 004 | 04 | 60 | 4 Years |
| 11. | Sunder Devi Nursing College, Kolar Road, Bhopal | B.Sc. Nursing | 004 | 04 | 60 | 4 Years |
| 12. | Manoj Jain Memorial College of Nursing Sciences & Research Centre, Satna | B.Sc. Nursing | 004 | 04 | 40 | 4 Years |
| | | General Nursing | 004 | 04 | 40 | 3 ½ Years |
| 13. | Amar Jyoti Institute of Nursing & Research, Jabalpur | B.Sc. Nursing | 004 | 04 | 60 | 4 Years |
| | | Post Basic B.Sc. Nursing | 004 | 04 | 15 | 2 Years |
| 14. | Premvati College of Nursing Sciences & Research, Jabalpur | B.Sc. Nursing | 004 | 04 | 50 | 4 Years |
| 15. | Anushree College of Nursing Sciences & Research, Jabalpur | B.Sc. Nursing | 004 | 04 | 60 | 4 Years |
| 16. | Ojaswini Institute of Nursing Sciences & Research Centre, Damoh | B.Sc. Nursing | 004 | 04 | 60 | 4 Years |
| | | General Nursing | 004 | 04 | 40 | 3 Years |
| | | ANM | 005 | 05 | 40 | 1 Year |
| 17 | Ojaswini Nursing College, Sagar | B.Sc. Nursing | 004 | 04 | 60 | 4 Years |
| | | General Nursing | 004 | 04 | 40 | 3 Years |

Note:

- In case private colleges other than mentioned in the table above who have applied to MCI/DCI / Respective Councils for academic session 2010-11 gets approval, their seats would also be available at the time of admission.
- R.D. Gardi Medical College is already recognized by MCI & Govt. of India, People's College of Dental Sciences & Research Centre, Bhopal, Modern Dental College & Research Centre, Indore and College of Dental Sciences & Hospital Indore, Hitkarini Dental College & Hospital, Jabalpur and People's Dental Academy, Bhopal are also recognized by DCI & GOI.

- Admission to **other** Dental & Medical colleges for the session 2010-11 would be available only after the **renewal of** permission is granted by DCI/MCI.
- ** Seats shall be filled up from minority communities as per directions of State Minority Commission if all seats are not filled up from Minority Community remaining vacant seats shall be filled up from DMAT merit 2010/ equivalent qualifying examination.

18. MODE OF SELECTION

On the basis of the marks obtained by candidates in the DMAT-2010 merit list will be prepared depending upon number of sanctioned seats. Remaining candidates up to a fixed number will be kept in the waiting list.

Merit criteria in case of candidates with equal marks

Merit order of candidates having secured equal total marks will be decided on the basis of marks obtained in individual subjects arranged in order of their importance as follows :

| | |
|-----------------|---------------|
| 1st – Zoology | 2nd – Botany |
| 3rd – Chemistry | 4th – Physics |

There after the person elder in age will be preferred.

19. OPEN COUNSELLING FOR ALLOTMENT OF SEATS

- The allotment of seats shall be made to the candidates through open counselling on the basis of personal appearances. The counselling Committee will consist of:-
 - (i) All Members of Admission Committee or any one as per the decision of Admission Committee.
 - (ii) All the Deans / Director of Medical/Dental Colleges and nominated members of APDMC.
 - (iii) Controller of DMAT Examinations.
- Candidates who have been allotted a seat in first counselling on merit basis, because of any reason could not join the allotted institution are also eligible to participate in second open counselling.
- The programme for counselling shall be advertised in the leading Newspapers of the State. Counselling programme shall also be available on website of the Association. **Separate call letters will not be sent.**
- Candidates shall have to travel for the counselling at their own cost.
- Candidates shall not be allowed to enter the area specified for counselling without showing the DMAT-2010 Examination RANK CARD.

- The candidate without original documents as mentioned in **Para – 20 (A)** shall not be eligible for admission.
- The candidate shall wait for their turn in the order of merit. Candidates shall be called in small group of 10-20 for scrutiny i.e. verification of required original documents and if found eligible, shall further be permitted for the counselling where they shall exercise their option for allotment of any one of the available seats which shall be final and the same shall be allotted to them on the spot and the allotment letter shall be issued.
- If a Candidate due to any unavoidable circumstances does not remain present on the date and time fixed for him/her for scrutiny of the documents and counselling then such candidate, if he/she comes afterwards, shall be considered only at the stage, where the counselling is in progress irrespective of his merit. He shall be considered only if the counselling is going on, and allotment done before to other candidates on the basis of their merit shall remain unchanged.

Such candidates those who are absent or those who could not participate in the counselling due to incomplete documents shall be called in the next counseling, if seats still remain vacant.

- All original documents will be verified by the concerned college at the time of admission.
- Canvassing directly or indirectly for the allotment of seat would disqualify the candidate for admission. Influencing the staff by unfair means will lead to cancellation of allotted seat and such candidate will also face disqualification for appearance in the subsequent DMAT - 2010.
- Candidates selected for admission shall be subject to disciplinary rules of University/ Institution/ Government and Management.
- A Candidate selected for any MBBS/BDS/ BPT /B.Sc. Nursing and Other Allied Paramedical Courses as per merit will not be allowed for change of college on mutual basis.
- The selection made by the Admission Committee as per procedure is final and will be binding on the candidate.
- Admission to the candidate will be given only after the candidate will deposit his/her all-relevant original certificates, documents alongwith the balance course fee through bank draft in favour of allotted college. Original certificates will be returned only after completion of internship.

20. Documents to be produced at time of counselling

1. Demand Draft of Rs. 2,50,000/- (MBBS) Rs. 1,25,000/- (BDS) , Rs. 10,000/- for BPT/Nursing and other Courses in favour of APDMC payable at Bhopal (Tuition fee).
2. Rank Card of DMAT – 2010.
3. Photocopy of filled Application Form.
4. Proof of Identification.
5. Counselling fee of Rs. 500/- in cash or D.D.
6. GAP Certificate if any (affidavit).

Note:

Because of any reasons candidates who are unable to submit D.D. at the time of counselling, will have to submit an undertaking that they will submit the required D.D. in DMAT Office within 3 days after date of counselling.

20. (A). Documents to be submitted at the time of Admission at respective college

1. Original marksheet of qualifying examination.
2. Migration certificate (except MP Board Bhopal) from the University & Board.
3. Letter of allotment issued by the Admission Committee/ DMAT - 2010 Counselling Committee.
4. Six (6) recent passport size photographs.
5. Statement of marks obtained in 10+2 or equivalent examination.
6. Passing certificate of 10+2 or equivalent examination.
7. Statement of marks / Rank Card obtained in DMAT-2010.
8. Transfer Certificate/School leaving Certificate from last institution attended.
9. Passing Certificate of High School or equivalent examination (proof of age).
10. GAP Certificate if any (affidavit).
11. Medical Fitness certificate.
12. Declaration form.
13. Remaining tuition fee, caution money and other college fees .
14. Bond/Bank guarantee if required by concerned college.

21. DISQUALIFICATION FOR ADMISSION

- Any candidate himself or his/her authorized proxy if found obstructing the admission process or creating nuisance, the candidate shall be liable for disqualification from the admission process. The decision taken by the College Authority shall be final and binding.
- Not with standing anything stated in the Rules here-in-above, a candidate who was allotted a seat in previous year(s) and who vacates/abandon it after availing the said seat, has completed such a period of course which would result into lapse of the said seat, will not be eligible for admission unless he produces a No Objection Certificate from the college whose seat has been lapsed due to the candidate concerned.

22. FEE FOR COURSES**Fee Structure:**

In accordance with the directions of Hon'ble Supreme Court of India the fees of Private Dental and Medical Colleges is to be fixed / approved by the Admission and Fee Regulatory Committee. In the absence of Committee's decision the Colleges shall be charging fees approved for the academic session 2009-2010 (provisional) which will be put up before the Admission and Fee Regulatory Committee for finalization. The provisional fees to be charged by the Private Dental & Medical Colleges is as given in the table.

MEDICAL COLLEGES

| S No | Name of the Institution | Course | Fees for 2010-11 |
|------|--|--------|------------------|
| 1. | People's College of Medical Sciences & RC, Bhopal | MBBS | 3,22,000/- |
| 2. | Sri Aurbindo Institute of Medical Sciences, Indore | MBBS | 2,95,000/- |
| 3. | R.D. Gardi Medical College, Ujjain | MBBS | 2,90,000/- |
| 4. | Index Medical College Hospital & RC, Indore | MBBS | 2,81,500/- |
| 5. | L. N. Medical College Hospital & RC, Bhopal | MBBS | 2,78,900/- |

DENTAL COLLEGES

| S No | Name of the Institution | Course | Fees for 2010-11 |
|------|--|--------|------------------|
| 1. | Modern Dental College & Research Centre, Indore | BDS | 1,72,900/- |
| 2. | People's College of Dental Sciences & Research Centre, Bhopal | BDS | 1,78,000/- |
| 3. | People's Dental Academy, Bhopal | BDS | 1,53,800/- |
| 4. | College of Dental Science & Hospital, Rau, Indore | BDS | 1,58,100/- |
| 5. | Maharana Pratap College of Dentistry & RC, Gwalior | BDS | 1,32,300/- |
| 6. | Hitkarini Dental College & Hospital, Jabalpur | BDS | 1,47,000/- |
| 7. | Guru Gobind Singh College of Dental Sciences & RC, Burhanpur | BDS | 1,54,600/- |
| 8. | Sri Aurobindo College of Dentistry, Indore | BDS | 1,76,400/- |
| 9. | Rishiraj College of Dental Sciences & RC, Bhopal | BDS | 1,45,200/- |
| 10. | Mansarovar Dental College, Bhopal | BDS | 1,67,200/- |
| 11. | Institute of Dental Education and Advance Studies (IDEAS), Gwalior | BDS | 1,49,000/- |

- The fee amount given above shall be charged provisionally by the respective colleges for the Academic session 2010-11. However, the fee finally fixed by the Admission and Fee Regulatory Committee constituted by the Government of Madhya Pradesh, shall be binding and accordingly payable/adjustable by the candidate(s)/ college(s).
- The Committee may fix the different fees for different institution as per the guide lines of Hon'ble Supreme Court.
- **Payment of Fee:** The candidate shall be admitted on payment of one year fee at the time of admission at respective college. Out of which amount of Rs. 2.50 and 1.25 lakh and Rs. 10,000/- for MBBS, BDS and for other Courses respectively will be deposited during counselling. If the Institution/college feels that any particular student(s) may leave in midstream then the college may require the candidate either to pay fee for full course and or submit Bond/Bank guarantee of the fee for whole course in evidence to the law laid by the Hon'ble Apex Court in case of Islamic Academy of Education.

23. MARK SHEET

- The candidate will receive the Mark Sheet by post "Under Certificate of Posting" within a week of declaration of result.
- The Mark Sheet will contain marks obtained by the candidate and his /her merit ranking.
- **Duplicate Marksheet** : In case of loss of Original DMAT 2010 Mark Sheet, a duplicate Marksheet can be obtained on making an application on plain paper to the Controller, APDMC, alongwith a Demand Draft of Rs. **1000/-** in favour of APDMC payable at Bhopal or in cash.

24. ADMISSION

Consequent upon a candidate allotment for a course and college he / she is required to report on the notified date and time to the Dean / Principal of the college concerned.

25. CONDUCT AND DISCIPLINE

The student while studying in the MBBS/BDS and other courses, if found indulging in anti national activities, unlawful activities or ragging in any form, contrary to the provisions of Act and Law and Law enforced by Government, will be liable to be expelled from the college by the Dean/Principal of the College.

- Failure of the candidate in taking full and correct statements in the application form and/ or suppression of any information is liable for disqualification of the candidate, even at later date. Such a candidate will be debarred from the entire selection process and pursuing the course of studies.
- It is the responsibility of every candidate to submit proper documents. Any attempt to submit documents which are not genuine, will lead to cancellation of the admission of the candidate, forfeiture of the fees, deposits and expulsion of the candidate from the college by the Admission Committee or his authorized official. The name of such candidate/s shall be deleted from the Merit List.
- Pursuant to the orders in W.P. (Civil) No. 615 of 1999, Hon'ble Supreme Court of India has directed the Department of Human Resources and Development, Govt. of India, to take all necessary steps to curb the menace of ragging and take severe action against the students involved in such activities. Students to take serious note of it.
- As per the provisions in "Madhya Pradesh Prohibition Ragging Act of 1999", students indulging in ragging can be punished under the Act resulting in suspension, expulsion from the college and imprisonment.
- Student failing to clear MBBS/BDS and other courses in the stipulated time fixed by MCI/DCI/ relevant Council and continuing thereafter shall be asked to pay proportionate fee for the remaining period of the course.
- Any issue not dealt herein above will be dealt with, when arising fully and finally by the Admission Committee.

26. JURISDICTION

In case of any legal dispute, the jurisdiction shall be limited to High Court of Madhya Pradesh only.

27. IMPORTANT INSTRUCTIONS

1. The candidates are advised before filling up the form, to ensure that they fulfill all the eligibility and qualifying conditions with respect to age, qualification etc. for admission to the course applied for.
2. The candidates are not required to attach/enclose any documents with the application form. They shall be required to produce the same at the time of counselling/Admission.
3. Please ensure that the Application Form is neither folded nor torn or mutilated.
4. Application Form can also be downloaded from the Association website. In case the application form has been downloaded from website should be submitted alongwith a Demand Draft of Rs. 1500/- drawn in favour of APDMC, payable at Bhopal.
5. Photograph for Application Form must be - White Background, Full face both the ears and shoulders should be visible in the photograph, photograph should be in MATT finish.
6. The Association shall not be responsible for the application forms lost in transit; received after due date and no correspondence in this respect shall be entertained.
7. Canvassing directly or indirectly for the allotment of seat would disqualify the candidates for admission. Influencing the staff by unfair means will lead to cancellation" of allotted seat and such candidate will also face disqualification for appearance in the subsequent DMAT Examination.
8. Candidates should use only **Black /Blue Hi-Tech Point Pen** to fill the Application Form.
9. **ONLY BLACK BALL POINT PEN SHOULD BE USED IN OMR ANSWER SHEET.**
10. Incomplete Application Form will be rejected.
11. Left Thumb impression using **RED STAMP PAD** ink in entirely inside the box provided in Application Form.

CHECK LIST

1. A correct computerized Application Form has been used and the form has been filled up correctly and signed at desired places.
2. Demand Draft of Rs. 750/- as examination fee has been enclosed.
3. Correct left thumb impression with red stamp pad ink has been taken,
4. No certificate has been submitted alongwith Application Form.
5. Proper coloured photograph has been pasted as per instructions.
6. Photocopy of the Application Form (both sides) has been taken and kept for future reference.
7. Phone number has been filled up properly with STD code.
8. Date of birth of candidate has been correctly filled up.
9. Declaration column has been properly signed.

NOTIFIED SALE CENTERES:**Annexure - A**

| S No | Name of the Institution | Telephone Number | Fax Number |
|-------------|---|--|--|
| 1. | People's College of Medical Sciences & RC Bhopal | 0755-4005100-03,4005130 | 0755-4005112 |
| 2. | Sri Aurobindo Institute of Medical Sciences, Indore | 0731-4231010 (30 Lines), 4231111 | 0731-4231010 |
| 3. | R.D. Gardi Medical College, Ujjain | 0734-4013621 07368-261281 | 0734-2559147 07368-261304 |
| 4. | Index Medical College Hospital & RC, Indore | 0731-4215757 0731-4044715 | 0731-2542469 0731-4044715 |
| 5. | L. N. Medical College Hospital & RC, Bhopal | 0755-4049610/20, 4087006 | 0755-4049610 |
| 6. | Modern Dental College & R,C, Indore | 0731-2882772,2882693 | 0731-2882699 0731-2882700 |
| 7. | People's College of Dental Sciences & RC, Bhopal | 0755-4005341 | 0755-4005315, |
| 8. | People's Dental Academy, Bhopal | 0755-4005361, 4005360 | 0755-4005362 |
| 9. | College of Dental Science & Hospital, Rau, Indore | 0731-4020422, 4020111 | 0731-4020422 |
| 10. | Maharana Pratap College of Dentistry & RC, Gwalior | 0751-2233378, 2348112 0751-2346113, 6452664 | 0751-2347476 |
| 11. | Hitkarini Dental College & Hospital, Jabalpur | 0761-2600303, 2609926 0761-2600366 | 0761-2600366 |
| 12. | Guru Gobind Singh College of Dental Sciences & RC, Burhanpur | 0755- 6533777, 4234777 07325-251244 | 0755-3012212 07325-252414 07325-257733 |
| 13. | Sri Aurobindo College of Dentistry, Indore | 0731-4231010 (30 Lines), 4231111 | 0731-4231010 |
| 14. | Rishiraj College of Dental Sciences & RC, Bhopal | 0755-4097300 0755-6539013 | 0755-2646524 |
| 15. | Mansarovar Dental College, Bhopal | 0755-2495580, 2492554, 2879445 | 0755-2495580 |
| 16. | Institute of Dental Education and Advance Studies (IDEAS), Gwalior | 0751-2576294 | 0751-2576294 |
| 17. | APDMC - DMAT OFFICE, E-2/51 Arera Colony Opp Habibganj Railway Station Near Niramay Hospital Bhopal - 462016 | 0755-3201141, 3256198, 2460047, 2467244 | - |
| 18. | State Bank of India : Bhopal T.T.Nagar Branch, Indore Main Branch, Jabalpur Main Branch, Gwalior Main Branch, Ujjain Main Branch, Sagar Civil Lines Branch, Rewa Main Branch, Chandigarh Main Branch, Raipur Main Branch, Bilaspur Main Branch, New Delhi Main Branch, Ahmedabad Main Branch, Lucknow Main Branch, Patna Main Branch, Ranchi Main Branch, Kota Main Branch, Jaipur Main Branch. | | |

INSTRUCTIONS TO BE FOLLOWED IN THE EXAMINATION HALL

GENERAL INSTRUCTIONS:

- (i). The Examination Hall will be opened 30 minutes before the commencement of the test. Candidates are expected to take their seats immediately after the 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.
- (ii). The candidate must show, the Admit Card for admission at the Entrance of Examination Hall. A candidate who does not possess the Admit Card issued by the DMAT shall not be admitted to the Examination Hall under any circumstances.
- (iii). During the examination time, the invigilator will check Admit Card of the candidates to satisfy himself/herself about the identity of each candidate. The invigilator will also put his/her signature in the place provided on the Answer Sheet.
- (iv). A seat with a Roll Number will be allotted to each candidate. Candidate must find out and occupy his allotted seat. If a candidate is found appearing in the test, from a seat or room other than the one allotted to him/her, his/ her candidature shall be cancelled.
- (v). A candidate who comes after the commencement of the examination shall not be permitted to sit in the examination.
- (vi). Candidates are not allowed to carry any textual material, printed or written, bits of papers, envelope or any other material except the Admit Card inside the Examination Hall.
- (vii). Calculators, Slide Rules, Log Tables, Geometry Box, Electronic Digital Watches with facilities of calculators, cellular phones, pagers or any other electronic gadget are not allowed inside the Examination Hall.
- (viii). No candidate, will leave his/her seat of the Examination Room until the Examinations finished. Candidate should not leave the Hall without handing over their Answer Sheets Question Booklets to the Invigilator on duty.
- (ix). Candidates are advised to bring with them a card board or a clip board so that they have no difficulty in writing responses in the Answer Sheet even if the tables provided in the Examination Hall do not have smooth surface. They will also bring their own Ball Point Pens of good quality. These will not be supplied by the DMAT.
- (x). Smoking in the Examination premises is strictly prohibited.
- (xi). Tea, coffee, cold drinks or snacks are not allowed to be taken by the candidates into the Examination Halls.
- (xii). 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.
- (xiii). The candidate must sign on the Attendance Sheet at the appropriate place. The candidates are also required to put their left hand thumb impression in the space provided on the Attendance Sheet.
- (xiv). For those who are unable to appear on the scheduled date of examination for any reason, re-examination shall not be held by the DMAT under any circumstances.

(xv). UNFAIRMEANS:

- a) If during the course of examination, a candidate is found indulging in any of the following, he/she shall be deemed to have used unfair means at the examination and as such his/her result shall not be declared but shall be marked as UNFAIRMEANS (U.F.M) and debarred from examination permanently in future:
- having in possession papers, books, notes, electronic devices or any other material or information relevant to the examination in the paper concerned;
 - giving or receiving assistance directly or indirectly of any kind or attempting to do so;
 - writing questions or answers on any material other than the answer book given by the Center Superintendent for writing answers;
 - tearing of any page of the question paper, answer sheet etc.;
 - contacting or communicating or trying to do so with any person, other than the Examination Staff, during the examination time in the Examination Center.
 - taking away the answer sheet/question book out of the examination hall/room;
 - smuggling out Question Paper or its part or smuggling out question books/answer sheet or part thereof;
 - threatening any of the officials connected with the conduct of the examinations or threatening any of the candidates.
- b) Candidates should ensure before leaving the Examination Hall that they have handed over the answer sheet/question book to the invigilator on duty. In case, the candidate does not hand over the Answer Sheet/ Answer Book and takes away the same with him/her, this shall amount to use of unfair means practices and accordingly his/her case shall be dealt with.

DMAT-2010

SYLLABUS

SUBJECT: PHYSICS

- Units and dimensions, Dimensional analysis, S. 1. Units, motion in two dimensions Cases of uniform velocity and uniform acceleration, General relation among position and velocity. Uniform circular motion. Force and inertia. Newton's Laws of motions. Conservation of momentum and energy. Static and kinetic friction. Work energy and power, Elastic collisions, Potential energy, gravitational potential energy and its angular conversion to kinetic energy. Potential energy of a spring Rigid body rotation and conservation of its moment. Moment of inertia, theorems of parallel and perpendicular axis. (Moment of inertia of uniform ring, disc thin rod and cylinder only).
- Acceleration due to gravity and its variation, Universal law of gravitation, geostationary satellites, escape velocity.
- Hooke's law, Young's modulus, shear and bulk modulus, surface energy and surface tension, kinetic theory of gases, gas laws, kinetic energy and temperature.
- Specific heats at constant volume and constant pressure. Mechanical equivalent of heat, isothermal and adiabatic processes.
- Heat conduction in one dimension, convection and radiation. Stefan's law and Newton's law of cooling periodic motion, Simple harmonic motion, Oscillations due to spring wave motion principle of superposition, Progressive and stationary waves, beats and Doppler effect.
- Wave nature of light, Interference, Young's double slit experiment, Velocity of light and Doppler's effect in light.
- Reflection, refraction, total internal reflection, curved mirror, Lenses, mirror and lens formulae.
- Dispersion in prism, absorption and emission spectra.
- The human eye defects of vision, magnification and resolving power of telescope and microscope.
- 'e' and 'e/m' for an electron, Einstein's photoelectric equation, photocells.
- Bohr model of the atom. Hydrogen spectrum, Composition of nucleus, atomic masses and isotopes radioactivity, laws of radio active decay, decay constant, half life and mean life, Mass-energy relation fission. X-Ray: properties and uses.
- Elementary ideas of conductor, semi-conductor and insulator, intrinsic and extrinsic semiconductors, pn junction as a rectifier.
- Bar magnet lines of force, torque on a bar magnet due to magnetic field earth's magnetic field, tangent galvanometer, vibration magnetometer.

- Coulomb's law of electrostatics, dielectric constant, electric field and potential due to a point charge, dipole, dipole field, Gauss's law in simple geometries.
- Electrostatic potential, capacitance, parallel plate and spherical capacitors, capacitors in series and parallel, energy of a capacitor.
- Electric current, Ohm's law, Kirchoffs laws, resistances in series and parallel temperature dependence of resistance. Wheatston bridge, potentiometer.
- Measurement of voltages as currents.
- Electric power, heating effects of currents, chemical effects and law of electrolysis thermoelectricity. Biot Savart law Magnetic fields due to a straight wire, circular loop and solenoid.
- Force on a moving charge in a magnetic field (Lorentz force), magnetic moment of a current loop, effect of a uniform magnetic field of a current loop, forces between two currents, moving galvanometer, ammeter and voltmeter.
- Electromagnetic induction induced emf, Faradays law, Lenz's law, self and mutual inductance Alternating currents impedance and reactance, growth and decay of current in L-R circuit, elementary idea of dynamo and transformer.

SUBJECT: CHEMISTRY

GENERAL AND PHYSICAL CHEMISTRY

- Structure of Atom: Constitution of nucleus: Bohr's atom model: quantum numbers aufbau principle, electronic configuration of elements (upto-Kr): de-Broglie relation, shapes of orbitals.
- Chemical bond: Electrovalent covalent and coordinate bonds, hybridization (sp) : hydrogen bond : shapes of molecules (VSEPR theory) : bond polarity resonance, Elements of VBT a MOT.
- Solutions: Modes of expressing concentrations of solutions: Types of solutions, Raoult's law of colligative properties, non-ideal solution, abnormal molecular weights.
- Solid State: Crystal lattices, unit cells, Structure of ionic compounds: close packed structure, Ionic radii, imperfections (point defects): Properties of solids.
- Nuclear chemistry: Radio active radiations: Half-life, radioactive decay, group displacement law. Structure and properties of nucleus: Nuclear reactions, disintegration series, artificial transmutation: isotopes and their uses: Radiocarbon dating.
- Chemical equilibrium: Chemical equilibrium, Law of mass action : K_p and K_c : Le Chatelier principle and its applications.
- Ionic Equilibria in solutions, Solubility product, common ion effect, theories of acids and base hydrolysis of salts: pH buffers.
- Thermo chemistry and Thermodynamics: Energy changes during a chemical reaction: intrinsic energy. Enthalpy; First law of thermodynamics: Hess's law Heats of reactions: Second law of thermodynamics: entropy: free energy; spontaneity of a

- chemical reaction; free energy change and chemical equilibrium; free energy change and chemical equilibrium; free energy as energy available for useful work.
- Chemical Kinetic: Rate of a reaction, factors affecting the rate, rate constant, rate expression, order of reaction, first order rate constant expression and characteristics, Arrhenous equation.
- Electrochemistry: Oxidation, Oxidation number and ion-electron methods. Electrolytic conduction. Faraday's laws: voltaic cell, electrode potentials, electromotive force, Gibbs's energy and cell potentials, Nor nest equation, commercial cells, fuel cell, electrochemical theory of corrosion.
- Surface chemistry. Colloids and Catalysis; Absorption, Colloids (types preparation and properties). Emulsions. Micelles, Catalysis: Types and characteristics.

INOGRANIC CHEMISTRY

- Principles of metallurgical operations: Furnaces, ore concentration, extraction, purification metallurgies of Na, Al, Fe, Cu, Ag, Zn and Pb and their properties.
- Chemical periodicity: S.p.d. and f- block elements, periodic table: periodicity: atomic and ionic radii valance, ionization energy, electron affinity, electro negativity, metallic character.
- Comparative study of elements: Comparative study of the following families of elements: (i) Alkali metals (ii) Alkaline earth metals (iii) Nitrogen family (iv) Oxygen family (v) Halogens (vi) Noble gases.
- Transition metals: Electronic configurations of 3d-metal ions, oxidation states, other general characteristic properties, potassium permanganate, and potassium dichromate.
- Co-ordination compounds: Simple nomenclature, bonding and stability classification and bonding in organometallics.
- Chemical analysis: Chemistry involved is simple inorganic qualitative analysis: calculations based on acid -base titrimetry.

ORGANIC CHEMISTRY

- Calculation of empirical and molecular formula of organic compounds. Nomenclature of organic compounds, common functional groups isomerism, structure and shapes of alkanes, alkanes and benzene.
- Preparation properties and uses of alkanes, alkenes and alkynes, benzene petroleum, cracking octane number, gasoline additives.
- Nomenclature, Physical Chemical properties, correlation of physical properties with structure properties and uses of haloalkanes. halobenzenes, alcohols and phenols: General ideas of some polyhalogen compounds viz. dichloroethanes, dichloroethers, chloroform, carbon tetrachloride, D.D.T. benzene hexachloride.
- Nomenclature methods of preparation, Chemical properties correlations of physical properties with structures and uses of ethers, aldehydes, ketones carboxylic acids and their derivatives, Brief account of the chemistry of Cyanides, isocyanides, amines and nitro compounds.

- Polymers: Classification: Preparation, and uses of common natural and synthetic polymers.
- Biomolecules: Classification, Structures and biological importance of carbohydrates, amino acids, peptides, proteins and enzymes, nucleic acids and lipids.

SUBJECT: BOTANY

- Structural organization of cell, cell theory: Light and Electron Microscopic view of cell: Structure and functions of cell Organelles: - Nucleus Mitochondria, Chloroplast, Endoplasmic reticulum, Golgi complex, lysosome. Micro bodies, microfilaments, Ribosomes. Centrioles and Plasmids, Eukaryotic chromosome (Morphology) cell and plasma membrane. Difference between plant and animal cell Division, cell cycle. Significance of mitosis and meiosis.
- Mendel's Laws of inheritance, Monohybrid and dihybrid cross; Linkage and crossing over of genetic material DNA replication, genetic code transcription translation and gene regulation.
- Difference between prokaryote and Eukaryotes: Structure reproduction and economic importance of viruses Mycoplasma, Bacteriophage, Cyanobacteria (Nostoc) and Bacteria.
- Five kingdom classification Binomial nomenclature: External morphology and life cycle of Spirogyra Mucor, Funaria Selaginella and Pinus.
- Elementary knowledge of microsporogenesis megasporogenesis, Fertilisation, endosperm and embryo development in Angiosperms.
- Tissues and tissue systems, meristematic and permanent tissue. Mineral nutrition-essential elements and their functions: uptake of minerals transport of water and solutes, Transpiration photosynthesis and Respiration importance, mechanism and factors affecting these processes: photorespiration.
- Enzymes and growth hormones with reference to their classification. Chemical nature, mode of action importance. Elementary idea of photoperiodism and phytochrome.
- Ecosystem - Structures and function, Major ecosystems i.e, Lake and Forest; Food chain, Food web' and Energy 'flow. Ecological crisis-Role of man in polluting Environment-Air, Water and soil.
- Role of plants in human welfare: A general knowledge of plant products of economic value - Drugs, Fibers cereals.
- (Wheat and Rice) Pulse (gram) Oil seeds (ground nut). Sugarcane, Coal and petroleum.
- Food preservation-Methods and importance.
- Principle of plant breeding and its role in improvement of crops. Biotechnology: scope and importance in Agriculture and industries manufacture of cheese, Yoghurt Alcohol antibiotics.

SUBJECT: ZOOLOGY

MULTICELLULARITY- STRUCTURE AND FUNCTIONS OF ANIMAL LIFE:

- Structure and function of Animal tissues Epithelial, Connective Muscular, Skeletal and Nerve.
- Histology of Mammalian organs - Stomach, Intestine, Liver Kidney, Lung, Testis and Ovary.
- Structure and Physiology of different organ systems of Human body - Skin, Digestive System Respiratory System. Circulatory system, excretory system, Nervous system, Reproductive system.
- Skeleton, joints, Muscles on the basis of movement Receptors.
- Endocrine system with special reference to various Endocrine glands of man and hormonal coordination.
- Vitamins & minerals (source and disorders due to deficiencies)

DEVELOPMENTAL BIOLOGY AND GENETICS:

- Female reproductive cycles in mammals. Gametogenesis along with structure of sperm and ovum.

Types of eggs, Fertilization, cleavage types of cleavage and blastula.

Development of mammals upto three germinal layers. Foetal membrane structure and functions.

- Growth, repair and ageing, amniocentesis.
- Chromosomes, Types of chromosome, Human karyotype and chromosomal abnormalities and syndromes. Hormonal, Chromosomal and Genic balance theory of sex determination. Sex. Linkage and sex linked inheritance in Man. Blood Groups and their significance, Blood Bank.
- Tissue culture Genetic Engineering (Brief idea). Mutation gene mutation.
- Human population natality Mortality, Sex ratio, Population explosion, dynamics of human life with respect to food supply, housing health and standard of living impact of population problems and their control.

TAXONOMY EVOLUTION ECONOMIC ZOOLOGY:

- Classification-Binomial and trinomial nomenclature Basic features of classification, Classification of different animal phyla up to classes with characters and suitable examples.
- Origin of life, Theories of Organic evolution-Darwin, Lamarck, Synthetic Evidence of organic evolution Human Evolution.
- Economic Zoology /Sericulture, Apiculture, Lac culture, Poultry, Fishery and pearl industry.
- Protozoan disease in relation to man. Insect carrying diseases in relation to man.
- Cancer-types of cancer and cancer cell. Communicable diseases (Hepatitis. AIDS) STD, Immune Response, Vaccines and anti era Allergies.
- Smoking, alcoholism and drug addiction symptoms and control.
- Wild conservation.
- Pesticides - Uses, advantages and hazards.

IMPORTANT DATES

| Details | : | Date |
|---|---|--------------------------------------|
| Sale of Information Brochure & Application Forms | : | 15 th April, 2010 onwards |
| Last date for receiving complete Application Forms At Office of the Association of Private Dental & Medical Colleges of Madhya Pradesh D-MAT Office, E-2/51, Arera Colony, BHOPAL - 462016 (M.P.) | : | 03 rd June, 2010 |
| Last Date with late fee of Rs. 200/- | : | 10 th June, 2010 |
| Date of Examination : | : | 13 th June, 2010 (Sunday) |
| Time of Examination : | : | 09:00 a.m. to 12:00 noon |
| Date of declaration of Result : (Tentative) | : | 24 th June, 2010 |