

Research Aptitude Test (RAT) 2019

I) Instruction for applicants:

*Candidates can apply only in the subjects offered by the University and go in for specialization at a later stage, while choosing the topic of research for registration for PhD.

*While applying for the Eligibility Test, the candidates should carefully choose the subject most suitable according to their eligibility/qualifying PG Degree/choice or area of interest for research.

*Shortlisted candidates will have to appear for a **Research Aptitude Test (RAT) 2019**, which will comprise of a written exam and/or interview.

*Candidates with **National level fellowships** like CSIR NET-JRF, DBT-JRF, UGC NET-JRF, DST Inspire Fellowship etc. are **exempted from taking the above test**.

*Based on the test results, there may be short listing of candidates for Interview / Viva-Voce.

*All notices/shortlists will be put on University website. Candidates are advised to check this website regularly. No written communication will be sent to candidates.

*Entrance test shall be conducted at the Centre(s) on the dates to be notified and changes of centers/dates, if any, shall also be notified.

II) Scheme of the Test & Qualifying marks:

The test comprises of two parts–

Test- I

The **Research Aptitude Test (RAT) 2019** will be of one hour duration and will carry a **Maximum of 60 marks**.

Test- II

Interview / Viva-Voce comprising of 40 marks.

Candidates are required to discuss their Research interest/Area through a presentation. Postgraduate level knowledge of the subject and aptitude for research are expected of the candidate.

*Only candidates who qualified in Research Aptitude Test and candidates of Exempted category will be called for Interview / Viva-Voce.

****Pass requirement is minimum 50% marks for General Category and 45% each for SC/ST/OBC (Non-Creamy layers)/Differently-able students.**

*** Provided that for selection of candidates, a weightage of 70% to the entrance test and 30% to performance in the interview / Viva-Voce shall be given.**

*** Provided that for selection of candidates exempted from entrance test** pass requirement in Test- II (Interview / Viva-Voce comprising of 40 marks) will be applicable as stipulated above.

Test-I Question paper consists of 30 multiple-choice type questions pertaining to Research Aptitude.

Each correct answer will be awarded two marks.

No negative marking for wrong answer.

Test-I will comprise of the following components and number of Questions.

1. Project Skills: (10 questions in total) 20 marks
2. Basic Statistics: (10 questions in total) 20 marks
3. Basic Sciences: (5 questions in total) 10 marks
4. General Awareness Social, Community & Environmental issues: (5 questions in total) 10 marks.

The duration of Test – I will be 1 hr.

III) Syllabus for Research Aptitude Test (RAT) 2019:

1. Project skills:

Methods of scientific query, literature survey, study designs, clinical trials, writing research proposals, academic writing skills, simple presentation techniques, ethical issues pertaining to humans and animals.

2. Basic statistics:

Statistical tools, sample size calculation, measures of central tendency and dispersion, percentage, range, confidence intervals, tests of significance, p-value, standard error of mean, tests of comparison, sensitivity, specificity, parametric and non-parametric tests (Chi-squared analysis, Pearson correlation, Student's T-test), Analysis of variance and covariance, familiarity with statistical software packages e.g. SPSS, SAS.

3. Basic sciences:

Anatomy, Physiology and Biochemistry in normalcy, basics of Genetics, basic laboratory investigations and imaging tools, basic principles of management of diseased states, nursing and rehabilitation measures.

4. Social, community and environmental issues:

Epidemiology - prevalence, incidence etc., communicable and non-communicable diseases, emerging health issues, environmental related health, demography and demographic variables, family planning, social aspects of health, Nutrition Indices, BMI, body circumference, skin fold thickness.

Test-II: Interview/Viva-Voce based on Subject of Research with relevance to the candidate.

Test-II will comprise of the following components:

1. Research Proposal: 30 marks

2. Interview: 10 marks

The Interview shall consider following aspects:

- a. Candidate possesses competence for research work. (Research skill i.e. proof of research publication /research presentation).
- b. Research can be suitably conducted at proposed institution college under proposed Guide.
- c. Proposed research work can contribute to new / additional knowledge.

IV) Application Procedure:

Mode of Application: Online application can be done through the University website from 09.02.2019 to 24.02.2019 (tentative dates).

The process of online Application shall commence on 9th February 2019 onwards and will continue till 24th February 2019, 05.00 PM.

Instruction for online application is available on the website.

Open the link of **Application/Login for Research Aptitude Test (RAT) 2019**.

Fill the online application form available on the website very carefully.

Upload the scanned copy of recent photograph and signature.

Pay the Application fees through net-banking / e-Challan / Credit Card / Debit Card as per rule of Bank.

Candidate can download the Application Form after the successful submission of fee.

Take Printout of the Application form, put signatures at the bottom of the form and attach the following:

***Copy of award letter, if any, pertaining to NET-JRF of CSIR/DBT/UGC/ICMR, DST Inspire etc. should be sent to Registrar, WBUHS, Research Aptitude Test (RAT) 2019, (through speed post/registered post/in person) so as to reach before the scheduled closing date (24th February, 2019).**

The O/o Registrar, WBUHS will not be responsible for any postal delay.

Final consideration of the candidature is subject to fulfillment of the eligibility criteria & all relevant documents proving qualification to be verified at the time of Interview.

Incomplete applications will be summarily rejected.

IMPORTANT: Candidates are advised to visit www.wbuhs.ac.in regularly for information regarding online registration, eligibility, admission procedures and other relevant information etc.

Any subsequent Addendum / Corrigendum / Updates/Information etc. will be uploaded / updated on the website only.

V) Application Fees:

*For General/OBC/PH category: Rs. -----/-

*For Candidates belonging to SC/ST category: Rs. -----/-

Based on the performance in the Entrance test, list of candidates to be called for interview will be displayed on the website.

No TA/DA will be paid for attending Entrance test and interview.

Sd/-
REGISTRAR