

# INFORMATION BOOKLET

RAJASTHAN PRE VETERINARY TEST-2017 (RPVT-2017)  
FOR ADMISSIONS IN B.V.Sc. & A.H. DEGREE COURSE  
(SESSION 2017-18)



**RAJASTHAN UNIVERSITY OF VETERINARY AND ANIMAL SCIENCES**

**Bijey Bhawan Palace Complex  
Near Pt. Deendayal Upadhyay Circle  
BIKANER-334001, Rajasthan  
Website: [www.rajuvas.org](http://www.rajuvas.org)  
E-mail: [rpvtrajuvas@gmail.com](mailto:rpvtrajuvas@gmail.com)  
Phone No. 0151-2201183**

**Before filling online application of RPVT-2017, the candidates are asked to read this Information Booklet carefully for all essential details related to RPVT-2017 and B.V.Sc. & A.H. admissions (Session 2017-18)**

## **RPVT - 2017**

### **IMPORTANT INFORMATION AT A GLANCE**

**Official website of RPVT-2017- [www.rajivas.org](http://www.rajivas.org), E-mail id- [rpvttrajivas@gmail.com](mailto:rpvttrajivas@gmail.com) Helpline No. 0151-2201183**

**Candidates are asked to remain in continuous touch with website for all events**

|  |                  |  |
|--|------------------|--|
| Date of Examination, RPVT-2017   |                  | 11/06/2017 (Sunday)  |
| <b>DETAILED SCHEDULE</b>   |                  |  |
| <b>Submission of on-line application forms and successful final transaction of fee</b>   | Without late fee | 11.03.2017 (Saturday) to 10.04.2017 (Monday) (Till 00.00 midnight) |
|  | With late fees   | 11.04.2017 (Tuesday) to 17.04.2017 (Monday) (Till 00.00 midnight)  |
| <b>Correction of data in application form</b> (only request through E-mail- <a href="mailto:rpvttrajivas@gmail.com">rpvttrajivas@gmail.com</a> ) |                  | 18.04.2017 (Tuesday) to 20.04.2017 (Thursday)                      |
| Date for uploading of Admit Cards on website   |                  | 10.05.2017 (Wednesday)   |
| Examination Centre Cities  |                  | (01) BIKANER, (02) JAIPUR  |
| Filing of grievances on any questions by E-mail  |                  | 11.06.2017 (Sunday) up to 5.00 PM                                  |
| Display of Answer Key on website   |                  | 13.06.2017 (Tuesday)   |
| Filing of grievances, if any, on Answer key by E-mail  |                  | 13.06.2017 (Tuesday) to 15.06.2017 (Thursday)                      |
| Display of OMR Sheet of candidate  |                  | 21.06.2017 (Wednesday)   |
| Filing of grievances on OMR sheet, if any, in Part 'A' by E-mail   |                  | 21.06.2017 (Wednesday) to 23.06.2017 (Friday)                      |
| Declaration of Result  |                  | <b>27<sup>th</sup> June, 2017 (Tuesday)</b>                        |
| <b>FEE DETAILS FOR ONLINE SUBMISSION OF APPLICATION FORMS</b> (Only through online modes using any Debit/Credit Card or Net Banking)             |                  |  |
| <b>FOR All categories candidates</b>   |                  | Rs.2,000/- (Rupees Two thousands only)                             |
| <b>With late fee for all categories candidates</b>   |                  | Rs.4,000/- (Rupees Four thousands only)                            |

**Note:** The candidates are not required to send the copy of Online submitted RPVT-2017 Application form by post to the RAJUVAS, Bikaner. However, he/she is advised to preserve sufficient copies of the Online submitted RPVT-2017 Application form. This will be required to be produced at the time of admission allotment counselling.

## **GENERAL RULES FOR ADMISSION TO B.V.Sc. & A.H. DEGREE COURSE THROUGH RAJASTHAN PRE VETERINARY TEST (RPVT) – 2017**

In view of inability expressed by the Secretary, Veterinary Council of India, New Delhi to conduct All India Pre-Veterinary Test (AIPVT) for admission of students in B.V.Sc. & A.H. degree course (session 2017-18) for 85% State quota seats, as conveyed vide letter F. No. 16-6/2016-VCI/7664 dated 13<sup>th</sup> February, 2017 with copy also endorsed to the Principal Secretary, Department of Animal Husbandry and Fisheries, Government of Rajasthan, Jaipur and subsequent Notice from the Registrar, RAJUVAS, Bikaner issued vide No. (249)/RAJUVAS/Reg./Gen/2017/116 dated 18/02/2017, the Rajasthan University of Veterinary and Animal Sciences, Bikaner in its meeting dated 20/02/2017 has decided to convene RPVT-2017 for admissions to B.V.Sc. & A.H. course (Session 2017-18) in the competent authority permitted constituent and affiliated private veterinary colleges of Rajasthan University of Veterinary and Animal Sciences (RAJUVAS), Bikaner.

Accordingly, online applications are invited from eligible candidates of Rajasthan domicile only for appearing in Rajasthan Pre-Veterinary Test-2017 for admission to B.V.Sc. & A.H. Degree Course (Session 2017-18) in the competent authority permitted constituent and affiliated private veterinary colleges of RAJUVAS, Bikaner. The names of such college(s) and number of available seats in it (them) along with their category wise distribution will be notified at the time of admissions allotment counselling rounds. The application form other than by online mode will not be accepted in any case.

### **RPVT-2017 IMPORTANT INSTRUCTIONS**

**The candidates should note following carefully that:**

- (a) RAJASTHAN PRE VETERINARY TEST (RPVT)-2017 will be conducted as per provisions laid down in Minimum Standards of Veterinary Education- Degree course (B.V.Sc. & A.H.) Regulations, 2016 of Veterinary Council of India, New Delhi.
- (b) The RPVT-2017 will be held on 11/06/2017 from 10.00 AM to 1.00 PM as notified by the university in RPVT-2017 Notification No. 01/2017 issued vide No. RAJUVAS/RPVT-2017/2017/1101 dated 10/03/2017. To appear in RPVT-2017 the candidates are required to fill up the online application form on the university website ([www.rajuvas.org](http://www.rajuvas.org)) following all the instructions mentioned therein.
- (c) Mere appearing and qualifying in RPVT-2017 does not confer any right to the candidate for admission in B.V.Sc. & A.H. Degree Course. The eligibility for admission which shall be further scrutinized at subsequent stages of admission. Thus, permission to candidates to appear in RPVT-2017 will be provisional subject to his/her being found otherwise eligible for admission in B.V. Sc. & A.H. degree course. The selection and admission to B.V.Sc. & A.H. Degree Course in competent authority permitted constituent and affiliated private Veterinary colleges of RAJUVAS, Bikaner is subject to fulfilling the admission eligibility criteria, essential educational qualification, standing in

merit list of RPVT-2017, medical fitness and such other criteria including prevailing reservation policy of Rajasthan Government, University and VCI rules etc.

- (d) Applications of candidates submitting false and fabricated information will not be considered and such candidates will be further debarred from appearing in examinations conducted by the RAJUVAS, Bikaner.
- (e) The candidate should not give the postal address, contact number and e-mail ID of Coaching Centres and any E-Mitra Kiosk in their application forms.
- (f) RPVT-2017 application fee once paid is neither refundable nor transferable nor adjustable for future RPVT in part or full. Therefore, claims for refund of application fee will not be entertained in any circumstances and for reasons whatsoever may be.
- (g) After successful submission of RPVT-2017 online application form (which also includes successful fee transaction), it cannot be withdrawn.
- (h) Application once submitted cannot be withdrawn. Therefore, candidates are advised to submit very carefully only one application form with correct data. If a candidate submits more than one application form his/her candidature for RPVT-2017 will be cancelled.
- (i) Submission of online application and remittance of fee would close as per the schedule given and no request for extension of time etc. shall be entertained.
- (j) The RAJUVAS, Bikaner is not liable to be responsible for double transactions by the candidate at the time of filling of online application form. One of the double transaction may automatically be refunded in due course of time in their concerned Bank account. Therefore, candidates are advised to contact their concerned Bank for this. In case of prolonged delay in this refund process, such candidates are advised to send E-mail request on [rpvtrajivas@gmail.com](mailto:rpvtrajivas@gmail.com) along with all proofs, transaction id along with scanned copy of passbook indicating transactions. All such type of applications will be processed after completion of RPVT-2017 Examination.
- (k) The RAJUVAS, Bikaner reserves the right to withdraw permission, if any, granted inadvertently to any candidate who is not eligible to appear in the RPVT-2017, even though the Roll Number and Admit Card has been issued to him/her by the University.
- (l) Instructions in the Information Booklet are liable to change based on decisions taken by the competent authorities in this regard. In case of any ambiguity in interpretation of any of the instructions/terms/rules/criteria regarding determination of eligibility/ conduct of examination/registration of candidates/ information contained therein, the interpretation of the RAJUVAS, Bikaner shall be final and binding.
- (m) Applications of the candidates which are found incomplete for any reason/requirement (including indistinct/doubtful photograph/old photograph/black & white photograph/ photograph taken before 01/01/2017/damaged photograph/ forged photograph/ applications not in accordance with instructions/unsigned applications) or who do not fulfill the eligibility criteria and other requirements for examination and admission will be summarily rejected. The examination fee deposited will also be not refunded in such cases

- (n) All the candidates are required to appear at entrance examination at their own expenses.
- (o) For those who are unable to appear on the scheduled date of test for any reason, re-test shall not be held for them by the RAJUVAS, Bikaner under any circumstances.
- (p) Candidates are advised to regularly check the website [www.rajuvas.org](http://www.rajuvas.org) for any further updates or information.

**1. B.V.SC. & A.H. DEGREE COURSE ADMISSION ELIGIBILITY CRITERIA:**

The B.V.Sc. & A.H. degree course programme comprises of a course of study consisting of curriculum and syllabus specified in Part IV of Minimum Standards of Veterinary Education- Degree course (B.V.Sc. & A.H.) Regulations, 2016 of Veterinary Council of India, New Delhi. The course programme is spread over five and half complete professional years including a compulsory internship of “one year” duration undertaken after successful completion of all credits as prescribed in the syllabus.

A candidate shall not be admitted to Bachelor of Veterinary Science and Animal Husbandry degree course unless he/she fulfills the following criteria for admission. Therefore, before submitting the online RPVT-2017 application form the candidate should satisfy with his/her eligibility to appear in the test. The candidate is required to go through this Information Booklet very carefully and acquaint himself/herself with all the requirements with regard to his/her admission eligibility and submission online application form.

**(a) Age limit:**

**Minimum Age:** THE CANDIDATE MUST HAVE COMPLETED THE MINIMUM AGE OF **17 YEARS** ON OR BEFORE 31-12-2017.

**Maximum Age:** THE MAXIMUM PERMITTED UPPER AGE LIMIT FOR GENERAL CATEGORY CANDIDATES FOR APPEARING IN RPVT-2017 IS **25 YEARS** AS ON 31-12-2017 WITH RELAXATION OF 5 YEARS FOR THE CANDIDATES BELONGING TO RESERVED CATEGORIES.

**Note:** THE DATE OF BIRTH AS RECORDED IN THE SECONDARY EXAMINATION MARKS SHEET/ CERTIFICATE WILL BE TAKEN AS AUTHENTIC FOR THIS PURPOSE.

**(b) Essential Educational Qualifications for appearing in RPVT-2017:**

To be eligible for appearing in RPVT-2017, the candidate must have passed the Senior Secondary (of 10+2 scheme) or equivalent recognized Examination with Science Biology group from a Statutory Indian Board/University (established under act by the State Governments or Central Government) taken after 12 years of regular study, the last 2 years of study with Physics, Chemistry, Biology/Biotechnology (which shall also include a practical examination in these subjects) and any other elective subjects along with English as one of the core compulsory subject. Provided further, the candidate must have passed the aforesaid subjects individually and also separately in Theory and Practical examinations in the subjects of Physics, Chemistry and Biology/Biotechnology. Further, the General category candidates must have obtained a minimum of 50% marks in aggregate in the subjects of Physics, Chemistry, Biology/Biotechnology and English at Senior Secondary (10+2) or equivalent recognized examination. For the candidates of

reserved categories, the marks requirement will be 5% less than that prescribed for General category candidates i.e. 47.5% instead of 50% in the aforesaid subjects.

**If the candidate has passed the Senior Secondary (10+2) or equivalent examination from a Board which is not a statutory Board his/her candidature for RPVT-2017 will not be accepted. The candidate should note it carefully.**

**Admission of candidates to B.V.Sc. & A.H. degree course shall be made only on the basis of his/her merit in the RPVT-2017 examination. No other merit/weightage shall be considered for admission to B.V.Sc. & A.H. degree course.**

Candidates appearing/appeared in the qualifying examination in the year 2017 and whose result has not been declared by the last date of submission of application form may also apply for and take RPVT-2017 but they shall not be eligible for admission to the B.V.Sc. & A.H. course if they, at the time of counselling, do not produce documentary proof of passing qualifying examination with the required percentage of marks as applicable to them and mentioned in aforesaid paragraphs.

**(c) Domicile Criteria:**

The Indian Nationals of only Rajasthan domicile will be eligible to apply and appear in the RPVT-2017 subject to fulfilling the other admission eligibility conditions also.

**(d) Physical Disability:**

As per the Part III-Admission to the B.V.Sc. & A.H. Degree Course-Selection of students-7 (10) and (11) Regulations of the Veterinary Council of India-Minimum Standards of Veterinary Education-Degree Course (B.V.Sc. & A.H.) Regulations-2016, a candidate shall not be allowed admission to B.V.Sc. & A.H. Degree Course, if he/she suffers the following disabilities in physical fitness as listed below.

- a) disability of total body including disability of chest/spine more than 50 per cent.
- b) disability of lower limb of more than 50 per cent,
- c) disability of upper limb,
- d) visually handicapped candidates and those with hearing disability,
- e) Candidates with progressive diseases like Myopathies etc.
- f) Disability which otherwise would interfere in the performance of the duties of a Veterinarian.

The disability should be certified by a duly constituted and authorized Medical Board Comprising of at least three specialists, out of which two should be of the speciality concerned and the candidate has to present him/her self before the Medical Board. The last valid disability certificate of the candidate from a Medical Board should not be more than three months old from the date of submitting his/her certificate for disabled candidates.

**2. PATTERN OF RPVT:**

**(a) Pattern of the Entrance Test:**

The Entrance Test shall consist of one paper containing 180 objective type questions (four options with single correct answer) from Physics, Chemistry and Biology (Botany & Zoology) to be answered on the specially designed machine-gradable sheet using only Black Ball Point Pen which will be provided by RAJUVAS, Bikaner at examination centre. The distribution of questions will be as under:

| Subject                      | No. of Questions |
|------------------------------|------------------|
| Physics                      | 45               |
| Chemistry                    | 45               |
| Biology (Botany and Zoology) | 90               |
| <b>Total</b>                 | <b>180</b>       |

**(b) Examination Date:** The test shall be held on 11<sup>th</sup> June, 2017 (Sunday)

**(c) Examination Timings:** The Test shall be of 3 hours duration from 10.00 AM to 1.00 PM

**(d) Examination Centres:** The RPVT-2017 shall be held at the allotted examination centres located at Bikaner and Jaipur only. Efforts would be made to allot the examination centre at the place (Bikaner/Jaipur) of choice of candidates, filled by them in RPVT-2017 online application form. However, as per situation, they may be allotted examination centre anywhere at Bikaner/Jaipur. The examination centre once allotted shall not be changed in any case.

**3. Syllabus for the Examination:**

The general standard of the Rajasthan Pre-Veterinary Test -2017 will be that of 11<sup>th</sup> and 12<sup>th</sup> class under the 10+2 scheme/Pre-Medical/Intermediate Science or an equivalent recognized examination of an Indian University/State Board/CBSE. However, for convenience of the candidates, the model syllabus for RPVT-2017 has been annexed in this Information booklet.

**4. Language of the Question Paper:**

The candidates will be provided question paper booklet printed both in English as well as Hindi language. In case of any ambiguity in translation of any of the questions, its English version shall be treated as final.

**5. Application procedure to be followed strictly as per RPVT-2017 date schedule:**

To appear in RPVT-2017, the candidates will have to submit online application along with successful final transaction of fee on the University website [www.rajivas.org](http://www.rajivas.org) as per instructions given in Users Manual with under mentioned dates and fee schedule-

|  |   |                        |
|--|---|------------------------|
| Date of RPVT-2017 : 11 <sup>th</sup> June, 2017 (Sunday)   |   |                        |
| <b>SCHEDULE AND FEE DETAILS</b>  |   |                        |
| Schedule for successful final transaction of prescribed fee and on-line submission of application form <b>(Without late fee)</b> | 11.03.2017 (Saturday) to 10.04.2017 (Monday)<br>(Till 00.00 midnight) |                        |
| Schedule for successful final transaction of fee and on-line submission of application form <b>(With late fee)</b>               | 11.04.2017 (Tuesday) to 17.04.2017 (Monday)<br>(Till 00.00 midnight)  |                        |
| <b>FEE DETAILS</b><br>(applicable uniformly for all categories candidates)   | <b>(Without late fee)</b>   | <b>(With late fee)</b> |
|  | Rs. 2,000/-   | Rs. 4,000/-            |

**Note:** In addition to application fee, the candidates will also have to pay service/processing charges along with service tax, as made applicable by respective bank/agency.

**6. Corrections facility in RPVT-2017 online application form:**

The Candidates shall have the facility to make corrections/changes in the particulars whatever he/she has filled in their online application form before final submission of application form. However, after final submission of application form, genuine correction



requests, if any, may be sent by the candidate through E-mail on [rpvtrajivas@gmail.com](mailto:rpvtrajivas@gmail.com) between 18/04/2017 to 20/04/2017 up to 5.00 PM. This facility will be provided only to the candidates who have successfully submitted their online application forms along with successful transaction of fee as per prescribed date schedule. After this, no any request for corrections in application form will be entertained and the data entered in application form by the candidate will be considered as final. All Candidates should note it very carefully.

**7. Photograph and Signature on online application form:**

**FOR SECURITY AND IMPERSONATION CHECK, THE CANDIDATES APPLYING FOR RPVT-2017 ARE REQUIRED TO FOLLOW THE FOLLOWING INSTRUCTIONS CAREFULLY FAILING WHICH THEIR APPLICATION WILL BE REJECTED SUMMARILY**



- The coloured passport size photographs with white background indicating clearly the name of candidate along with the date of taking the photograph to be used for uploading on online Application and for Counselling/Admission. The photograph must be taken on or after 01.01.2017. Old photograph snapped before 01/01/2017 will not be accepted. Such application with old photograph will be rejected. The candidates should note it carefully.
- One post card size (4"x6") photograph affixed on proforma which will be collected from candidates by Centre Superintendent at Centre during RPVT-2017 Examination. The proforma will be uploaded at the University website [www.rajuvas.org](http://www.rajuvas.org) at the time of uploading the Admit Card. Before pasting this photograph candidate must mention his/her name, Application Form number, Roll number of Examination. on the proforma On the reverse side of the photograph, This photograph will be collected by the Invigilator concerned after matching the photograph with the candidate appearing in the Examination.
- Photograph should not have cap or goggles. Spectacles are allowed if being used regularly. Black & White photographs, Polaroid, indistinct, doubtful photographs, old photograph taken before 01/01/2017, damaged and forged photograph are not acceptable Applications not complying with these instructions are liable to be rejected. Candidates may please note that if it is found that photograph affixed is fabricated i.e. de-shaped or seems to be manipulated or digitally edited, the application form of the candidate will be rejected and the same would be considered as using unfair means practices and candidate would accordingly be dealt with as per the rules of unfair means.

- If name and date are written on the photograph after taking it, the Application Form will be rejected. Photograph without name and date of taking photograph will not be accepted and such application will be rejected.
- Keep four identical photographs as uploaded in RPVT-2017 online application form in reserve for subsequent uses at the time of entrance examination/ counselling/admission form.

The candidates are required to upload their signature in the appropriate box given in the online Application Form in running hand writing. Writing full name in the Box in Capital letters would not be accepted as signature and the Application Form would liable to be rejected.

Ensure that photograph and signature are uploaded in the respective fields.

The candidates are required to upload their photograph as shown above. The system will allow uploading of photograph with one face only by using the technique of face-detection.

In addition to this, it is mandatory for the candidate to bring one additional passport size photograph indicating clearly the name of candidate along with the date of taking the photograph for affixing it on the specific space in the attendance sheet.

#### **8. Admit Card:**

The Admit Card will not be sent to the candidate by post. Facility of downloading the admit card of RPVT-2017 will be provided on the university website along with a format for affixing of Postcard photograph. The candidates will have to download Admit card from his/her Login account. The admit card will bear all the relevant details. The candidates must carefully examine the admit card downloaded by him/her for all the entries made therein. If the candidate is unable to download admit card, he/she can collect in person from the office of the Convener RPVT-2017 up to 10/06/2017.

#### **9. Reporting of candidate at examination centre:**

The candidates appearing in RPVT-2017 should report at the allotted examination centre, as mentioned in the admit card, on the examination date i.e. on 11<sup>th</sup> June, 2017 as per following schedule:-

| Opening of Examination Centre | Reporting Time at Centre      | Examination Time                                    |
|-------------------------------|-------------------------------|---|
| 8.30 AM                       | Up to 9.30 AM                 | 10:00 AM to 1:00 PM                                 |
|                               | <b>No Entry after 9.30 AM</b> | <b>Cannot leave Examination Hall before 1:00 PM</b> |

#### **10. INFORMATION FOR PARENTS/GUARDIANS**

1. It is expected from parents/guardians to guide their wards appropriately on the following issues before leaving home for appearing in the RPVT-2017 Examination:
  - (a) He/She will not be allowed to enter in the examination centre after 09.30 a.m. Therefore, he/she shall leave home well in advance considering all facts like traffic, location of the centre and weather conditions, etc.

- (b) He/She will follow all the instructions and maintain the discipline in the examination.
  - (c) He/She will not breach any examination rule.
  - (d) He/She will not use and promote any unfair means activity during the examination.
  - (e) In case, he/she finds that if any candidate is using unfair means in the examination, the same may immediately be informed to the invigilators on duty.
  - (f) He/She will bring only the following at the examination centre:
    - His/her Admit Card along with passport size photograph affixed on it;
    - One Post Card Size Photograph affixed on the proforma and
    - Self attested copy of his/her Aadhaar Card/any other photo ID.
  - (g) He/She will not bring any barred item at the centre.
  - (h) He/She will cooperate with the staff at examination centre in frisking.
  - (i) He/She will report at allotted examination centre well in advance to make him/herself available for compulsory physical frisking.
  - (j) He/She will follow the dress code for appearing in RPVT-2017 Examination.
2. **In case, your ward is found not obeying above instructions, he/she will not be permitted to enter in the examination centre and will not be allowed to appear in the examination.**
  3. If your ward is found indulged in any unwanted activities he/she shall be debarred from taking this examination permanently in future and shall also be liable for criminal action and/or any other action deem fit by the Board.

#### **11. GENERAL INSTRUCTIONS TO BE FOLLOWED IN THE EXAMINATION HALL**

- (a) The Examination Centre will be opened 01 hour and 30 minutes before the commencement of the test. No candidate shall be allowed to enter in the examination centre after 09.30 am. The candidates are advised to ensure that they leave the home well in advance considering all facts like traffic, location of the centre and weather conditions, etc. After entry in examination centre, the candidates are expected to take their allotted seats in the respective examination rooms.
- (b) The candidate must show, on demand, the Admit Card for admission in the Examination Hall. A candidate who does not possess the valid Admit Card shall not be admitted to the Examination Hall under any circumstances by the Centre Superintendent.
- (c) The Candidate should report with downloaded admit card and with proforma which is an attachment of Admit Card with Post Card Size Photograph duly affixed on it, at the allotted Examination Centre.
- (d) 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 signatures in the place provided in the OMR Answer Sheet.
- (e) A seat with a roll number will be allotted to each candidate. Candidates must find out and occupy their allotted seats. If a candidate is found appearing in the Test from a seat or room other than the allotted one to him/her, his/her candidature shall be cancelled.
- (f) A candidate who comes after 09.30 am shall not be permitted to enter in the examination centre.

- (g) Candidates are not allowed to carry any material except their Aadhaar Card/Photo ID, Admit Card and photographs (as already mentioned) inside the Examination Hall.
- (h) The conduct of RPVT-2017 Examination would be videographed. The candidates are required to keep their head in upright position and face the camera during the videography so that their identity could be clearly established.
- (i) No candidate will leave his/her seat or the Examination Room/Hall until the Test concludes as per schedule. Candidates should not leave the Room/Hall without handing over their Answer Sheets to the invigilator on duty.
- (j) Smoking by any means in the examination centre is strictly prohibited.
- (k) 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.
- (l) Before the start of test, some important instructions will be communicated to the candidates by the invigilator for strict compliance by the candidates.
- (m) A signal will be given at the beginning of the examination and at half-time. A signal will also be given before the closing time when the candidate must stop marking the responses.
- (n) The candidate must sign on the Attendance Sheet at the appropriate place, after the commencement of examination. The candidates are also required to put their Thumb Impressions in the space provided on the Attendance Sheet.
- (o) If required the candidate will have to give his/her thumb impression in the dongle (Electronic device) to link with Aadhaar to confirm the identity of the candidate.
- (p) The candidate will check and ensure that the Question paper booklet contains as many number of pages as are written on the top of the cover page.

## **12. BREACH OF EXAMINATION RULES**

### **1) BARRED ITEMS**

Candidates are not allowed to bring with them at the examination centre any barred item or any item which could be used in unfair means. The candidates will be subjected to extensive and compulsory frisking before entering the examination centre with the help of highly sensitive metal detectors. Possession of any such article with the candidates inside the centre premises will attract the penalties of unfair practices.

Therefore, candidates are advised in their own interest not to bring any of the barred items to the venue of the examination as arrangement for safe keeping of articles/items belonging to the candidates will not be made at examination centre and candidates found in possession of these items will not be allowed entry inside the examination centre. The barred items may include following:

- (a) Any stationery copying item like textual material (printed or written), bits of papers, book(s), note, Geometry/Pencil Box, Plastic Pouch, Calculator, Pen, Scale, Writing Pad, Pen Drives, Eraser, Calculator, Log Table, Electronic Pen/Scanner etc.

- (b) Any communication device and their accessories like Mobile Phone, Bluetooth, Earphones, Microphone, Pager, Health Band/Laptop/ or any other electronic gadgets etc.
- (c) Other items like Wallet, Goggles, Handbags, Belt, Cap etc.
- (d) All ornaments like Ring, Earrings, Nose-pin, Chain/Necklace, Pendants, Badge, Brooch etc.
- (e) Any Watch/Wrist Watch, Bracelet, Camera, etc.
- (f) Any metallic item
- (g) Any eatable or drinkable item opened or packed including, water bottle, tea, coffee, cold drinks, snacks etc.
- (h) Any other item which could be used for unfairmeans, for hiding communication devices like camera, Bluetooth device etc.

## 2) **DRESS CODE:**

The candidates are instructed to follow the following dress code while appearing for RPVT-2017:

- (a) Light clothes with half sleeves not having big buttons, brooch/badge, flower etc. with Salwar/ Trouser.
- (b) Slippers, sandals with low heels and not the shoes.

## **13. UNFAIRMEANS PRACTICES**

**(a) Unfairmeans practice is an activity that allows a candidate to gain an unfair advantage over other candidates. It includes, but is not limited to:**

- i) Having in possession any barred item or article which has been prohibited in examination centre and which may be used for unfair practices.
- ii) Writing questions or answers on any material other than the answer sheet given by the Centre Superintendent for writing answers;
- iii) Tearing of OMR Answer Sheet, any page of the Question paper booklet etc.;
- iv) Contacting or communicating or trying to do so with any person, other than the Examination Staff, during the examination time in the examination centre;
- v) Taking away the answer sheet out of the examination hall/room;
- vi) Smuggling out Question Paper or its part or smuggling out answer sheet or its part thereof;
- vii) Threatening any of the officials connected with the conduct of the examination or threatening any of the candidates;
- viii) Using or attempting to use any other undesirable method or means in connection with the examination;
- ix) Manipulation & fabrication of online documents viz. admit card, rank letter, self declaration, etc.;
- x) Forceful entry/exit in/from Examination Centre/Hall;
- xi) Use or attempted use of any electronic device after entering the examination centre;

- xii) Affixing/uploading fabricated photograph or photograph of other candidate on the application form/admit card/proforma;
- xiii) Erasing or obliterating any information printed on the OMR sheet;
- xiv) Providing wrong information on the answer sheet;
- xv) Creating obstacles in smooth and fair conduct of examination.
- xvi) Making a false representation pertaining to the eligibility of the candidate to appear in the examination;
- xvii) Communicating or attempting to communicate with the Convener or any person of his/her office or any person connected with the conduct of examination with the object of finding out the name and address of the paper-setter or examiner, or unduly influencing any person connected with the conduct of examination; Any attempt on the part of the candidate to influence directly or indirectly the admission procedures will be viewed seriously;
- xviii) Talking to another candidate or any unauthorized person inside or outside the examination room during the examination hours without permission of a member of the supervisory staff, before handing over the OMR Answer Sheet to the invigilator;
- xix) Giving or receiving assistance of any kind, directly or indirectly, or attempting to do so in answering the question paper to or from any other candidate/person in or outside the Examination Hall during the examination hours;
- xx) Anything written or signs, made on the body parts of the candidate or his/her clothes/garments, hand-kerchief etc.
- xxi) Anything written, or signs made on the admit card/ bits of paper/ question paper booklet.
- xxii) Swallowing or attempting to swallow, or destroying or attempting to destroy a note or paper or any other material, or running away with the material with the intention of destroying the evidence of using unfair means, or being guilty of causing disappearance or destruction of any such material either by himself/herself or with the assistance of any other person;
- xxiii) Impersonating any candidate or getting impersonated by any person for taking the examination by any means;
- xxiv) Tampering with records of an examination;
- xxv) Using any obscene or abusive language in his/her OMR answer sheet;
- xxvi) Cheating or attempting to cheat the University in any manner
- xxvii) Any act or omission, by or on behalf of the candidate connected with the examination, whether prior to or subsequent to such examination or the result thereof, which in the opinion of the University is unfair means;

**(b) Disorderly Conduct:**

The candidate in the examination Hall or outside but within the campus of the Examination Centre during the examination Hall will be under the disciplinary control of the Superintendent of the Centre or his nominee and shall obey his instructions.

**Disorderly conduct includes:**

- i) Disobeying the instructions of the Superintendent/ Addl. Superintendent /Asstt. Superintendent / Invigilator or Observer or any member of the Flying Squad or any other member of staff working at the examination centre.
- ii) Threatening, intimidating or assaulting the Superintendent, Invigilator, any member of the Flying Squad or Observer or any other member of staff working at the examination centre, or another candidate in connection with the examination before, during or after the examination hours.
- iii) Misbehaving with the Superintendent, Invigilator or any member of the Flying Squad or Observer or any other member working at the examination centre in connection with the examination before, during or after the examination hours;
- iv) Leaving the examination room before the completion of examination and/or without handing over the answer sheet to the Invigilator or without signing the attendance sheet;
- v) Tearing off or mutilating the OMR answer sheet or Question Booklet.
- vi) Disturbing or disrupting the conduct of examination or attempting to do so;
- vii) Inciting or compelling any other candidate to leave the examination room or to disturb/ disrupt/boycott the examination;
- viii) Bringing into the Examination Hall/Centre (a) any weapon or (b) any other material objected to by the Invigilator/Centre Superintendent or any other member of the Supervisory Staff;
- ix) Appearing in the examination without being in possession of the Admit Card issued by the University for the said examination;
- x) Refusing to be searched by the Invigilator/Centre Superintendent/any other member of the Supervisory Staff/any member of the Flying Squad, or obstructing or hindering such search in the Examination Hall, Verandah, Urinal, etc.

**(c) PUNISHMENT FOR USING UNFAIRMEANS PRACTICES:**

During the course of examination, before or after the examination if a candidate is found indulged in any of the above or similar practices and thus, found guilty of unfair means or disorderly conduct at or in connection with the RPVT examination, he/she shall be deemed to have used unfair practices and booked under UNFAIRMEANS (U.F.M.) case. Such candidate, shall at the discretion of the University, be punished with one or more of the following:

- i. Cancellation of his/her present examination.
- ii. Debarring the candidate from appearing at any future RPVT examination of the University permanently or for a stated period;

In addition to above i) and ii) the candidate shall also be liable for criminal action as per applicability;

**14. ABOUT EXAMINATION:**

**1) The Question Paper Booklet**



- (a) Fifteen minutes before the commencement of the test every candidate will be given a sealed Question paper booklet. The OMR answer Sheet will be provided along with the sealed Question paper booklet.
- (b) Immediately on receipt of the Question paper booklet and the OMR answer sheet, the candidates will fill in the required particulars on the cover page of the Question paper booklet and also on OMR answer sheet with Black Ball Point Pen provided at the Centre. Candidates will not open the Question paper booklet until asked to do so by the invigilator.
- (c) Five minutes before the commencement of the test, the candidate will be instructed to break/ open the seal of the Question paper booklet. The candidate has to fill the Roll No., Question paper booklet series and other desired information in the OMR answer sheet.

2) **The OMR Answer sheet:**

- (a) **Immediately after providing the OMR answer sheet by the invigilator, the candidate should make the following entries and darken the corresponding circles in the OMR answer sheet very carefully. These include-**
  - **Part 'A' of OMR Answer sheet**
    - Roll No.
    - Question Booklet No.
    - Booklet Series code A, B, C and D
    - Gender
    - Physically Handicapped category (if applicable)
    - Category (Unreserved, OBC, SC, ST). Additionally, the candidates belonging to ST category and are domicile of Scheduled Tribal Area of Rajasthan must also indicate their additional category as STA)
    - Date of Birth
  - **Part 'C' of OMR Answer sheet**
    - Signature of Candidate
    - Name of Candidate (In BLOCK Letters)
  - **Part B of OMR Answer sheet**
    - After making all the entries in the part 'A' and Part 'C' of the OMR Answer sheet, the candidate should proceed to solve the question paper and darken the corresponding circles in the part 'B' of OMR Answer sheet.
- (b) If these entries in OMR Answer sheet are not correctly made or corresponding Ovals are not properly darkened, the OMR answer sheet shall be rejected.
- (c) Unsigned OMR answer sheet shall be rejected.
- (d) After completing the test and before handing over the OMR answer sheet, the candidate should check again that all the particulars required in the OMR answer sheet have been correctly written and marked.
- (e) Candidates should ensure before leaving the Examination Hall that they have handed over the OMR answer sheet to the invigilators on duty. The OMR Answer Sheet of RPVT-2017 will be retained at the examination centre.



- (f) The candidate will be allowed to take with him/her the Question Paper Booklet after completion of examination.

### 3) **Marking the Responses**

- Use only Black Ball Point Pen to darken the appropriate circle. The pen will be provided at the centre.
- Mark should be dark and should completely fill the circle.
- Darken only one circle for each entry as the Answer once marked cannot be changed.
- A light or faint darkened circle may be treated as a wrong method of marking and may be rejected by the Optical Scanner.
- Mark the responses only in the space provided.
- Each question shall have four options to answer. The OMR answer sheet shall be having four empty circles for each question, in order of answers A, B, C, D. The candidate will indicate his/her response to the question by darkening the appropriate circle against A or B or C or D for each question completely with Black Ball Point Pen.
- The responses given by the candidate in the OMR sheet will be evaluated by the method of Optical Mark Recognition by the computer and in case any candidate does not follow the correct method of marking the responses his response may not be recognized by the computer.

### **SOME EXAMPLES OF WRONG/CORRECT METHOD OF MARKING**

| WRONG METHOD |  |  |  |  |
|--------------|--|--|--|--|
| 021          |  |  |  |  |
| 022          |  |  |  |  |
| 023          |  |  |  |  |
| 024          |  |  |  |  |
| 025          |  |  |  |  |
| 026          |  |  |  |  |
| 027          |  |  |  |  |
| 028          |  |  |  |  |

| CORRECT METHOD |  |  |  |  |
|----------------|--|--|--|--|
| 021            |  |  |  |  |
| 022            |  |  |  |  |
| 023            |  |  |  |  |
| 024            |  |  |  |  |
| 025            |  |  |  |  |
| 026            |  |  |  |  |
| 027            |  |  |  |  |
| 028            |  |  |  |  |

### **Changing an Answer is not allowed**

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

#### **4) Scoring and Marking**

- (a) **Each question carries 4 marks. For each correct response the candidate will get 4 marks. For each incorrect response one mark will be deducted from the total score.** No deduction from the total score will, however, be made if no response is indicated for an question in the OMR answer sheet. The candidates are advised not to attempt such question in answer sheet, if they are not sure of the correct response. **More than one answer indicated in a question will be deemed as incorrect response and will be negatively marked.**
- (b) Any Stray mark on the OMR Answer Sheet & Question Booklet or damage to the OMR Answer Sheet/Overwriting/ cutting/ erasing and application of white fluid on OMR Answer Sheet shall also lead to rejection.
- (c) For the purpose of evaluation, the Question paper booklet code as printed in the Answer Sheet will be accepted as final.

#### **5) Rough Work**

The candidate will not do any rough work or writing work on the OMR Answer Sheet. All rough work is to be done in the Question paper booklet itself.

- ❖ The candidate shall not be allowed to go outside the Examination Hall/ Centre till completion of the examination. The candidates should not leave the Examination Hall without handing over their OMR Answer Sheet to the invigilator on duty.
- ❖ The candidate shall maintain silence and attend to their paper only. Any disturbance by the candidate at the Examination Centre/Hall will be deemed misbehaviour and the candidate(s) involved in such activity shall forfeit his/her right to continue in the examination. The decision of the Centre Superintendent shall be final and conclusive in the matter.
- ❖ The candidate must ensure that both the invigilators present in the examination Hall have put their signatures in the space provided on the OMR answer sheet. **At the end of examination, the OMR answer sheet must be handed over to the Invigilator before leaving the examination room.**
- ❖ **THE RPVT-2017 MARKS SHEET** can be downloaded from the University website by the candidate after the declaration of result. No mark sheet will be sent by post to the candidate by the University.
- ❖ In case of wrong and/or multiple correct answers to a question, the Committee of experts will take appropriate decision for award of marks.
- ❖ The allotment of Centre, Roll No. and seating arrangement will be at the discretion of the University.
- ❖ Filing of grievances by the candidate regarding question may be filled up to 5.00 PM only of the day of examination i.e. 11/06/2017.

6) **WRONG ENTRIES MADE BY THE CANDIDATES , IF ANY, IN PART 'A' OF THE OMR ANSWER SHEET AT THE TIME OF EXAMINATION:**

7) **Re-evaluation/Re-checking:**

Evaluation of the OMR answer sheet of RPVT-2017 will be done by scanning through the optical mark reader (OMR). As the OMR answer sheets are computer readable and evaluated with extreme care and repeated scanning coupled with physical verification at random, there shall be no provision for rechecking and re-evaluation of OMR answer sheets. Thus request for Re-evaluation/Rechecking of OMR answer sheet will not be entertained under any circumstances No correspondence in this regard shall be entertained.

**15. POST EXAMINATION ACTIVITIES AND DECLARATION OF RESULT:**

**1. DISPLAY OF OMR SHEETS AND RESPONSES ON WEBSITE**

(a) The RAJUVAS will display the images of OMR Answer Sheets and Responses graded by the Machine of all the candidates on the website [www.rajuvas.org](http://www.rajuvas.org) on 21/06/2017. **All candidates are advised to remain in touch with the website [www.rajuvas.org](http://www.rajuvas.org) for viewing and downloading of his/her answer sheet and responses captured by the machines probably if there are any grievances in the Part 'A' of the OMR answer sheet, the corrections are invited through E-mail between 21/06/2017 to 23/06/2017 up to 5.00 PM.**

**2. Display of Answer Key of RPVT-2017 on University website and filing of grievances, if any, regarding answer key.**

The answer key of the RPVT-2017 will be displayed on 13-06-2017 (Tuesday) on university website. Grievances, if any, can be filed to the Convener, RPVT-2017 in person in writing with its supporting documents in the working hours from 13-06-2017 to 15-06-2017 up to 5.00 PM.

**3. DECLARATION OF RESULT**

The RAJUVAS will conduct the **RPVT – 2017** Examination, evaluate the Answer Sheets and the result will be hosted on website [www.rajuvas.org](http://www.rajuvas.org) on 27/06/2017. The RAJUVAS will prepare the merit list of RPVT-2017 appeared candidates as per their marks scores.

**4. Rules for breaking tie:**

In case of candidates securing equal marks (tie) in the RPVT-2017 merit, the tie shall be broken to determine merit amongst themselves as per the procedure given below, in the same serial order:

(a) One who has secured more marks in Science Biology group subjects (Physics Chemistry and Biology) at the Senior Secondary (10+2) examination or its equivalent recognized examination.

(b) Among the candidates securing equal number of marks in the Science Biology Group subjects at the Senior Secondary (10+2) examination or its equivalent recognized examination, preference in order will be given to the candidate who has passed this qualifying examination in lesser number of attempts.

**5. If there is further tie, preference in order will be given to the candidate who has secured more marks in Secondary school examination or its equivalent recognized examination.**

As soon as the result is ready, RAJUVAS will host the results on the website and thereafter candidates may download the Result Sheets.

All Candidates appearing in **RPVT- 2017** Examination must remain in **touch with the websites of RAJUVAS ([www.rajuvas.org](http://www.rajuvas.org))** till conclusion of final round of Counselling.

**6. RULES FOR RE-CHECKING/RE-EVALUATION OF ANSWER SHEETS**

The machine – gradable Answer Sheets are evaluated with extreme care and are repeatedly scrutinised.

There is no provision for re-checking/re-evaluation of the answer sheets.

**No correspondence in this regard will be entertained.**

**7. WEEDING OUT RULES**

The record of RAJASTHAN PRE VETERINARY TEST-2017 will be preserved only up to 60 days from the date of declaration of result unless otherwise directed by any Hon'ble court of law.

### **Admission procedure to B.V.Sc. & A.H. degree course programme**

After declaration of RPVT-2017 result, the admission allotments on Regular and Payment seats will be made to B.V.Sc. & A.H. degree course programme in competent authority permitted constituent and affiliated private veterinary colleges of Rajasthan University of Veterinary and Animal Sciences, Bikaner. The admission allotments will be done through process of required online counselling rounds by the Central UG Admission Board of the University as per overall merit of RPVT-2017, following prevailing Rajasthan State Reservation Policy and the rules of Veterinary Council of India, New Delhi, regulations and directives and Rajasthan University of Veterinary and Animal Sciences, Bikaner. Admissions will also be made in the college(s), if such college (s) is/are permitted for admissions before closure of the admissions by the competent authority and consequent to any such decision of the university, as per the terms & conditions imposed in the said permission. However, no any admissions will be made on any type of seat including management seat in any of the permitted constituent and affiliated private veterinary colleges after 30<sup>th</sup> September, 2017 for the session 2017-18. Thus, the admission process (which includes deposition of all the original documents and complete prescribed fees) in all the permitted constituent and affiliated private colleges will be completed by 30<sup>th</sup> September 2017 as per MSVE-2016.

**All the successful and eligible candidates of RPVT-2017 desirous of admission to B.V.Sc. & A.H. Degree Course will have to participate in online counselling process with prescribed fee (will be notified at the time of counselling) as per counselling schedule given in the counselling Notification, through publication in State level news papers (which will be issued in due course of time after declaration of RPVT-2017 result) as well as its availability on university website ([www.rajuvas.org](http://www.rajuvas.org)). For the candidate not participating in the online counselling process as per notified schedule, for reason whatsoever may be, it shall be presumed that he/she is not interested in seeking admission in this course and thus he/she will automatically forfeit his/her right of admission. Thus he/she will not be considered for seat allotment during online counselling process. The candidate will solely be responsible for the same. Further, the candidate found unsuitable by the Central UG Admission Board at the time of verification of documents will be rejected.**

**No personal intimation regarding the counselling will be given to the candidates individually by post or otherwise.**

The candidate not found fulfilling the eligibility and other required conditions/criteria for admission to B.V.Sc. & A.H. degree course at the time of counselling will forfeit his/her claim for admission and will not be considered for seat allocation during online counselling process. The candidature in such cases shall be rejected summarily.

**The physically handicapped candidates, claiming admission under 3% reserved seats for physically handicapped persons, in B.V.Sc. & A.H. degree course through RPVT-2017, will be required to report in person, as called by the Chairman, Central UG Admission Board, along with their all the original documents as required for admission along with the issued valid disability certificate. If required, they can also be directed for their disability medical check-up at hospital attached to Govt. Medical College, Bikaner.**

Merely calling for counselling and admission process as per counselling notification does not guarantee the candidates for the right of admission.

The admission shall be treated as provisional subject to the final decision of any pending case(s) in any court of law, if applicable to these admissions. Further, the provisional status of admission shall stand cleared only after fulfilling the eligibility and enrolment by the university. No TA & DA would be paid to candidate called for counselling /admission.

All the judgments relevant to these admissions, passed by any Hon`ble court of law as well as rules existing at the time of counselling will be applicable on these admissions and the candidates will have to abide compulsorily with such judgments, rules and the changes.

The decision of the Central UG Admission Board pertaining to any matter/dispute in the counselling/admission shall be final and binding to the candidates.

#### **1. Reservations:**

The admissions of eligible candidates in B.V. Sc. & A.H. degree course on regular and payment seats will be done on the basis of RPVT-2017 merit and as per prevailing rules for reservations along with sub-reservations, if any, as specified by the Government of Rajasthan for Scheduled Castes (SC), Scheduled Tribes (ST), Other Backward Classes (OBC) including such concerned castes in Rajasthan State lists only and also other reservation (s) and change (s), if any, in reservation rules/policy as prevailing at the time of counselling. Presently following reservations and sub-reservations are applicable on admissions:-

- i) Sixteen per cent (16%) seats are reserved for natural born (not adopted) candidates belonging to Scheduled Castes (SC) as notified in the Presidential order for the state of Rajasthan and who fulfill other eligibility conditions for admission. Out of these reserved seats, 25% seats shall be reserved for girl candidates of Scheduled Castes (SC).
- ii) Twelve per cent (12%) seats are reserved for natural born (not adopted) candidates belonging to Scheduled Tribes (ST) as notified in the Presidential order for the state of Rajasthan and who fulfill other eligibility conditions for admission. Out of these reserved seats, 45% seats shall be reserved for candidates of Scheduled Tribes (ST) belonging to Scheduled Tribal Area's as notified by Govt. of Rajasthan. Out of these reserved seats, 25% seats shall be reserved for girl candidates of Scheduled Tribes (ST).
- iii) Twenty one per cent (21%) seats are reserved for natural born (not adopted) candidates belonging to Non-creamy layer Other Backward Classes (OBC) as notified in the Presidential order for the state of Rajasthan and who fulfill other eligibility conditions for admission. Out of these reserved seats, 25% seats shall be reserved for girl candidates of Non-creamy layer Other Backward Classes (OBC).

**The OBC Category certificate (valid only for the castes included in the list of Rajasthan state) must be issued by competent authority on or after 01-01-2017 wherein creamy layer status would have been clearly mentioned.**

**FURTHER THE DIGITAL OBC CERTIFICATE MUST HAVE BEEN ISSUED ONLY IN ACCORDANCE TO AND FOLLOWING THE CONTENTS AND DIRECTIVES OF THE CIRCULAR NO. प0 7(8)कार्मिक/क-2/2008 DATED 17/09/2012 OF DEPARTMENT OF PERSONNEL (क-2), GOVERNMENT OF RAJASTHAN, JAIPUR. THE OBC CERTIFICATE ISSUED IN RESPONSE TO OLDER NOTIFICATIONS AND OLD PROFORMA WILL NOT BE CONSIDERED.**

**The OBC candidates falling under creamy layer will be treated as candidates of General category.**

- *OBC candidates claiming reservation of seat should not belong to Creamy Layer. The last three years Income Tax Returns / Form No. 16 of their parents ending 31.03.2017 as proof of Non-Creamy Layer status should be produced at the time of counselling along with the original OBC Certificate to verify the claim of a seat under these categories by the Applicant.*
- *Income certificate from competent District Revenue Authority be produced in case the parents are not filing any income tax.*
- *Whenever the parents are employed in Government / Public Sector Enterprises, a recent certificate from their employer indicating their Designation and Class / Group and basic per month as on 31.03.2017 has also to be submitted for their claim of seat under OBC category.*

**NOTE: THE DIGITAL CASTE CERTIFICATE WITH RESPECT TO SCHEDULED CASTE, SCHEDULED TRIBE AND, OTHER BACKWARD CLASSES SHOULD BE STRICTLY, IN PRESCRIBED PROFORMA, ISSUED BY DESIGNATED COMPETENT AUTHORITY WITH RESPECT TO CASTES INCLUDED ONLY IN RAJASTHAN STATE LIST.**

**ONLY THOSE CANDIDATES OF RAJASTHAN DOMICILE WHOSE RESPECTIVE CASTE UNDER CATEGORIES OF SC, ST AND OBC HAVE BEEN NOTIFIED AND INCLUDED IN THE STATE LIST OF RAJASTHAN WILL BE CONSIDERED IN THAT PARTICULAR CASTE CATEGORY.**

**FURTHER, THE CANDIDATES OF ST CATEGORY WHICH ARE OF DOMICILE OF SCHEDULE TRIBAL AREA SHOULD HAVE TO PRODUCE SPECIAL DOMICILE CERTIFICATE IN PROFORMA ISSUED BY DESIGNATED COMPETENT AUTHORITY IN ADDITION TO THE RAJASTHAN DOMICILE CERTIFICATE.**

- iv) **General Seats**-After deducing reservations for SC, ST and OBC categories as mentioned above, the remaining regular and payment seats will be treated as General seats (Unreserved). Out of these General seats (Unreserved), 25% seats shall be reserved for girl candidates.
- v) Three per cent (03%) of the total seats are reserved for Physically Handicapped candidates. The seats reserved for Physically Handicapped candidates shall be derived out of the prescribed seats for categories of Scheduled Caste, Scheduled Tribes, Other Backward Classes, Special Backward Classes and General seats (Both Boys and Girls) as per standing of the Physically Handicapped candidates in RPVT-2017 merit. Thus, the physically handicapped category candidates provided admission on their merit, shall occupy the seat of respective category (General/OBC/SC/ST-Boys and Girls) to which they belong and consequently the number of seats available to non-physically handicapped/disabled candidates in that category shall stand reduced by equivalent numbers.

## **2. Fees of Regular seats and Payment seats:**

The B.V.Sc. & A.H. degree course programme comprises of a course of study consisting of curriculum and syllabus specified in Part IV of Minimum Standards of Veterinary Education- Degree course (B.V.Sc. & A.H.) Regulations, 2016 of Veterinary Council of India,



New Delhi, spread over five and half complete professional years including a compulsory internship of “one year” duration undertaken after successful completion of all credits as prescribed in the syllabus.

The fee schedule on Regular and payment seats in constituent and affiliated private veterinary colleges of the University will be notified at the time of counselling for admissions. The professional fees on payment seat for the first professional year of B.V.Sc. & A.H. will have to be deposited at the time of admission along with other Regular college fees. The professional fees for subsequent professional years will have to pay at the start of each of these classes along with regular college fees. If any student fails in any of the professional year, he/she would have to pay the same additional amount of professional fees per professional year over and above the regular fees of College/Hostel/any other for repeating the programme (s) in which he/she has failed.

However, if any candidate is reshuffled from payment seat to regular state seat during the course of different rounds of counselling, if held before the closure of admissions, his/her payment seat fees (only professional fees) only will be refunded to him/her.

Once all the regular seats of the concerned college are filled and thus, admission process for that college is completed, no reshuffling process will be undertaken by the University and the candidate will have compulsorily to abide with his/her decision to opt for admission on payment seat, even in the event of any Regular seat, subsequently fallen vacant under any of the category due to any dropout of admission by the candidate(s) or by the University due to reason whatsoever may be in same or subsequent academic years under Regular State seats after declaration of closure of admissions for session 2017-18.

In the event of withdrawal of admission from the course by the admitted candidate, the extent of refund of fee paid by him/her will be decided as per guidelines issued by the UGC, New Delhi.

### **3. ORIGINAL DOCUMENTS VERIFICATION AT THE TIME OF COUNSELLING:**

**The candidates must bring compulsorily the required original documents, for verification on the day of admission process for verification of is admission eligibility, failing which they will not be considered for admission. The list of such documents is as under**

- i. Two identical colour photographs with name and date of taking photograph. The photograph should be same as uploaded for online application form of RPVT-2017 as per instructions.
- ii. RPVT-2017 Registration details (Online Application Form) filled at the time of applying to appear in RPVT-2017.
- iii. Admit card of RPVT-2017.
- iv. RPVT-2017 Entrance Examination Result sheet.
- v. Copy of Online Registration form for Rajasthan State Counselling, submitted on university website [www.rajuvas.org](http://www.rajuvas.org) for admission under state quota seats.
- vi. Mark sheet & Certificate of Senior Secondary or equivalent recognized Examination.
- vii. Mark sheet of 10+1 class.
- viii. Mark sheet and Certificate of Secondary or equivalent recognized Examination.
- ix. Character Certificate (in the proforma of Institute) issued from the school/college last attended.



- x. Valid digital Caste Certificate as on the date of counselling, as applicable with respect to Caste categories included in the Rajasthan state lists of SC, ST, Non-creamy layer OBC categories issued by competent authority.
- xi. The income certificate of parents employed in Government/Public Sector Enterprises/ Autonomous bodies/Private Organizations or Institutes (In proforma for the financial year 2016-17 issued by employer, as proof of Non-Creamy Layer status, should be produced at the time of counselling along with the original Non-creamy layer OBC/SBC Certificate to verify the claim of a seat under these categories by the Applicant. Income certificate from competent District Revenue Authority be produced in case the parents are not filing any income tax.
- xii. Domicile Digital Certificate of Rajasthan State issued in proforma by competent authority.
- xiii. Transfer Certificate of last Institute, if at present no admission has been taken in any Institute.
- xiv. The candidate claiming admission under physically handicapped category must bring compulsorily the certificate showing his/her physical disability bearing his/her photograph on it, issued only by a Medical Board constituted by authority of any Govt. Medical College of Rajasthan following instructions mentioned in this Information booklet.
- xv. All uploaded annexures to be completely filled

If the original documents of candidate are lying deposited in other college/Institute then he/she will be allowed to participate in counselling under the following conditions.

- [1] A Letter / Document in Original signed by the Principal / Dean of the Institute mentioning the exact date of admission and list of the original certificates / documents retained in that College/ Institution.
- [2] The fee receipt for the admission issued by the college in Original.
- [3] Attested photocopies of all certificates / documents retained in that college are to be submitted.
- [4] The candidate will have to deposit Rs. 5,000/- in cash as security money which will be refunded to back, if he/she deposits the original documents within a period of two weeks failing which this amount will be forfeited and his/her claim for the seat offered in the counselling will stand cancelled automatically.

**The original documents submitted at the time of counselling, if found defective/forged, the eligibility for admission will be cancelled. Also, if for the reason(s), to be recorded in the writing, the Central UG Admission Board suspects that a particular candidate has obtained his/her documents including caste certificate and income certificates of parents by misrepresenting the facts, the matter will be referred to the concerned District Magistrate. Criminal action may also be initiated in such cases.**

#### 4. **MEDICAL EXAMINATION:**

All the candidates provisionally admitted to B.V.Sc. & A.H. course will have to submit Physical Fitness Certificate from Medical Jurist of Govt. Hospital / Medical College. The admission of candidate found unsuitable in Physical Fitness will be cancelled.

5. **CLOSURE OF ADMISSIONS:**

Once all the seats at the college, where admission are being made, the admission for that batch will be declared closed for that college by the Chairman of the Faculty of Veterinary and Animal Science on the recommendation of Central UG Admission Board. After declaration of closure of admission no admission will be given and no reshuffling of candidates including reshuffling from payment seat to regular seat will be done, even if any seat(s) falls vacant due to reason whatsoever may be (including admission withdrawal/dropping from the course programme at any time of the course duration by the candidates/cancellation of the admission including admission cancellation in accordance to the attendance rules etc).

Further, the admissions for session 2017-18 will be closed on 30/09/2017 in the constituent and university affiliated private veterinary colleges i.e. no any admissions will be given after 30/09/2017.

The Rajasthan University of Veterinary and Animal Sciences, Bikaner reserves the right to admit or reject admission of any candidate without assigning any reason. The jurisdiction for legal case arising out of admission B.V.Sc. & A.H. programme on the basis of RPVT-2017 shall be limited to the Hon'ble High Court of Judicature for Rajasthan only. The candidate (s) before approaching the any Hon'ble Court, should file an appeal to the University regarding their grievance.

6. **Changes in Rules:**

Changes/Amendments in the rules can be done at any time by the Rajasthan University of Veterinary and Animal Sciences, Bikaner even after the declaration of the result of RPVT-2017 or at the time of admission to the B.V.Sc. & A.H. degree course. The candidates will have to abide compulsorily with such changes.

## Model Syllabus for RPVT-2017

### PHYSICS

| S. No. | CLASS XI                                     | CLASS XII  |
|--------|--|--|
| 1.     | Physical world and measurement               | Electrostatics                                     |
| 2.     | Kinematics                                   | Current Electricity                                |
| 3.     | Laws of Motion                               | Magnetic Effects of Current and Magnetism          |
| 4.     | Work, Energy and Power                       | Electromagnetic Induction and Alternating Currents |
| 5.     | Motion of System of Particles and Rigid Body | Electromagnetic Waves                              |
| 6.     | Gravitation                                  | Optics   |
| 7.     | Properties of Bulk Matter                    | Dual Nature of Matter and Radiation                |
| 8.     | Thermodynamics                               | Atoms and Nuclei                                   |
| 9.     | Behaviour of Perfect Gas and Kinetic Theory  | Electronic Devices                                 |
| 10.    | Oscillations and Waves                       |  |

### CHEMISTRY

| S. No. | CLASS XI   | CLASS XII   |
|--------|--|---|
| 1.     | Some Basic Concepts of Chemistry                         | Solid State   |
| 2.     | Structure of Atom  | Solutions   |
| 3.     | Classification of Elements and Periodicity in Properties | Electrochemistry  |
| 4.     | Chemical Bonding and Molecular Structure                 | Chemical Kinetic  |
| 5.     | States of Matter: Gases and Liquids                      | Surface Chemistry   |
| 6.     | Thermodynamics   | General Principles and Processes of isolation of Elements |
| 7.     | Equilibrium  | p- Block Elements   |
| 8.     | Redox Reactions  | d and f Block Elements                                    |
| 9.     | Hydrogen   | Coordination Compounds                                    |
| 10.    | s-Block Element (Alkali and Alkaline earth metals)       | Haloalkanes and Haloarenes                                |
| 11.    | Some p- Block Elements                                   | Alcohols, Phenols and Ethers                              |
| 12.    | Organic Chemistry-Some Basic Principles and Techniques   | Aldehydes, Ketones and Carboxylic Acids                   |
| 13.    | Hydrocarbons   | Organic Compounds Containing Nitrogen                     |
| 14.    | Environmental Chemistry                                  | Biomolecules  |
| 15.    |  | Polymers  |
| 16.    |  | Chemistry in Everyday Life                                |

### BIOLOGY

| S. No. | CLASS XI                                      | CLASS XII                          |
|--------|---|------------------------------------|
| 1.     | Diversity in Living World                     | Reproduction                       |
| 2.     | Structural Organisation in Animals and Plants | Genetics and Evolution             |
| 3.     | Cell Structure and Function                   | Biology and Human Welfare          |
| 4.     | Plant Physiology                              | Biotechnology and its Applications |
| 5.     | Human Physiology                              | Ecology and environment            |

## PHYSICS

### CONTENTS CLASS XI SYLLABUS

#### UNIT I: Physical World and Measurement

- Physics: Scope and excitement; nature of physical laws; Physics, technology and society.
- Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures.
- Dimensions of physical quantities, dimensional analysis and its applications.

#### UNIT II: Kinematics

- Frame of reference, Motion in a straight line; Position-time graph, speed and velocity. Uniform and non-uniform motion, average speed and instantaneous velocity. Uniformly accelerated motion, velocity-time and position-time graphs, for uniformly accelerated motion (graphical treatment).
- Elementary concepts of differentiation and integration for describing motion. Scalar and vector quantities: Position and displacement vectors, general vectors, general vectors and notation, equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors. Relative velocity.
- Unit vectors. Resolution of a vector in a plane-rectangular components.
- Scalar and Vector products of Vectors. Motion in a plane. Cases of uniform velocity and uniform acceleration-projectile motion. Uniform circular motion.

#### UNIT III: Laws of Motion

- Intuitive concept of force. Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. Law of conservation of linear momentum and its applications.
- Equilibrium of concurrent forces. Static and Kinetic friction, laws of friction, rolling friction, lubrication.
- Dynamics of uniform circular motion. Centripetal force, examples of circular motion (vehicle on level circular road, vehicle on banked road).

#### UNIT IV: Work, Energy and Power

- Work done by a constant force and variable force; kinetic energy, work-energy theorem, power.
- Notion of potential energy, potential energy of a spring, conservative forces; conservation of mechanical energy (kinetic and potential energies); non-conservative forces; motion in a vertical circle, elastic and inelastic collisions in one and two dimensions.

#### UNIT V: Motion of System of Particles and Rigid Body

- Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of uniform rod.
- Moment of a force, -torque, angular momentum, conservation of angular momentum with some examples.
- Equilibrium of rigid bodies, rigid body rotation and equation of rotational motion, comparison of linear and rotational motions; moment of inertia, radius of gyration. Values of M.I. for simple geometrical objects (no derivation). Statement of parallel and perpendicular axes theorems and their applications.

#### UNIT VI: Gravitation

- Kepler's laws of planetary motion. The universal law of gravitation. Acceleration due to gravity and its variation with altitude and depth.
- Gravitational potential energy; gravitational potential. Escape velocity, orbital velocity of a satellite. Geostationary satellites.

#### UNIT VII: Properties of Bulk Matter

- Elastic behavior, Stress-strain relationship. Hooke's law, Young's modulus, bulk modulus, shear, modulus of rigidity, poisson's ratio; elastic energy.
- Viscosity, Stokes' law, terminal velocity, Reynold's number, streamline and turbulent flow. Critical velocity, Bernoulli's theorem and its applications.
- Surface energy and surface tension, angle of contact, excess of pressure, application of surface tension ideas to drops, bubbles and capillary rise.
- Heat, temperature, thermal expansion; thermal expansion of solids, liquids, and gases. Anomalous expansion. Specific heat capacity:  $C_p$ ,  $C_v$ - calorimetry; change of state -latent heat.
- Heat transfer- conduction and thermal conductivity, convection and radiation. Qualitative ideas of Black Body Radiation, Wein's displacement law, and Green House effect.
- Newton's law of cooling and Stefan's law.

#### UNIT VIII: Thermodynamics

- Thermal equilibrium and definition of temperature (zeroth law of Thermodynamics). Heat, work and internal energy. First law of thermodynamics. Isothermal and adiabatic processes.
- Second law of the thermodynamics: Reversible and irreversible processes. Heat engines and refrigerators.

#### UNIT IX: Behaviour of Perfect Gas and Kinetic Theory

- Equation of state of a perfect gas, work done on compressing a gas.
- Kinetic theory of gases: Assumptions, concept of pressure. Kinetic energy and temperature; degrees of freedom, law of equipartition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path.

#### UNIT X: Oscillations and Waves

- Periodic motion-period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion(SHM) and its equation; phase; oscillations of a spring-restoring force and force constant; energy in SHM -Kinetic and potential energies; simple pendulum-derivation of expression for its time period; free, forced and damped oscillations (qualitative ideas only), resonance.
- Wave motion. Longitudinal and transverse waves, speed of wave motion. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, fundamental mode and harmonics. Beats. Doppler effect.

## **PHYSICS**

### **CONTENTS OF CLASS XII SYLLABUS**

#### UNIT I: Electrostatics

- Electric charges and their conservation. Coulomb's law-force between two point charges, forces between multiple charges; superposition principle and continuous charge distribution.
- Electric field, electric field due to a point charge, electric field lines; electric dipole, electric field due to a dipole; torque on a dipole in a uniform electric field.

- Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside)
- Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges: equipotential surfaces, electrical potential energy of a system of two point charges and of electric dipoles in an electrostatic field.
- Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor, Van de Graaff generator.

#### UNIT II: Current Electricity

- Electric current, flow of electric charges in a metallic conductor, drift velocity and mobility, and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity.
- Carbon resistors, colour code for carbon resistors; series and parallel combinations of resistors; temperature dependence of resistance.
- Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel.
- Kirchhoff's laws and simple applications. Wheatstone bridge, metre bridge.
- Potentiometer-principle and applications to measure potential difference, and for comparing emf of two cells; measurement of internal resistance of a cell.

#### UNIT III: Magnetic Effects of Current and Magnetism

- Concept of magnetic field, Oersted's experiment. Biot-Savart law and its application to current carrying circular loop.
- Ampere's law and its applications to infinitely long straight wire, straight and toroidal solenoids. Force on a moving charge in uniform magnetic and electric fields. Cyclotron.
- Force on a current-carrying conductor in a uniform magnetic field. Force between two parallel current-carrying conductors- definition of ampere. Torque experienced by a current loop in a magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.
- Current loop as a magnetic dipole and its magnetic dipole moment. Magnetic dipole moment of a revolving electron.
- Magnetic field intensity due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole (bar magnet) in a uniform magnetic field; bar magnet as an equivalent solenoid, magnetic field lines; Earth's magnetic field and magnetic elements.
- Para-, dia- and ferro-magnetic substances, with examples.
- Electromagnetic and factors affecting their strengths. Permanent magnets.

#### UNIT IV: Electromagnetic Induction and Alternating Currents

- Electromagnetic induction; Faraday's law, induced emf and current; Lenz's Law, Eddy currents. Self and mutual inductance.
- Alternating currents, peak and rms value of alternating current/ voltage; reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, resonance; power in AC circuits, wattless current.
- AC generator and transformer.

#### UNIT V: Electromagnetic Waves

- Need for displacement current.
- Electromagnetic waves and their characteristics (qualitative ideas only). Transverse nature of electromagnetic waves.
- Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, x-rays, gamma rays) including elementary facts about their uses.

#### UNIT VI: Optics

- Reflection of light, spherical mirrors, mirror formula. Refraction of light, total internal reflection and its applications optical fibres, refraction at spherical surfaces, lenses, thin lens formula, lens-maker's formula. Magnification, power of a lens, combination of thin lenses in contact combination of a lens and a mirror. Refraction and dispersion of light through a prism. Scattering of light- blue colour of the sky and reddish appearance of the sun at sunrise and sunset.
- Optical Instruments: Human eye, image formation and accommodation, correction of eye defects (myopia and hypermetropia) using lenses.
- Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.
- Wave optics: Wavefront and Huygens' principle, reflection and refraction of plane wave at a plane surface using wavefronts.
- Proof of laws of reflection and refraction using Huygens' principle.
- Interference, Young's double hole experiment and expression for fringe width, coherent sources and sustained interference of light.
- Diffraction due to a single slit, width of central maximum.
- Resolving power of microscopes and astronomical telescopes. Polarisation, plane polarized light; Brewster's law, uses of plane polarized light and Polaroids.

#### UNIT VII: Dual Nature of Matter and Radiation

- Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation- particle nature of light.
- Matter waves- wave nature of particles, de Broglie relation. Davisson-Germer experiment (experimental details should be omitted; only conclusion should be explained).

#### UNIT VIII: Atoms and Nuclei

- Alpha- particle scattering experiments; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum. Composition and size of nucleus, atomic masses, isotopes, isobars; isotones.
- Radioactivity- alpha, beta and gamma particles/ rays and their properties decay law. Mass-energy relation, mass defect; binding energy per nucleon and its variation with mass number, nuclear fission and fusion.

#### UNIT IX: Electronic Devices

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

## **CHEMISTRY**

### **CONTENTS OF CLASS XI SYLLABUS**

#### UNIT I: Some Basic Concepts of Chemistry

- General Introduction: Important and scope of chemistry.
- Laws of chemical combination, Dalton's atomic theory: concept of elements, atoms and molecules.
- Atomic and molecular masses. Mole concept and molar mass; percentage composition and empirical and molecular formula; chemical reactions, stoichiometry and calculations based on stoichiometry.

#### UNIT II: Structure of Atom

- Atomic number, isotopes and isobars. Concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbital, quantum numbers, shapes of s, p and d orbitals,

rules for filling electrons in orbitals- Aufbau principle, Pauli exclusion principles and Hund's rule, electronic configuration of atoms, stability of half filled and completely filled orbitals.

#### UNIT III: Classification of Elements and Periodicity in Properties

- Modern periodic law and long form of periodic table, periodic trends in properties of elements- atomic radii, ionic radii, ionization enthalpy, electron gain enthalpy, electronegativity, valence.

#### UNIT IV: Chemical Bonding and Molecular Structure

- Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, valence bond theory, resonance, geometry of molecules, VSEPR theory, concept of hybridization involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules (qualitative idea only). Hydrogen bond.

#### UNIT V: States of Matter: Gases and Liquids

- Three states of matter, intermolecular interactions, types of bonding, melting and boiling points, role of gas laws of elucidating the concept of the molecule, Boyle's law, Charles's law, Gay Lussac's law, Avogadro's law, ideal behaviour of gases, empirical derivation of gas equation. Avogadro number, ideal gas equation. Kinetic energy and molecular speeds (elementary idea), deviation from ideal behaviour, liquefaction of gases, critical temperature.
- Liquid State- Vapour pressure, viscosity and surface tension (qualitative idea only, no mathematical derivations).

#### UNIT VI: Thermodynamics

- First law of thermodynamics-internal energy and enthalpy, heat capacity and specific heat, measurement of U and H, Hess's law of constant heat summation enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution.
- Introduction of entropy as state function, Second law of thermodynamics, Gibbs energy change for spontaneous and non-spontaneous process, criteria for equilibrium and spontaneity.
- Third law of thermodynamics- Brief introduction.

#### UNIT VII: Equilibrium

- Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of chemical equilibrium, equilibrium constant, factors affecting equilibrium-Le Chatelier's principle; ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of polybasic acids, acid strength, concept of pH., Hydrolysis of salts (elementary idea), buffer solutions, Henderson equation, solubility product, common ion effect (with illustrative examples).

#### UNIT VIII: Redox Reactions

- Concept of oxidation and reduction, redox reactions oxidation number, balancing redox reactions in terms of loss and gain of electron and change in oxidation numbers.

#### UNIT IX: Hydrogen

- Occurrence, isotopes, preparation, properties and uses of hydrogen; hydrides-ionic, covalent and interstitial; physical and chemical properties of water, heavy water; hydrogen peroxide-preparation, reactions, uses and structure;

#### UNIT X: s-Block Elements (Alkali and Alkaline earth metals)

- Group I and group 2 elements:



- General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens; uses.
- Preparation and Properties of Some important Compounds:
- Sodium carbonate, sodium chloride, sodium hydroxide and sodium hydrogencarbonate, biological importance of sodium and potassium.
- Industrial use of lime and limestone, biological importance of Mg and Ca.

#### UNIT XI: Some p-Block Elements

- General Introduction to p-Block Elements.
- Group 13 elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group; Boron, some important compounds: borax, boric acids, boron hydrides. Aluminium: uses, reactions with acids and alkalis.
- General 14 elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first element. Carbon, allotropic forms, physical and chemical properties: uses of some important compounds: oxides.
- Important compounds of silicon and a few uses: silicon tetrachloride, silicones, silicates and zeolites, their uses.

#### UNIT XII: Organic Chemistry- Some Basic Principles and Techniques

- General introduction, methods of purification qualitative and quantitative analysis, classification and IUPAC nomenclature of organic compounds.
- Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation.
- Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions; electrophiles and nucleophiles, types of organic reactions.

#### UNIT XIII: Hydrocarbons

- Alkanes- Nomenclature, isomerism, conformations (ethane only), physical properties, chemical reactions including free radical mechanism of halogenation, combustion and pyrolysis.
- Alkenes- Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation: chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.
- Alkynes- Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of- hydrogen, halogens, hydrogen halides and water.
- Aromatic hydrocarbons- Introduction, IUPAC nomenclature; Benzene; resonance, aromaticity; chemical properties: mechanism of electrophilic substitution- Nitration sulphonation, halogenation, Friedel Craft's alkylation and acylation; directive influence of functional group in mono-substituted benzene; carcinogenicity and toxicity.

#### UNIT XIV: Environmental Chemistry

- Environmental pollution: Air, water and soil pollution, chemical reactions in atmosphere, smogs, major atmospheric pollutants; acid rain ozone and its reactions, effects of depletion of ozone layer, greenhouse effect and global warming- pollution due to industrial wastes; green chemistry as an alternative tool for reducing pollution, strategy for control of environmental pollution.

## **CHEMISTRY**

### **CONTENTS OF CLASS XII SYLLABUS**

#### UNIT I: Solid State

- Classification of solids based on different binding forces; molecular, ionic covalent and metallic solids, amorphous and crystalline solids (elementary idea), unit cell in two dimensional and three dimensional lattices, calculation of density

of unit cell, packing in solids, packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, point defects, electrical and magnetic properties, Band theory of metals, conductors, semiconductors and insulators.

#### UNIT II: Solutions

- Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties- relative lowering of vapour pressure, Raoult's law, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties abnormal molecular mass. Van Hoff factor.

#### UNIT III: Electrochemistry

- Redox reactions, conductance in electrolytic solutions, specific and molar conductivity variation of conductivity with concentration, Kohlrausch's Law, electrolysis and Laws of electrolysis (elementary idea), dry cell- electrolytic cells and Galvanic cells; lead accumulator, EMF of a cell, standard electrode potential, Relation between Gibbs energy change and EMF of a cell, fuel cells; corrosion.

#### UNIT IV: Chemical Kinetics

- Rate of a reaction (average and instantaneous), factors affecting rates of reaction; concentration, temperature, catalyst; order and molecularity of a reaction; rate law and specific rate constant, integrated rate equations and half life (only for zero and first order reactions); concept of collision theory (elementary idea, no mathematical treatment). Activation energy, Arrhenius equation.

#### UNIT V: Surface Chemistry

- Adsorption- physisorption and chemisorption; factors affecting adsorption of gases on solids, catalysis homogeneous and heterogeneous, activity and selectivity: enzyme catalysis; colloidal state: distinction between true solutions, colloids and suspensions; lyophilic, lyophobic multimolecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation; emulsions- types of emulsions.

#### UNIT VI: General Principles and Processes of Isolation of Elements

- Principles and methods of extraction- concentration, oxidation, reduction electrolytic method and refining; occurrence and principles of extraction of aluminium, copper, zinc and iron.

#### UNIT VII: P- Block Elements

- Group 15 elements: General introduction, electronic configuration, occurrence, oxidation states, trends in physical and chemical properties; preparation and properties of ammonia and nitric acid, oxides of nitrogen (structure only); Phosphorous- allotropic forms; compounds of phosphorous: preparation and properties of phosphine, halides ( $\text{PCl}_3$ ,  $\text{PCl}_5$ ) and oxoacids (elementary idea only).
- Group 16 elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; dioxygen: preparation, properties and uses; classification of oxides; ozone. Sulphur - allotropic forms; compounds of sulphur: preparation, preparation, properties and uses of sulphur dioxide; sulphuric acid: industrial process of manufacture, properties and uses, oxoacids of sulphur (structures only).
- Group 17 elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens: preparation, properties and uses Of chlorine and hydrochloric acid, interhalogen compounds oxoacids of halogens (structures only).
- Group 18 elements General introduction, electronic configuration, occurrence, trends in physical and chemical properties, uses.

#### UNIT VIII: d and f Block Elements

- General introduction, electronic configuration, characteristics of transition metals, general trends in properties of the first row transition metals- metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation. Preparation and properties of  $K_2Cr_2O_7$  and  $KMnO_4$ .
- Lanthanoids- electronic configuration, oxidation states, chemical reactivity, and lanthanoid contraction and its consequences.
- Actinoids: Electronic configuration, oxidation states and comparison with lanthanoids.

#### UNIT IX: Coordination Compounds

- Coordination compounds: Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds, isomerism (structural and stereo) bonding, Werner's theory VBT, CFT; importance of coordination compounds (in qualitative analysis, biological systems).

#### UNIT X: Haloalkanes and Haloarenes

- Haloalkanes: Nomenclature, nature of C – X bond, physical and chemical properties, mechanism of substitution reactions. Optical rotation.
- Haloarenes: Nature of C-X bond, substitution reactions (directive influence of halogen for monosubstituted compounds only).
- Uses and environment effects of - dichloromethane, trichloromethane, tetrachloromethane, iodoform, freons, DDT.

#### UNIT XI: Alcohols, Phenols and Ethers

- Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only); identification of primary, secondary and tertiary alcohols; mechanism of dehydration, uses with special reference to methanol and ethanol.
- Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophilic substitution reactions, uses of phenols.
- Ethers: Nomenclature, methods of preparation, physical and chemical properties uses.

#### UNIT XII: Aldehydes, Ketones and Carboxylic Acids

- Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties; and mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes; uses.
- Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.

#### UNIT XIII: Organic Compounds Containing Nitrogen

- Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary secondary and tertiary amines.
- Cyanides and Isocyanides- will be mentioned at relevant places.
- Diazonium salts: Preparation, chemical reactions and importance in synthetic organic chemistry.

#### UNIT XIV: Biomolecules

- Carbohydrates- classification (aldoses and ketoses), monosaccharide (glucose and fructose), D.L. configuration, oligosaccharides (sucrose, lactose, maltose), polysaccharides (starch, cellulose, glycogen): importance.
- Proteins- Elementary idea of - amino acids, peptide bond, polypeptides, proteins, primary structure, secondary structure, tertiary structure and quaternary structure (qualitative idea only), denaturation of proteins; enzymes.
- Hormones- Elementary Idea [excluding structure].
- Vitamins- Classification and function.
- Nucleic Acids: DNA and RNA

#### UNIT XV: Polymers

- Classification- Natural and synthetic, methods of polymerization (addition and condensation), copolymerization. Some important polymers: natural and synthetic like polyesters, bakelite; rubber, Biodegradable and non-biodegradable polymers.

#### UNIT XVI: Chemistry in Everyday Life

- Chemicals in medicines- analgesics, tranquilizers, antiseptics, disinfectants, antimicrobials, antifertility drugs, antibiotics, antacids, antihistamines.
- Chemicals in food- preservatives, artificial sweetening agents, elementary idea of antioxidants.
- Cleansing agents- soaps and detergents, cleansing action.

## **BIOLOGY**

### **CONTENTS OF CLASS XI SYLLABUS**

#### UNIT I: Diversity in Living World

- What is living? ; Biodiversity; Need for classification; Three domains of life; Taxonomy & Systematics: Concept of species and taxonomical hierarchy; Binomial nomenclature; Tools for study of Taxonomy - Museums, Zoos, Herbaria, Botanical gardens.
- Five kingdom classification: salient features and classification of Monera; Protista and Fungi into major groups; Lichens; Viruses and Viroids,
- Salient features and classification of plants into major groups-Algae, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms (three to five salient and distinguishing features and at least two examples of each category): Angiosperms- classification up to class, characteristic features and examples).
- Salient features and classification of animals-nonchordate up to phyla level and chordate up to classes level (three to five salient features and at least two examples).

#### UNIT II: Structural Organisation in Animals and Plants

- Morphology and modifications; Tissues; Anatomy and functions of different parts of flowering plants: Root, stem, leaf, inflorescence- cymose and racemose, flower, fruit and seed (To be dealt along with the relevant practical of the Practical Syllabus).
- Animal tissues; Morphology, anatomy and functions of different systems (digestive, circulatory, respiratory, nervous and reproductive) of an insect (cockroach). (Brief account only)

#### UNIT III: Cell Structure and Function

- Cell theory and cell as the basic unit of life; Structure of prokaryotic and eukaryotic cell; Plant cell and animal cell: Cell envelope, cell membrane, cell wall; Cell organelles-structure and function: Endomembrane system-endoplasmic reticulum, Golgi bodies, lysosomes, vacuoles: mitochondria, ribosomes, plastids, micro bodies; Cytoskeleton, cilia, flagella, centrioles (ultra structure and function); Nucleus-nuclear membrane, chromatin, nucleolus.
- Chemical constituents of living cells: Biomolecules-structure and function of proteins, carbohydrates, lipids, nucleic acids; Enzymes-types, properties, enzyme action.
- Cell division: Cell cycle, mitosis, meiosis and their significance.

#### UNIT IV: Plant Physiology

- Transport in plants: Movement of water, gases and nutrients; Cell to cell transport-Diffusion, facilitated diffusion, active transport; Plant - water relations - Imbibition, water potential, osmosis, plasmolysis; Long distance transport of water - Absorption, apoplast, symplast, transpiration pull, root pressure and guttation; Transpiration-Opening and

closing of stomata; Uptake and translocation of mineral nutrients- Transport of food, phloem transport, Mass flow hypothesis; Diffusion of gases (brief mention).

- Mineral nutrition: Essential minerals, macro and micronutrients and their role; Deficiency symptoms; Mineral toxicity; Elementary idea of Hydroponics as a method to study mineral nutrition; Nitrogen metabolism-Nitrogen cycle, biological nitrogen fixation.
- Photosynthesis: Photosynthesis as a means of Autotrophic nutrition; Site of photosynthesis take place; pigments involved in Photosynthesis (Elementary idea); Photochemical and biosynthetic phases of photosynthesis; Cyclic and non cyclic and photophosphorylation; Chemiosmotic hypothesis; Photorespiration C<sub>3</sub> and C<sub>4</sub> pathways; Factors affecting photosynthesis.
- Respiration: Exchange gases; Cellular respiration-glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); Energy relations-Number of ATP molecules generated; Amphibolic pathways; Respiratory quotient.
- Plant growth and development: Seed germination; Phases of Plant growth and plant growth rate; Conditions of growth; Differentiation, dedifferentiation and redifferentiation; Sequence of developmental process in a plant cell; Growth regulators- auxin, gibberellin, cytokinin, ethylene, ABA; Seed dormancy; Vernalisation; Photoperiodism.

#### UNIT IV: Human Physiology

- Digestion and absorption; Alimentary canal and digestive glands; Role of digestive enzymes and gastrointestinal hormones; Peristalsis, digestion, absorption and assimilation of proteins, carbohydrates and fats; Caloric value of proteins, carbohydrates and fats; Egestion; Nutritional and digestive disorders - PEM, indigestion, constipation, vomiting, jaundice, diarrhea.
- Breathing and Respiration: Respiratory organs in animals (recall only); Respiratory system in humans; Mechanism of breathing and its regulation in humans-Exchange of gases, transport of gases and regulation of respiration Respiratory volumes; Disorders related to respiration-Asthma, Emphysema, Occupational respiratory disorders.
- Body fluids and circulation: Composition of blood, blood groups, coagulation of blood; Composition of lymph and its function; Human circulatory system-Structure of human heart and blood vessels; Cardiac cycle, cardiac output, ECG, Double circulation; Regulation of cardiac activity; Disorders of circulatory system-Hypertension, Coronary artery disease, Angina pectoris, Heart failure.
- Excretory products and their elimination: Modes of excretion- Ammonotelism, ureotelism, uricotelism; Human excretory system- structure and function; Urine formation, Osmoregulation; Regulation of kidney function-Renin-angiotensin, Atrial Natriuretic Factor, ADH and Diabetes insipidus; Role of other organs in excretion; Disorders; Uraemia, Renal failure, Renal calculi, Nephritis; Dialysis and artificial kidney.
- Locomotion and Movement: Types of movement- ciliary, flagellar, muscular; Skeletal muscle- contractile proteins and muscle contraction; Skeletal system and its functions (To be dealt with the relevant practical of Practical syllabus); Joints; Disorders of muscular and skeletal system-Myasthenia gravis, Tetany, Muscular dystrophy, Arthritis, Osteoporosis, Gout.
- Neural control and coordination: Neuron and nerves; Nervous system in humans- central nervous system, peripheral nervous system and visceral nervous system; Generation and conduction of nerve impulse; Reflex action; Sense organs; Elementary structure and function of eye and ear.
- Chemical coordination and regulation: Endocrine glands and hormones; Human endocrine system-Hypothalamus, Pituitary, Pineal, Thyroid, Parathyroid, Adrenal, Pancreas, Gonads; Mechanism of hormone action (Elementary Idea); Role of hormones as messengers and regulators, Hypo- and hyperactivity and related disorders (Common disorders e.g. Dwarfism, Acromegaly, Cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease).

(Imp: Diseases and disorders mentioned above to be dealt in brief.)

## **BIOLOGY**

### **CONTENTS OF CLASS XII SYLLABUS**

#### **UNIT I: Reproduction**

- Reproduction in organisms: Reproduction, a characteristic feature of all organisms for continuation of species; Modes of reproduction - Asexual and sexual; Asexual reproduction; Modes-Binary fission, sporulation, budding, gemmule, fragmentation; vegetative propagation in plants.
- Sexual reproduction in flowering plants: Flower structure; Development of male and female gametophytes; Pollination-types, agencies and examples; Outbreeding devices; Pollen-Pistil interaction; Double fertilization; Post fertilization events- Development of endosperm and embryo, Development of seed and formation of fruit: Special modes-apomixis, parthenocarp, polyembryony; Significance of seed and fruit formation.
- Human Reproduction: Male and female reproductive systems; Microscopic anatomy of testis and ovary; Gametogenesis- spermatogenesis & oogenesis; Menstrual cycle; Fertilisation, embryo development upto blastocyst formation, implantation; Pregnancy and placenta formation (Elementary idea); Parturition (Elementary idea); Lactation (Elementary idea).
- Reproductive health: Need for reproductive health and prevention of sexually transmitted diseases (STD): Birth control-Need and Methods, Contraception and Medical Termination of Pregnancy (MTP); Amniocentesis: Infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (Elementary idea for general awareness).

#### **UNIT II: Genetics and Evolution**

- Heredity and variation: Mendelian Inheritance; Deviations from Mendelism-Incomplete dominance, Co-dominance, Multiple alleles and Inheritance of blood groups, Pleiotropy; Elementary idea of polygenic inheritance; Chromosome theory of inheritance; Chromosomes and genes; Sex determination-In humans, birds, honey bee: Linkage and crossing over; Sex linked inheritance-Haemophilia, Colour blindness; Mendelian disorders in humans-Thalassemia: Chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.
- Molecular basis of Inheritance: Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central dogma; Transcription, genetic code, translation; Gene expression and regulation-Lac Operon; Genome and human genome project; DNA finger printing.
- Evolution: Origin of life; Biological evolution and evidences for biological evolution from Paleontology, comparative anatomy, embryology and molecular evidence; Darwin's contribution, Modern Synthetic theory of Evolution; Mechanism of evolution-Variation (Mutation and Recombination) and Natural Selection with examples, types of natural selection; Gene flow and genetic drift; Hardy- Weinberg's principle; Adaptive Radiation; Human evolution.

#### **UNIT III: Biology and Human Welfare**

- Health and Disease; Pathogens; parasites causing human diseases (Malaria, Filariasis, Ascariasis, Typhoid, Pneumonia, common cold, amoebiasis, ring worm); Basic concepts of immunology-vaccines: Cancer, HIV and AIDS: Adolescence, drug and alcohol abuse.
- Improvement in food production: Plant breeding, tissue culture, single cell protein, Biofortification; Apiculture and Animal husbandry.
- Microbes in human welfare: In household food processing, industrial production, sewage treatment, energy generation and as biocontrol agents and biofertilizers.

#### **UNIT IV: Biotechnology and Its Applications**

- Principles and process of Biotechnology: Genetic engineering (Recombinant DNA technology).

- Application of Biotechnology in health and agriculture: Human insulin and vaccine production, gene therapy: Genetically modified organisms-Bt crops; Transgenic Animals; Biosafety issues-Biopiracy and patents.

#### UNIT V: Ecology and environment

- Organisms and environment: Habitat and niche: Population and ecological adaptations; Population interactions- mutualism, competition, predation, parasitism; Population attributes-growth, birth rate and death rate, age distribution.
- Ecosystem: Patterns, components; productivity and decomposition; Energy flow; Pyramids of number, biomass, energy: Nutrient cycling (carbon and phosphorous); Ecological succession; Ecological Services-Carbon fixation, pollination, oxygen release.
- Biodiversity and its conservation: Concept of Biodiversity; Patterns of Biodiversity: Importance of Biodiversity: Loss of Biodiversity; Biodiversity conservation; Hotspots, endangered organisms, extinction, Red Data Book biosphere reserves, National parks and sanctuaries.
- Environmental issues: Air pollution and its control; Water pollution and its control; Agrochemicals and their effects; Solid waste management; Radioactive waste management; Greenhouse effect and global warming; Ozone depletion; Deforestation; Any three case studies as success stories addressing environmental issues.