

**NOTIFICATION**  
**PhD Research Aptitude Test (RAT) 2020**

**Memo No:** OG/WBUHS/...../.....

**Date:** 00/02/2020

This is for information to all concerned that WBUHS will conduct PHD RESEARCH APTITUDE TEST 2020 with notification of syllabus, qualifying criteria along with date, time & venue of Examination (tentatively by 2<sup>nd</sup> week of April, 2020).

Test Centre, Date and Time will be mentioned in Admit Card.

**IMPORTANT NOTES**

**I) Instruction for applicants:**

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

\*While applying for admission, the candidates should carefully select the subject most suitable according to their eligibility/qualifying PG Degree/ broad area & chosen field of research.

\*Shortlisted candidates will have to appear for an admission test, 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.

\*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** will be of one-hour duration and will carry a **Maximum of 60 marks**.

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

**EXEMPTION FROM RESEARCH APTITUDE TEST:**

Candidates for PhD program shall be granted registration through an Entrance test conducted by the University.

The following categories are exempted from appearing in Research Aptitude Test (RAT-2020) conducted by the University:

- 1) Those students who qualify UGC-NET/JRF, UGC-CSIR-NET/JRF, SLET, and Research Fellowships of Central or State Government Departments/Agencies as approved by the regulatory bodies, as the case may be.
- 2) Candidates with DST-INSPIRE fellowship.
- 3) Candidates with DBT/JRF.
- 4) Candidates qualified in Research Aptitude Test (RAT 2019) conducted by WBUHS.

### **Test- II**

#### **Interview/ Viva-Voce comprising of 40 marks.**

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

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.

**\* 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 is minimum 50% marks for General Category and 45% each for SC/ST/OBC (Non-Creamy layers)/Differently-able students will be applicable as stipulated above.**

**Test-I** Question paper consists of **60 multiple-choice type questions** pertaining to Research Aptitude.

The duration of Test-I will be 1 (one) hour.

For EACH correct answer : ONE mark will be awarded.

For EACH incorrect answer: HALF mark will be deducted (as Negative marking).

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

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

### **III) Syllabus for Research Aptitude Test:**

#### **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 12.02.2020 to 11.03.2020 (tentative dates).

The process of online Application shall commence on 08th February 2020 onwards and will continue till 08th February 2020, 05.00 PM.

Instruction for online application is available on the website.

Open the link of **Application/Login for PhD Entrance Test 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 valid award letter if any pertaining to NET-JRF of CSIR/DBT/UGC/ICMR, DST Inspire etc. should be uploaded for seeking exemption.**

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 verification. Incomplete applications will be summarily rejected.

#### **IMPORTANT NOTES**

1. Admission in the test is purely provisional, based on pretest verification of documents done by the university.
2. If it is found later on that candidate do not fulfil any of the conditions of eligibility, the candidature will be canceled at any stage, and no appeal against such cancellation will be entertained.
3. It should be noted that, if candidates have obtained Exemption / Waiver from written entrance test (Research Aptitude Test 2020) on the basis of any false or invalid document, the candidature will be treated as cancelled at any stage it is detected.
4. Candidature will be summarily rejected if candidate remains absent on dates notified for verification of documents / certificates, without any further notification.
5. Part-time applicants must produce No Objection Certificate (NOC) from concerned employer at the time of document verification, or else his / her candidature will be cancelled.
6. Interview shall be conducted by the university in such a way that the candidates would be required to discuss their research interest/area through a brief presentation.
7. Candidates who **have sought exemption** must upload scanned copy of valid Certificate / Award letter / Score card of National level Eligibility Tests / Competitive Written Tests as applicable. **Dates for Document upload are from 0000 March to 0000March, 2020 by 6pm.**

Candidates are advised to visit [www.wbuhs.ac.in](http://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 Fee**

\*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, WBUHS