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DAT - 2016

**ALL INDIA ONLINE COMMON ENTRANCE TEST
FOR
ADMISSION TO BDS COURSE
IN
UNAIDED PRIVATE COLLEGES OF MADHYA PRADESH**

**By
Association of Private Dental Colleges**

OFFICE

**Association of Private
Dental Colleges
MADHYA PRADESH
(APDC)**

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ALL INDIA DENTAL ADMISSION TEST FOR BDS COURSES (DAT-2016)

Association of Private Dental Colleges of Madhya Pradesh will be conducting an Entrance Test which is fair, transparent and non-exploitative. **DAT-2016** is being conducted for admission in BDS Course in Unaided Private Dental Colleges.

1. PREAMBLE

- The "Association of Private Dental Colleges of Madhya Pradesh" (APDC), hereinafter referred to as the 'Association' was established and registered under the Societies Regulation Act 1973 at Bhopal vide Regn. No. 01/01/01/30610/16 dated 12/02/2016. The Association is the Representative Body of Unaided Private Dental Colleges of Madhya Pradesh.
- **In compliance with the Dental Council of India Revised BDS Course Regulation, 2007 Association of Private Dental Colleges of MP** for Professional Institutions constituted in terms of Law laid by the **Hon'ble Supreme Court in case of Islamic Academy of Education is conducting an Dental Admission Test (DAT-2016)** for admission to BDS Course. DAT 2016 is subject to the directions of the honorable Supreme Court
- The Brochure for **DAT-2016** contains Rules for admission and information about courses and colleges. These Rules are applicable only for the Academic Year 2016-17.

2. ADMISSION COMMITTEE

- The Admission Committee will consist of 5 Members nominated by the Association. The Committee will supervise the conduct of **DAT- 2016** Entrance Examination, the preparation and declaration of the results, 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 **DAT- 2016** 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.
- **DAT-2016 shall be conducted In accordance with norms and under the guidance of Admission and Fee Regulatory Committee of Madhya Pradesh.**

3. CONDUCT OF ONLINE COMMON ENTRANCE TEST DAT- 2016

1. **APDCMP** has decided to Conduct **DAT-2016 for admission** in BDS Course for Academic Session 2016-17 in Member Dental Colleges.
2. 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 websites of Association.

COURSE

S. No.	Name of Course
1	BDS

DAT- 2016 TEST WILL BE CONDUCTED AT THE FOLLOWING CENTRES:-

CENTRE	CENTRE CODE
BHOPAL	01
INDORE	02
GWALIOR	03
JABALPUR	04
New DELHI	05
AHMEDABAD	06

If due to unforeseen circumstances during the conduct of DAT- 2016 at the center (s) and in the contingencies like incidence of mass copying, leakage of Question paper, entrance of unauthorized persons in the examination centre/hall, natural calamities, riots, etc. the Admission Committee may cancel the examination at such or all centre(s) such cancelled examination would be re-conducted on a later date at the earliest which shall further notify on the websites. **The fresh programme for conduct of DAT- 2016 at such centre(s) only.**

Note:

1. **The Association reserves the right to add or delete the Test City's/Centre(s).**
2. **Syllabus for the DAT-2016 (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 2015-16 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 Form can also be downloaded from our website. Application Form downloaded from website shall be submitted along with Demand Draft of Rs. 750/- (for BDS Course) drawn in favour of Association of Private Dental Colleges (APDC), 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 **Blue/Black Ball Point 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). 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 Examination, **45, Nishat Colony, Gate No.1, Bhopal-462011** by Registered / Speed Post/Courier/in person with **Examination Fee of Rs. 750/- by Demand Draft drawn in favour of Association of Private Dental Colleges (APDC), payable at Bhopal.** Candidates depositing Application Form in person can also deposit Examination Fee by cash in **Association Office and obtain necessary receipt.** Last date for submission of Application Forms is **12th May 2016 (upto 6:00pm)** and **14th May 2016 (upto 6:00pm)** with late fees of Rs. 250/-.
- Candidate shall write Name and Contact Number on the back of Demand Draft.
- Incomplete Application Forms will be rejected.

5. INSTRUCTIONS FOR FILLING UP 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 **Blue/Black Ball Point Pen only.** Fill the Form in English using CAPITAL LETTERS only.

- 5.1 **Name of the Candidate:** Write first name, then middle name (abbreviate if necessary) and then surname in the boxes provided on top of the circles. Leave a box blank between first, second and surname.
- 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 **Sex:** Tick the appropriate Column Male or Female in the box provided.
- 5.4 **Choice of Centers:** Tick up the choice of the two centers in order of preference and write Centre Code No. **FIRST & SECOND** choice.
- 5.5 **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.
- 5.6 Mailing address should be clearly written entirely inside the boxes. Write your address and finally PIN code. Write address in capital letters only.
- 5.7 If you have contact telephone/mobile numbers please fill in the boxes.
- 5.8 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 January, 2016 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 uses pin/staple to fix the photograph._ Do not attest or sign the photograph.**

- 5.10 Signature should be made by the Candidate himself/herself entirely inside the box.
- 5.11 **Thumb Impression:** - Apply your left thumb impression using **BLUE/RED STAMP PAD** ink in the space provided in application form. Allow the ink to get complete dry.

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) 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 **Association office** on payment of **Rs.200/-**
- (c) Any attempt on the part of a candidate to influence the authorities, directly or indirectly will be treated as disqualification of candidature for admission.

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 **Association** shall not take any responsibility for non- delivery of any communication on above account.
- (d) **Application Form Number will be allotted by the Association on receipt of the Application Form.** After the allotment of Roll Number the candidate should mention the Roll Number for all correspondence.

7. ELIGIBILITY

(A). MINIMUM EDUCATIONAL QUALIFICATION

For admission to 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/Dental Council of India as recognized qualification for admission to BDS Courses.

Note: No Domicile is required any Indian Citizen can apply.

8. SCHEDULE OF DAT - 2016

Date of Examination:	17.05.2016
Time:	09:00 AM to 12:00 NOON
Subjects:	Physics, Chemistry, Botany & Zoology

9. Mode of Examination.

The DAT-2016-17 (BDS-2016) 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/five options provided against each question on the answer sheet; the candidates will have to select only one option by marking on answer sheet with black pen. For each correct answer one mark will be awarded.

There shall be **no negative marking** for wrong answers.

Candidate will use only Black pen for marking the answers on OMR sheets.

10. DURATION AND MEDIUM OF EXAMINATION

Duration of examination will be of 3 **hours**. The medium of the test shall be English 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 then 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

- Admit Card of candidates shall be uploaded on our website three days before the Examination.
- No candidate will be allowed to appear for **DAT-2016** unless he/she holds valid admit card issued by the Controller of Examination, **DAT-2016**.
- The candidate is required to preserve the Admit Card for all future reference and correspondence.

13. AGE LIMIT

He/She shall complete the age of 17 years on or before 31st December of the year of admission to the BDS Course.

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) NRI Seats will be filled up as per Hon'ble Supreme Court judgment in I.A. No. 57 and 59 in Civil Appeal No. 4060/2009 dated 3rd April, 2012.

(B) Minimum Educational Qualification [Dental Colleges]

The candidates seeking admission against NRI quota, 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 Dental Council of India for admission to BDS courses.

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 DAT- 2016.**

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 as per para 15 (A) above.

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

S. No	Courses	Annual Fees
1.	BDS	10000 US \$

17. SEATS AVAILABLE

The availability of College wise Seats for BDS Courses to be filled during Academic Session 2016-17 are given below:-

PARTICIPATING DENTAL COLLEGES

S. No.	Name of the Institution	Course	Total No. Seats
1.	College of Dental Science & Hospital, Rau, Indore	BDS	60
2.	RKDF Dental College & RC, Bhopal*	BDS	100
3.	People's College of Dental Sciences & RC, Bhopal**	BDS	100
4.	Maharana Pratap College of Dentistry & RC, Gwalior	BDS	100
5.	Hitkarini Dental College & Hospital, Jabalpur	BDS	60
6.	People's Dental Academy, Bhopal**	BDS	100
7.	Rishiraj College of Dental Sciences & RC, Bhopal	BDS	100
8.	Guru Gobind Singh College of Dental Sciences & RC, Burhanpur ***	BDS	100
9.	Institute of Dental Education and Advance Studies (IDEAS), Gwalior	BDS	100
10.	Mansarovar Dental College, Bhopal	BDS	100
11.	Bhabha College of Dental Sciences, Bhopal	BDS	100
TOTAL			1020

* Constitute Units of SRK University, Bhopal

** Constituent Units of People's University, Bhopal

Note: Seats distribution in view of Hon'ble Supreme Court directions between Various Quotas & N.R.I. will be available on website before the Counselling.

Note:

- Distribution of Seats will be available on our website before commencement of the Counselling.
- DCI and GOI may grant permission or fresh recognition or increase in intake capacity of the existing Colleges.
- In case private colleges other than mentioned in the table above who have applied to DCI / Respective Councils for academic session 2016-17 gets approval, their seats would also be available at the time of admission.
- *** 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 DAT merit 2016/ equivalent qualifying examination.

18. MODE OF SELECTION

On the basis of the marks obtained by candidates in the **DAT-2016** merit list will be prepared.

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. COUNSELLING FOR ALLOTMENT OF SEATS

- The allotment of seats shall be made to the candidates through counselling. The counselling Committee will consist of:-
 - (i) All Members of Admission Committee or any one as per the decision of Admission Committee.
 - (ii) Nominee of AFRC.
 - (iii) All the Deans / Director of Dental Colleges and nominated members of APDCMP.
 - (iv) Controller of DAT Examinations.
- 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 **DAT- 2016** 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 **DAT- 2016**.
- Candidates selected for admission shall be subject to disciplinary rules of University/ Institution/ Government and Management.
- **A Candidate selected for BDS Course 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. 1,50,000/- (BDS) Course in favour of **Association of Private Dental College (APDC)** payable at Bhopal as (Tuition fee).
2. Rank Card of **DAT – 2016**.
3. Photocopy of filled Application Form.
4. Proof of Identification.
5. Counselling fee Rs. 1000 in cash.
6. GAP Certificate if any (affidavit).

Note:

Because of any reasons candidates who are unable to submit Demand Draft at the time of counselling, will have to submit an undertaking that they will submit the required Demand Draft in **Association of Private Dental College (APDC) Or College** within 3 days after date of counselling.

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

1. Original mark sheet of qualifying examination.
2. Migration certificate (except MP Board Bhopal) from the University & Board.
3. Letter of allotment issued by the Admission Committee/ **DAT-2016** 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 DAT-2016.
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 vacate/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 Colleges shall be charged as approved by the Admission and Fee Regulatory Committee and other regulatory bodies.

DENTAL COLLEGES

S No.	Name of the Institution	Course	Tuition Fees for 2016-17
1.	College of Dental Science & Hospital, Rau, Indore	BDS	****
2.	RKDF Dental College & RC, Bhopal	BDS	****
3.	People's College of Dental Sciences & RC, Bhopal	BDS	****
4.	Maharana Pratap College of Dentistry & RC, Gwalior	BDS	****
5.	Hitkarini Dental College & Hospital, Jabalpur	BDS	****
6.	People's Dental Academy, Bhopal	BDS	****
7.	Rishiraj College of Dental Sciences & RC, Bhopal	BDS	****
8.	Guru Gobind Singh College of Dental Sciences & RC, Burhanpur	BDS	****
9.	Institute of Dental Education and Advance Studies (IDEAS), Gwalior	BDS	****
10.	Mansarovar Dental College, Bhopal	BDS	****
11.	Bhabha College of Dental Sciences, Bhopal	BDS	****

**** The Tuition Fees will be informed once fixed by AFRC other regulatory Bodies

- The fee amount given above shall be charged by the respective colleges for the Academic session **2016-17**. However, the fee if revised by the Admission and Fee Regulatory Committee/Madhya Pradesh Private Universities Regulatory Commission 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. 1.50 lakh for BDS Course 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. RANK CARD

- Rank Card will be available on website after declaration of result for downloading.
- The Rank Card will contain marks obtained by the candidate and his /her merit ranking.

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 BDS, 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 BDS and other courses in the stipulated time fixed by 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 available at Association website. Application Form downloaded from website should be submitted alongwith a Demand Draft of Rs. 750/- drawn in favour of Association of Private Dental College (APDC), 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 **DAT-2016** Examination.
8. Candidates should use only **Blue/Black Ball Point Pen** to fill the Application Form.
9. Incomplete Application Form will be rejected.
10. Left Thumb impression using **Blue/RED STAMP PAD INK** entirely inside the box provided in Application Form.

<u>CHECK LIST</u>	
1	A correct Application Form has been used and the form has been filled up correctly and signed at desired places.
2	Demand Draft of Rs. 750/- (Exam Fee) Favoring APDC, Bhopal has been enclosed in Application Form has been download from website.
3	Correct left thumb impression with red stamp pad ink has been taken,
4	No certificate has been submitted alongwith Application Form.
5	Proper colored 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.

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.
- (ix). Smoking in the Examination premises is strictly prohibited.
- (x). Tea, coffee, cold drinks or snacks are not allowed to be taken by the candidates into the Examination Halls.
- (xi). 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.
- (xii). 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.
- (xiii). For those who are unable to appear on the scheduled date of examination for any reason, re-examination shall not be held by the DAT under any circumstances.
- (xiv). The candidate are required to carry Black Ball point/Roller pen for marking the OMR answer Sheets.
- (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.

DAT - 2016**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, Nernst equation, commercial cells, fuel cell, electrochemical theory of corrosion.

- Surface chemistry. Colloids and Catalysis; Adsorption, Colloids (types preparation and properties). Emulsions. Micelles, Catalysis: Types and characteristics.

INORGANIC 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, valence, ionization energy, electron affinity, electronegativity, 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, alkenes and benzene.
- Preparation properties and uses of alkenes, alkynes and alkyne, 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 membran. 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 liportance of viruses Mycoplasma, Bacteriophage, Cynobacteria (Nostoc) and Bacteria.
- Five kingdom classification Binomil nomenclature: External morophology and life cycle of Spirogyra Mucor, Funaria Selaginella and pinus.
- Elementary knowledge of microsporogenesis megasporogenesis, Fertilisation, endosperm and embryo development in Angiosperms.
- Tissues and tissues 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 photoperidism and phytochrome.
- Ecosystem - Structures and function, Major ecosystems i.e, Lake and Forest; Food chain, Food web' and Energy 'flow. Ecological crists-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-Methos 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

MULTICELLUIARITY- STRUCTURE AND FUNCTIONS OF ANIMAL LIFE:

- Structure and function of Animal tissues Epithelial, Connective Muscular, Skeletal and Nerve.
- Histology of Manmalian oargans - 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 basic of movement Receptors.

- Endocrine system with special reference to various Endocrine glands of man and hormonal co- ordination.
- Vitamins & minerals (source and disorders due to deficiencies)

DEVELOPMENTAL BIOLOGY AND GENETICS:

- Female reproductive cycles in mammals. Gametogenesis alongwith structure of sperm and ovum.
- Types of eggs, Fertilization, cleavage types of cleavage and blastula.
- Development of mammals upto three germinal layers. Foetal membrancestructure 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 antis 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	:	15.04.2016 (Friday)
Last date for receiving complete Application Forms At Office of the Association of Private Dental Colleges of MP Upto 6:00 PM Administrative Office- 45, Nishat Colony, Gate No.1, Bhopal- 462011(M.P)	:	12.05.2016 (Thursday)
Last Date with late fee of Rs. 250/- Upto 6:00 PM	:	14.05.2016 (Saturday)
Date of Examination :	:	17.05.2016 (Tuesday)
Time of Examination :	:	09:00 AM to 12:00 Noon

FOR FURTHER ENQUIRES CONTACT

**OFFICE OF THE
ASSOCIATION OF PRIVATE
DENTAL COLLEGES OF MP (APDCMP)**

Administrative Office- 45, Nishat Colony, Gate No.1, Bhopal-462011(M.P)
Ph. No. : 0755-2923218 E-mail: apdcmp@gmail.com
Websites : www.mpapdc.com

:--:चेतावनी:--:

ऐसोसिएशन ऑफ प्राइवेट डेंटल कॉलेजों ऑफ एम.पी. की सम्पूर्ण भारतवर्ष में अन्य कोई ब्रांच नहीं है संस्था का कोई भी अधिकारी/कर्मचारी कार्यालय के बाहर जाकर काम नहीं कर सकता और ना ही नियम विरुद्ध प्रवेश दिलाने का अधिकार रखता है । ऐसे में अगर कोई व्यक्ति/ऐजेंसी/संस्था हमारी संस्था का प्रतिनिधि होने का दावा कर ऐसोसिएशन ऑफ प्राइवेट डेंटल कॉलेजों ऑफ एम.पी. एवं डेंटल कॉलेज के पक्ष में प्रवेश के नाम पर किसी छात्र/छात्राओं/अभिभावकों से आवेदन पत्र प्राप्त करें अथवा छात्र/छात्राओं/अभिभावको को डेंटल कॉलेज में प्रवेश देने का आश्वासन दे, ऐसे व्यक्ति/ऐजेंसी/संस्था अवैध गतिविधियों द्वारा छात्र/छात्राओं/अभिभावकों को गुमराह कर जालसाजी कर सकते है ऐसी अवैध गतिविधियों के लिए ऐसोसिएशन ऑफ प्राइवेट डेंटल कॉलेजों ऑफ एम.पी. एवं डेंटल कॉलेज किसी भी प्रकार से उत्तरदायी नहीं होगा ।

ऐसोसिएशन ऑफ प्राइवेट डेंटल कॉलेजों ऑफ एम.पी. में BDS में प्रवेश ऐसोसिएशन ऑफ प्राइवेट डेंटल कॉलेजों ऑफ एम.पी द्वारा आयोजित DAT-2016 परीक्षा में प्राप्त मेरिट के आधार पर सेन्टरलाईज कौंसिलिंग के माध्यम से ही होंगे। डेंटल कॉलेजों में प्रवेश हेतु इच्छुक छात्र/छात्राओं/अभिभावको को चेतावनी दी जाती है कि वे किसी अवैध गतिविधियों में न पड़े एवं जालसाजों से बचे अन्यथा वे स्वयं उत्तरदायी होंगे।

Important Caution

Association of Private Dental Colleges of MP (APDCMP), do not have any other Branch Office all over India. The employees of APDCMP are not allowed to work outside the office nor they have any right to secure admission against the rules. Any person /agency / institution claiming to be representative of the Association of Private Dental Colleges of MP (APDCMP), and assuring to secure admissions in **Members Dental College** either through influence or by use of unfair and unethical means could be touts / agents / racketeers trying to deceive by false promises to secure admissions. The **APDCMP** is not responsible for any such illegal activity.

Admissions to **BDS course** in Private Dental Colleges of Association through **DAT-2016** Examination conducted by the Association of Private Dental Colleges of MP (APDCMP), is through centralized Counseling based purely on merit. Candidates aspiring for admissions in Private Dental College are advised to beware of unscrupulous elements and do not fall in their trap or else they will be solely responsible.

APDCMP

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DAT - 2016

**ALL INDIA ONLINE COMMON ENTRANCE TEST
FOR
ADMISSION TO BDS COURSE
IN
UNAIDED PRIVATE COLLEGES OF MADHYA PRADESH**

**By
Association of Private Dental Colleges**

OFFICE

**Association of Private
Dental Colleges
MADHYA PRADESH
(APDC)**

**Administrative Office- 45, Nishat Colony,
Gate No.1, Bhopal-462011(M.P)**

Ph. No. : 0755-2923218

Websites : www.mpapdc.com

E-mail: apdcmp@gmail.com

ALL INDIA DENTAL ADMISSION TEST FOR BDS COURSES (DAT-2016)

Association of Private Dental Colleges of Madhya Pradesh will be conducting an Entrance Test which is fair, transparent and non-exploitative. **DAT-2016** is being conducted for admission in BDS Course in Unaided Private Dental Colleges.

1. PREAMBLE

- The "Association of Private Dental Colleges of Madhya Pradesh" (APDC), hereinafter referred to as the 'Association' was established and registered under the Societies Regulation Act 1973 at Bhopal vide Regn. No. 01/01/01/30610/16 dated 12/02/2016. The Association is the Representative Body of Unaided Private Dental Colleges of Madhya Pradesh.
- **In compliance with the Dental Council of India Revised BDS Course Regulation, 2007 Association of Private Dental Colleges of MP** for Professional Institutions constituted in terms of Law laid by the **Hon'ble Supreme Court in case of Islamic Academy of Education is conducting an Dental Admission Test (DAT-2016)** for admission to BDS Course. DAT 2016 is subject to the directions of the honorable Supreme Court
- The Brochure for **DAT-2016** contains Rules for admission and information about courses and colleges. These Rules are applicable only for the Academic Year 2016-17.

2. ADMISSION COMMITTEE

- The Admission Committee will consist of 5 Members nominated by the Association. The Committee will supervise the conduct of **DAT- 2016** Entrance Examination, the preparation and declaration of the results, 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 **DAT- 2016** 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.
- **DAT-2016 shall be conducted In accordance with norms and under the guidance of Admission and Fee Regulatory Committee of Madhya Pradesh.**

3. CONDUCT OF ONLINE COMMON ENTRANCE TEST DAT- 2016

1. **APDCMP** has decided to Conduct **DAT-2016 for admission** in BDS Course for Academic Session 2016-17 in Member Dental Colleges.
2. 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 websites of Association.

COURSE

S. No.	Name of Course
1	BDS

DAT- 2016 TEST WILL BE CONDUCTED AT THE FOLLOWING CENTRES:-

CENTRE	CENTRE CODE
BHOPAL	01
INDORE	02
GWALIOR	03
JABALPUR	04
New DELHI	05
AHMEDABAD	06

If due to unforeseen circumstances during the conduct of DAT- 2016 at the center (s) and in the contingencies like incidence of mass copying, leakage of Question paper, entrance of unauthorized persons in the examination centre/hall, natural calamities, riots, etc. the Admission Committee may cancel the examination at such or all centre(s) such cancelled examination would be re-conducted on a later date at the earliest which shall further notify on the websites. **The fresh programme for conduct of DAT- 2016 at such centre(s) only.**

Note:

1. **The Association reserves the right to add or delete the Test City's/Centre(s).**
2. **Syllabus for the DAT-2016 (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 2015-16 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 Form can also be downloaded from our website. Application Form downloaded from website shall be submitted along with Demand Draft of Rs. 750/- (for BDS Course) drawn in favour of Association of Private Dental Colleges (APDC), 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 **Blue/Black Ball Point 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). 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 Examination, **45, Nishat Colony, Gate No.1, Bhopal-462011** by Registered / Speed Post/Courier/in person with **Examination Fee of Rs. 750/- by Demand Draft drawn in favour of Association of Private Dental Colleges (APDC), payable at Bhopal.** Candidates depositing Application Form in person can also deposit Examination Fee by cash in **Association Office and obtain necessary receipt.** Last date for submission of Application Forms is **12th May 2016 (upto 6:00pm)** and **14th May 2016 (upto 6:00pm)** with late fees of Rs. 250/-.
- Candidate shall write Name and Contact Number on the back of Demand Draft.
- Incomplete Application Forms will be rejected.

5. INSTRUCTIONS FOR FILLING UP 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 **Blue/Black Ball Point Pen only.** Fill the Form in English using CAPITAL LETTERS only.

- 5.1 **Name of the Candidate:** Write first name, then middle name (abbreviate if necessary) and then surname in the boxes provided on top of the circles. Leave a box blank between first, second and surname.
- 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 **Sex:** Tick the appropriate Column Male or Female in the box provided.
- 5.4 **Choice of Centers:** Tick up the choice of the two centers in order of preference and write Centre Code No. **FIRST & SECOND** choice.
- 5.5 **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.
- 5.6 Mailing address should be clearly written entirely inside the boxes. Write your address and finally PIN code. Write address in capital letters only.
- 5.7 If you have contact telephone/mobile numbers please fill in the boxes.
- 5.8 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 January, 2016 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 uses pin/staple to fix the photograph._ Do not attest or sign the photograph.**

- 5.10 Signature should be made by the Candidate himself/herself entirely inside the box.
- 5.11 **Thumb Impression:** - Apply your left thumb impression using **BLUE/RED STAMP PAD** ink in the space provided in application form. Allow the ink to get complete dry.

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) 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 **Association office** on payment of **Rs.200/-**
- (c) Any attempt on the part of a candidate to influence the authorities, directly or indirectly will be treated as disqualification of candidature for admission.

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 **Association** shall not take any responsibility for non- delivery of any communication on above account.
- (d) **Application Form Number will be allotted by the Association on receipt of the Application Form.** After the allotment of Roll Number the candidate should mention the Roll Number for all correspondence.

7. ELIGIBILITY

(A). MINIMUM EDUCATIONAL QUALIFICATION

For admission to 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/Dental Council of India as recognized qualification for admission to BDS Courses.

Note: No Domicile is required any Indian Citizen can apply.

8. SCHEDULE OF DAT - 2016

Date of Examination:	17.05.2016
Time:	09:00 AM to 12:00 NOON
Subjects:	Physics, Chemistry, Botany & Zoology

9. Mode of Examination.

The DAT-2016-17 (BDS-2016) 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/five options provided against each question on the answer sheet; the candidates will have to select only one option by marking on answer sheet with black pen. For each correct answer one mark will be awarded.

There shall be **no negative marking** for wrong answers.

Candidate will use only Black pen for marking the answers on OMR sheets.

10. DURATION AND MEDIUM OF EXAMINATION

Duration of examination will be of 3 **hours**. The medium of the test shall be English 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 then 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

- Admit Card of candidates shall be uploaded on our website three days before the Examination.
- No candidate will be allowed to appear for **DAT-2016** unless he/she holds valid admit card issued by the Controller of Examination, **DAT-2016**.
- The candidate is required to preserve the Admit Card for all future reference and correspondence.

13. AGE LIMIT

He/She shall complete the age of 17 years on or before 31st December of the year of admission to the BDS Course.

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) NRI Seats will be filled up as per Hon'ble Supreme Court judgment in I.A. No. 57 and 59 in Civil Appeal No. 4060/2009 dated 3rd April, 2012.

(B) Minimum Educational Qualification [Dental Colleges]

The candidates seeking admission against NRI quota, 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 Dental Council of India for admission to BDS courses.

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 DAT- 2016.**

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 as per para 15 (A) above.

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

S. No	Courses	Annual Fees
1.	BDS	10000 US \$

17. SEATS AVAILABLE

The availability of College wise Seats for BDS Courses to be filled during Academic Session 2016-17 are given below:-

PARTICIPATING DENTAL COLLEGES

S. No.	Name of the Institution	Course	Total No. Seats
1.	College of Dental Science & Hospital, Rau, Indore	BDS	60
2.	RKDF Dental College & RC, Bhopal*	BDS	100
3.	People's College of Dental Sciences & RC, Bhopal**	BDS	100
4.	Maharana Pratap College of Dentistry & RC, Gwalior	BDS	100
5.	Hitkarini Dental College & Hospital, Jabalpur	BDS	60
6.	People's Dental Academy, Bhopal**	BDS	100
7.	Rishiraj College of Dental Sciences & RC, Bhopal	BDS	100
8.	Guru Gobind Singh College of Dental Sciences & RC, Burhanpur ***	BDS	100
9.	Institute of Dental Education and Advance Studies (IDEAS), Gwalior	BDS	100
10.	Mansarovar Dental College, Bhopal	BDS	100
11.	Bhabha College of Dental Sciences, Bhopal	BDS	100

* Constitute Units of SRK University, Bhopal

** Constituent Units of People's University, Bhopal

Note: Seats distribution in view of Hon'ble Supreme Court directions between Various Quotas & N.R.I. will be available on website before the Counselling.

Note:

- Distribution of Seats will be available on our website before commencement of the Counselling.
- DCI and GOI may grant permission or fresh recognition or increase in intake capacity of the existing Colleges.
- In case private colleges other than mentioned in the table above who have applied to DCI / Respective Councils for academic session 2016-17 gets approval, their seats would also be available at the time of admission.
- *** 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 DAT merit 2016/ equivalent qualifying examination.

18. MODE OF SELECTION

On the basis of the marks obtained by candidates in the **DAT-2016** merit list will be prepared.

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. COUNSELLING FOR ALLOTMENT OF SEATS

- The allotment of seats shall be made to the candidates through counselling. The counselling Committee will consist of:-
 - (i) All Members of Admission Committee or any one as per the decision of Admission Committee.
 - (ii) Nominee of AFRC.
 - (iii) All the Deans / Director of Dental Colleges and nominated members of APDCMP.
 - (iv) Controller of DAT Examinations.
- 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 **DAT- 2016** 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 **DAT- 2016**.
- Candidates selected for admission shall be subject to disciplinary rules of University/ Institution/ Government and Management.
- **A Candidate selected for BDS Course 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. 1,50,000/- (BDS) Course in favour of **Association of Private Dental College (APDC)** payable at Bhopal as (Tuition fee).
2. Rank Card of **DAT – 2016**.
3. Photocopy of filled Application Form.
4. Proof of Identification.
5. Counselling fee Rs. 1000 in cash.
6. GAP Certificate if any (affidavit).

Note:

Because of any reasons candidates who are unable to submit Demand Draft at the time of counselling, will have to submit an undertaking that they will submit the required Demand Draft in **Association of Private Dental College (APDC) Or College** within 3 days after date of counselling.

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

1. Original mark sheet of qualifying examination.
2. Migration certificate (except MP Board Bhopal) from the University & Board.
3. Letter of allotment issued by the Admission Committee/ **DAT-2016** 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 DAT-2016.
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 vacate/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 Colleges shall be charged as approved by the Admission and Fee Regulatory Committee and other regulatory bodies.

DENTAL COLLEGES

S No.	Name of the Institution	Course	Tuition Fees for 2016-17
1.	College of Dental Science & Hospital, Rau, Indore	BDS	****
2.	RKDF Dental College & RC, Bhopal	BDS	****
3.	People's College of Dental Sciences & RC, Bhopal	BDS	****
4.	Maharana Pratap College of Dentistry & RC, Gwalior	BDS	****
5.	Hitkarini Dental College & Hospital, Jabalpur	BDS	****
6.	People's Dental Academy, Bhopal	BDS	****
7.	Rishiraj College of Dental Sciences & RC, Bhopal	BDS	****
8.	Guru Gobind Singh College of Dental Sciences & RC, Burhanpur	BDS	****
9.	Institute of Dental Education and Advance Studies (IDEAS), Gwalior	BDS	****
10.	Mansarovar Dental College, Bhopal	BDS	****
11.	Bhabha College of Dental Sciences, Bhopal	BDS	****

**** The Tuition Fees will be informed once fixed by AFRC other regulatory Bodies

- The fee amount given above shall be charged by the respective colleges for the Academic session **2016-17**. However, the fee if revised by the Admission and Fee Regulatory Committee/Madhya Pradesh Private Universities Regulatory Commission 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. 1.50 lakh for BDS Course 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. RANK CARD

- Rank Card will be available on website after declaration of result for downloading.
- The Rank Card will contain marks obtained by the candidate and his /her merit ranking.

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 BDS, 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 BDS and other courses in the stipulated time fixed by 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 available at Association website. Application Form downloaded from website should be submitted alongwith a Demand Draft of Rs. 750/- drawn in favour of Association of Private Dental College (APDC), 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 **DAT-2016** Examination.
8. Candidates should use only **Blue/Black Ball Point Pen** to fill the Application Form.
9. Incomplete Application Form will be rejected.
10. Left Thumb impression using **Blue/RED STAMP PAD INK** entirely inside the box provided in Application Form.

<u>CHECK LIST</u>	
1	A correct Application Form has been used and the form has been filled up correctly and signed at desired places.
2	Demand Draft of Rs. 750/- (Exam Fee) Favoring APDC, Bhopal has been enclosed in Application Form has been download from website.
3	Correct left thumb impression with red stamp pad ink has been taken,
4	No certificate has been submitted alongwith Application Form.
5	Proper colored 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.

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.
- (ix). Smoking in the Examination premises is strictly prohibited.
- (x). Tea, coffee, cold drinks or snacks are not allowed to be taken by the candidates into the Examination Halls.
- (xi). 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.
- (xii). 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.
- (xiii). For those who are unable to appear on the scheduled date of examination for any reason, re-examination shall not be held by the DAT under any circumstances.
- (xiv). The candidate are required to carry Black Ball point/Roller pen for marking the OMR answer Sheets.
- (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.

DAT - 2016**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, Nernst equation, commercial cells, fuel cell, electrochemical theory of corrosion.

- Surface chemistry. Colloids and Catalysis; Adsorption, Colloids (types preparation and properties). Emulsions. Micelles, Catalysis: Types and characteristics.

INORGANIC 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, valence, ionization energy, electron affinity, electronegativity, 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, alkenes and benzene.
- Preparation properties and uses of alkenes, alkynes and alkyne, 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 membran. 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 liportance of viruses Mycoplasma, Bacteriophage, Cynobacteria (Nostoc) and Bacteria.
- Five kingdom classification Binomil nomenclature: External morophology and life cycle of Spirogyra Mucor, Funaria Selaginella and pinus.
- Elementary knowledge of microsporogenesis megasporogenesis, Fertilisation, endosperm and embryo development in Angiosperms.
- Tissues and tissues 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 photoperidism and phytochrome.
- Ecosystem - Structures and function, Major ecosystems i.e, Lake and Forest; Food chain, Food web' and Energy 'flow. Ecological crists-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-Methos 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

MULTICELLUIARITY- STRUCTURE AND FUNCTIONS OF ANIMAL LIFE:

- Structure and function of Animal tissues Epithelial, Connective Muscular, Skeletal and Nerve.
- Histology of Manmalian oargans - 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 basic of movement Receptors.

- Endocrine system with special reference to various Endocrine glands of man and hormonal co- ordination.
- Vitamins & minerals (source and disorders due to deficiencies)

DEVELOPMENTAL BIOLOGY AND GENETICS:

- Female reproductive cycles in mammals. Gametogenesis alongwith structure of sperm and ovum.
- Types of eggs, Fertilization, cleavage types of cleavage and blastula.
- Development of mammals upto three germinal layers. Foetal membrancestructure 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 antis 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	:	15.04.2016 (Friday)
Last date for receiving complete Application Forms At Office of the Association of Private Dental Colleges of MP Upto 6:00 PM Administrative Office- 45, Nishat Colony, Gate No.1, Bhopal- 462011(M.P)	:	12.05.2016 (Thursday)
Last Date with late fee of Rs. 250/- Upto 6:00 PM	:	14.05.2016 (Saturday)
Date of Examination :	:	17.05.2016 (Tuesday)
Time of Examination :	:	09:00 AM to 12:00 Noon

FOR FURTHER ENQUIRES CONTACT

**OFFICE OF THE
ASSOCIATION OF PRIVATE
DENTAL COLLEGES OF MP (APDCMP)**

Administrative Office- 45, Nishat Colony, Gate No.1, Bhopal-462011(M.P)
Ph. No. : 0755-2923218 E-mail: apdcmp@gmail.com
Websites : www.mpapdc.com

:--:चेतावनी:--:

ऐसोसिएशन ऑफ प्राइवेट डेंटल कॉलेजों ऑफ एम.पी. की सम्पूर्ण भारतवर्ष में अन्य कोई ब्रांच नहीं है संस्था का कोई भी अधिकारी/कर्मचारी कार्यालय के बाहर जाकर काम नहीं कर सकता और ना ही नियम विरुद्ध प्रवेश दिलाने का अधिकार रखता है । ऐसे में अगर कोई व्यक्ति/ऐजेंसी/संस्था हमारी संस्था का प्रतिनिधि होने का दावा कर ऐसोसिएशन ऑफ प्राइवेट डेंटल कॉलेजों ऑफ एम.पी. एवं डेंटल कॉलेज के पक्ष में प्रवेश के नाम पर किसी छात्र/छात्राओं/अभिभावकों से आवेदन पत्र प्राप्त करें अथवा छात्र/छात्राओं/अभिभावको को डेंटल कॉलेज में प्रवेश देने का आश्वासन दे, ऐसे व्यक्ति/ऐजेंसी/संस्था अवैध गतिविधियों द्वारा छात्र/छात्राओं/अभिभावकों को गुमराह कर जालसाजी कर सकते है ऐसी अवैध गतिविधियों के लिए ऐसोसिएशन ऑफ प्राइवेट डेंटल कॉलेजों ऑफ एम.पी. एवं डेंटल कॉलेज किसी भी प्रकार से उत्तरदायी नहीं होगा ।

ऐसोसिएशन ऑफ प्राइवेट डेंटल कॉलेजों ऑफ एम.पी. में BDS में प्रवेश ऐसोसिएशन ऑफ प्राइवेट डेंटल कॉलेजों ऑफ एम.पी द्वारा आयोजित DAT-2016 परीक्षा में प्राप्त मेरिट के आधार पर सेन्टरलाईज कौंसिलिंग के माध्यम से ही होंगे। डेंटल कॉलेजों में प्रवेश हेतु इच्छुक छात्र/छात्राओं/अभिभावको को चेतावनी दी जाती है कि वे किसी अवैध गतिविधियों में न पड़े एवं जालसाजों से बचे अन्यथा वे स्वयं उत्तरदायी होंगे।

Important Caution

Association of Private Dental Colleges of MP (APDCMP), do not have any other Branch Office all over India. The employees of APDCMP are not allowed to work outside the office nor they have any right to secure admission against the rules. Any person /agency / institution claiming to be representative of the Association of Private Dental Colleges of MP (APDCMP), and assuring to secure admissions in **Members Dental College** either through influence or by use of unfair and unethical means could be touts / agents / racketeers trying to deceive by false promises to secure admissions. The **APDCMP** is not responsible for any such illegal activity.

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