B. N. MANDAL UNIVERSITY
LALOO NAGAR, MADHEPURA-BIHAR
PIN-852113
Website: www.bnmu.ac.in

Ph.D. Admission Test– 2020 (PAT-20)
**(As per Regulation approved by the Governor's Secretariat, Bihar
(Vide Memo No. BSU-05/2010/2684/GS (I) dated 21.09.2017)**

Application from the candidates having Master's degree with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale or an equivalent grade in a point scale wherever grading system is followed, and relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, will be allowed for those belonging to SC/ST/EBC/OBC/Differently-abled categories of candidates is invited for Ph.D. Admission Test-2020 (PAT-20) latest by 02-03-2021. The Test is scheduled to be held on 15-04-2021.

Candidates seeking admission to the Ph.D. programme shall have to apply online with requisite fee within the schedules period to the University UMIS website – www.bnmuumis.in

Admission to Ph.D. Programme would ordinarily be held only in those subjects in which Post-Graduate Courses are being offered by the university.

Faculties/Subjects in which Test will be conducted

Serial No.	FACULTIES	SUBJECTS
01	COMMERCE	Commerce
02	HUMANITIES	Hindi, English, Sanskrit, Maithili, Urdu, Philosophy,
03	SCIENCE	Physics, Chemistry, Zoology, Botany, Mathematics
04	SOCIAL SCIENCES	History, Political Science, Home Science, Sociology, Economics, Psychology, Geography,

Subject wise Vacancies

Serial No.	SUBJECTS	Total vacant seats
01	HINDI	17
02	MAITHILI	26
03	PHILOSOPHY	25
04	SANSKRIT	03
05	URDU	10
06	ENGLISH	62
07	ECONOMICS	29
08	GEOGRAPHY	09
09	HISTORY	60
10	HOME SCIENCE	00 NIL
11	POLITICAL SCIENCE	08
12	PSYCHOLOGY	10
13	SOCIOLOGY	35
14	BOTANY	12
15	CHEMISTRY	21
16	PHYSICS	20
17	MATHEMATICS	14
18	ZOOLOGY	26
19	COMMERCE	05

** The reservation policy of the state government will be applicable on the total number of available seats in each subject at the point of admission.

***University shall have right to change the number of vacant seats.

Guidelines for the candidates

Eligibility for Ph.D. Admission Test (PAT) - 20

(i) Candidates for admission to the Ph.D. programme shall have a Master's degree with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed).

(ii) A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, will be allowed for those belonging to SC/ST/EBC/OBC/Differently-abled categories of candidates.

(iii) A candidate shall ordinarily be permitted to pursue research for the Ph.D. degree in the subject in which he/she holds Master's degree.

Exemptions from the written test of Ph.D. Admission Test (PAT) – 2020

(1) Candidates who have secured grants for research such as fellowship/scholarship/Associateship/ etc.by qualifying UGC/NET/CSIR-NET/GATE/MHRDScholarships/TeacherFellowship/DBT/ICMR/ ICAR/DST-INSPIRE/CSSIR, ICHR etc. / written test of PAT of the university.

(2) Assistant Professor, Associate Professor and Professor who have been appointed on substantive post in the UGC pay scale in the teaching departments or the University or a constituent college of the University who have completed their probation successfully with an experience of at least two years of uninterrupted service would be considered under this category. Teachers appointed in self-finance courses will not be exempted from the test.

(3) Non-teaching employees of the University, who are holding substantive appointment for more than five years having at least 55% marks in Master's degree in the subject concerned, and with at least two research papers published in any reputed refereed journal or journals identified by the UGC would be considered under this category.

Note: *The candidates, who are exempted from PAT 2020, are also required to apply with requisite Fee.*

How to Apply

Duly filled in application may be submitted online to the University Management Information System (UMIS) of B.N.M.U. from **18-02-2021 to 01-03-2021 (Without Fine) and 02-03-2021 to 06-03-2021 (With Late Fine) and Portal will be closed at 11:59 PM on** the last date and day of the application. No application will be accepted after the due date. Incomplete application will be rejected.

Serial No.	Category	Amount
1	General/B.C./EBC/EWS	*Rs. 1500/*-
2	SC/ST/Disabled/Women	*Rs. 1200/*-
3	*Application fee to all	*Rs 300/-*
4	**Late Fine**	*Rs 200/-*

Test Fee

Mode of Payment

Payment will be made by Debit Card/Credit Card/ Net Banking/ Wallet/ UPI through a Gateway process.

Details regarding Ph.D. Admission Test (PAT) 2020 is available on the university website : www.bnmu.ac.in and UMIS Portal of B. N. Mandal University **www.bnmuumis.in** For more information the Director of Academic /Deputy Registrar of Academic/ Controller of Examinations, B.N. Mandal University, Madhepura may be contacted through its E-Mail ID: academicsectionbnmu@gmail.com

Procedure for Ph.D. Admission Test-2020 (PAT-20)

The procedure for admission to Ph.D. programme in different departments would be overall governed by the Uniform Ordinance and Regulations governing award of Ph. D. Degree by the universities of Bihar. There would be two streams of applicant (i) Candidates for admission to the Ph.D. programme shall have a Master's degree with at least 55% marks in aggregate or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed) and those exempted from PAT (NET etc.). All such candidates would be pooled together and have to appear before an Interview Board. The

Interview Board shall consist of the members of the Departmental Council along with an External Expert not below the rank of Professor. The final selection of both categories of candidates in the Ph.D. programme would be based on the performance of candidates in the interview as well as on the basis of marks obtained in PAT and NET examination.

Written Test

Written test will be comprised of two papers of 100 marks each.
Paper -I: **100 marks** will consist on objective/ multiple choice questions on qualitative teaching and research aptitude.
Paper -II: **100 marks** will be subjective type in the subject concerned based on syllabus (excluding elective papers) of the Post-Graduate courses of the B. N. Mandal University, Madhepura, Bihar.
The minimum qualifying marks for written test will be as follows:
For **General** candidates – **50%** aggregate marks
For **Reserved** category candidates – **45%** aggregate marks

Merit List

The subject wise merit list will be prepared on a scale of 100 including marks in Master Degree; weightage on PAT/NET/BET/JRF and Interview as mentioned in the following Table i.e. maximum weightage on marks obtained in Master's Degree Programme as 70, plus maximum weighting on PAT/NET/JRF as 10, plus Interview of 20 marks.
Candidates will be selected following the prescribed reservation rules of Bihar Government.

TABLE

Model of Weightage marks to be awarded against percentage aggregate marks for Master Degree Examination in mentioned below:

Percentage marks in Master Degree	Weightage
50% to <55%	40
55% to <60%	45
60 to <65%	50
65% to <70%	55
70% to <75%	60
75% to< 80%	65
80% and above	70
Eligibility without Fellowship (PAT/NET/BET)	05
Eligibility with Fellowship (JRF)	10
Interview	20
Total	100

** 10 Marks will be given to the Teachers and Non-Teaching employees (having more than three years' experience) as given to JRF

The selection of the candidate will be on the basis of marks obtained in Written Test and Merit List including Interview combined together as mentioned above the Table.

Instructions to the candidates

Paper I – Multiple choice questions (MCQ).
No. of Questions – 50 Full Marks: 2x50=**100**
Duration of examination: **1 hour**
There will be no negative marking.
Students are not allowed to take out the questions booklets of Paper I.
Paper II – Essay Type/Subjective,
Duration of Examination: **2 Hours**. Full Marks: =**100**
Test will be based on the syllabus (excluding elective papers) of the Post-Graduate Degree Courses of B. N. Mandal University.

Serial No.	Groups	Distribution of Marks	Description
01	A	5x6=30	Total Eight short answer type questions to be set out of which five are to be answered (expected length of each answer – 150 words approximately).
02	B	4x10=40	Total Seven questions to be set of which four are to be answered (expected length of each answer – 200 words approximately).
03	C	2x15=30	Total Four questions to be set of which two are to be answered (expected length of each answer 500 words approximately).

The paper will be divided into three Groups:

N.B: The candidates are directed to answer questions in sequential order.

Date of Entrance Test – 15-04-2021

Time of written Examination

PAPER	TYPE	TIME	DURATION
Paper I	Objective	11.30 A.M. to 12.30 P.M.	1 Hour
Paper II	Essay Type /Subjective	12.45 P.M. to 2.45 P.M.	2 Hours

Availability of Admission Card

PAT-20 Admission Card will be uploaded on the UMIS portal on 10-04-2021. The copy of the Admit Card must be attested by the Head of the Departments/Principal of the constituent colleges last attended or by a Gazette Officer. It is necessary for the candidates to attest their photographs, signature and put thumb impression on the admit card to appear the examination.

General information to the candidates

Shield Coding Answer book will be provided to the candidates in the examination hall 15 minutes before the start time of the examination and they will have not unshielded the answer book until and unless start single has not been given by the invigilator. If candidates unshielded the answer book prior to start of the examination they may be expelled from the Test.

The successful result of Ph.D. Admission Test (PAT) will be valid for three years from the date of declaration/publication of the result. The PAT will be under the preview of the Rule of RTI Act, 2005.

Test Centre

Test will be held at Madhepura centers and it will be communicated/ announced properly in time.

Syllabus of PAT-2020

Syllabus of **Paper I** of PAT will be as follows:-

Paper-I: General and Research Aptitude Test.

All questions with multiple choices, each correct answer carries 2 Marks. There will be Full Marks: 100, Total number of Questions: 50 and no negative marking. Duration of Exam will be of 1 Hour.

There will be 7 Parts in the paper. The distribution of marks and number of questions are given in the table below:-

Topic	No. of questions	Marks	Syllabus Level
1. Research Aptitude	10	20	Mentioned below
II. Language Aptitude	10	20	High School Level
III. Logical Reasoning	05	10	High School Level
IV. Numerical Ability	05	10	High School Level
V. Data Interpretation	05	10	Mentioned below
VI. Environment and Sustainability	10	20	Mentioned below
VII. Computer and Information & Communication Technology (ICT) Awareness	05	10	Mentioned below

I. Research Aptitude: Meaning, aims, nature and scope of research Prerequisites of Research Types of research: Fundamental or Pure research, Applied research, Research Problem: Meaning of research problem, Sources of research problem, Characteristics of a good research problem Methods of research proposal or synopsis Ethics in Research

II. Language Aptitude: High School Level

III. Logical Reasoning: High School Level

IV. Numerical Ability: High School Level

v. Data Interpretation: Qualitative and Quantitative Data Mapping of data: Representation and Interpretation of graphs

vi. Environment and Sustainability:

Sources of Air, Water and Soil Pollutions and their Mitigation, Noise Pollution Global Warming, Ozone depletion and Acid rain Current environmental issues and movements in India: Chipko movement, Silent valley, Narmada dam, Tehri dam, Almetti dam etc. Global Environmental Movements: Biodiversity Conservation and Agenda 21, Paris Convention, Montreal Protocol etc.

vii. Computer and Information & Communication Technology (ICT): Awareness General Abbreviations and Terminology of Computers and ICT Meaning, Advantages, Uses and Risks of Digitalization Basics of Internets.

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Paper II Test
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Paper II Test will be based on the syllabus (excluding elective papers) of the Post- Graduate Degree Courses of B. N. Mandal University.

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FINAL SELECTION
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The final selection of candidates in the Ph.D. Programme would be based on the performance of all the candidates (coming through PAT or exempted category of candidate).

The final selection list would be displayed on the UMIS Portal of B. N. Mandal University Website www.bnmuumis.in as well as on the concerned Departmental Notice Board only. The result should be checked by the candidate from the personal login account. It is expected that result will be announced by the first week of May, 2021. The result will be published in terms of overall merit-rank and category rank obtained by the candidate.

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Important Dates to be remembered
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1. **Date of Application: 18/02/2021-01/03/2021(without fine)**
2. **02/03/2021-06/03/2021(with late fine)**
3. **Date of downloading of Admit Card: 10/04/2021 (onward)**
4. **Date of Entrance Test: 15/04/2021**
5. **Date of publishing of Results: First week of May.**

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By the Order of the Vice-Chancellor

Sd/-
CONTROLLER OF EXAMINATIONS
B.N.MANDAL UNIVERSITY
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