# MUGBERIA GANGADHAR MAHAVIDYALAYA

P.O.—BHUPATINAGAR, Dist.—PURBA MEDINIPUR, PIN.—721425, WEST BENGAL, INDIA

NAAC Re-Accredited B Level Govt. aided College

CPE (Under UGC XII Plan) & NCTE Approved Institutions

DBT Star College Scheme Award Recipient

E-mail : mugberia_college@rediffmail.com // www.mugberiagangadharmahavidyalaya.org

Ref. No.—M.G.M. /    /    /                                           Date.................................

From—The Principal / Secretary,

<br>

# Report on
# Quiz Competition & Assessment  Test
# for
# Career Counselling in Higher Education

**Arranged By**

**Department of Mathematics**
**Mugberia Gangadhar Mahavidyalaya**

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# for
# Career Counselling in Higher Education
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## Department of Mathematics
## Mugberia Gangadhar Mahavidyalaya
## Under DBT star college strengthening  scheme, Govt. of India
**Prepared by**

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under the supervision of …
Dr. Kalipada Maity
Associate  Professor & HOD  ::  Dept of Mathematics
August 2022

# IISER(Indian Institutes of Science Education &Research)



1) How many IISERs are there in India?

   a) 4                b) 6

   c) **7**               d)none of these


2) According to nirf ranking which IISER is best?

   a) **IISER PUNE**              b) IISER KOLKATA

   c) IISER MOHALI          d) IISER  BHOPAL


3) Which IISER is good for Mathematics?

   a)   IISER KOLKATA         b) IISER THIRUVANANTHAPURAM

   c)   **IISER MOHALI**         d)  IISER TIRUPATI


4) Which IISER is located in West Bengal ?

   a) IISER PUNE             b) **IISER KOLKATA**

   c) IISER BHOPAL          d) IISER MOHALI

5) IISER KOLKATA offers courses for students in math background

    a) 5year BS-MS dual degree program       b) BS & MS program

    c) Integrated PhD program           d) **All of these**

6) IISER KOLKATA application process started for Autumn semester

    a) **April-May**                  b) March-April

    c) May-June                 d) June-July

**Admission Channels**:-(A candidate can apply through any one or two or all the three channels)

    1) Kishore Vaigyanik Protsahan Yojana (KVPY)

    2) JEE-Advanced

    3) State and Central Boards Channel (SCB)

**All IISERs offer  Mathematics  in their BS-MS course**

For more details go and check their website…

**https://www.iiseradmission.in/**

# LIST OF IISERS

## PUNE
- Dept. of Biology
- Dept. of Chemistry
- Dept. of Earth & Climate Science
- Dept. of HSS
- Dept. of Mathematics
- Dept. of Physics

## KOLKATA
- Dept. of Biological Sciences
- Dept. of Chemical Sciences
- Dept. of Earth Sciences
- Dept. of Mathematics and Statistics
- Dept. of Physical Sciences

## MOHALI
- Dept. of Physical Sciences
- Dept. of Biological Sciences
- Dept. of Earth & Environmental Sciences
- Dept. of Humanities & Social Sciences
- Dept. of Chemical Sciences
- Dept. of Mathematical Sciences

## BHOPAL
- Dept. of Biological Sciences
- Dept. of Chemistry
- Dept. of Earth & Environmental Sciences
- Dept. of Mathematics
- Dept. of Physics
- Dept. of Chemical Engineering
- Dept. of Data Science & Engineering
- Dept. of Electrical Engineering & Computer Science
- Dept. of Economic Sciences
- Dept. of Humanities & Social Sciences

## THIRUVANANTHAPURAM
- School of Biology
- School of Chemistry
- School of Physics
- School of Mathematics

## TIRUPATI
- Dept. of Biology
- Dept. of Chemistry
- Dept. of Earth and Climate Science
- Dept. of Mathematics
- Dept. of Physics
- Dept. of Humanities and Social Sciences

## BERHAMPUR
- Faculty of Biological Sciences
- Faculty of Mathematical Sciences
- Faculty of Physical Sciences
- Faculty of Chemical Sciences

# Indian Statistical Institute(ISI)

( https://www.isical.ac.in/ )

7) How many ISI are there in India?

   a) 5                             c) 7

   b)11                          d) **6**

It has **four** subsidiary centres focused in academics at

**Delhi, Bengaluru, Chennai and Tezpur,** and a branch at **Giridih** & **KOLKATA(HQ)**

8) ISI Kolkata conduct their entrance exam(masters) in which time?

   a) **March-May**                  c) January- March

   b) August-October             d) April- June

9) Which ISI offers M.Math course after B.sc?

   a) **ISI KOLKATA**               c) ISI HYDERABAD

   b) ISI MUMBAI                  d) ISI DELHI

10) After qualifying GATE exam one student get a chance to pursue

   a) only P.HD                   c) only M.tech

   b) **M.Tech or P.HD**            d) none of these

11) ISI KOLKATA offers which courses for M.tech after M.sc math?
   a) M Tech (CS)              b) M Tech (CrS)
   c) M Tech (QROR)           d) **all of these**

12)  Does ISI offer Junior/Senior Research Fellowship program?
   a) **yes**                  b) No

13)  Which ISI offers P.HD program in Mathematics ?
   a) Kolkata                  b) Delhi
   c) Bengaluru               d) **All of these**

14)  Who is the founder of ISI ?
   a)  **Prasanta Chandra Mahalanobis**        b) Meghnad Saha
   c)  C.V. Raman                               d) Srinivasa Ramanujan

15)  Does ISI have their own fellowship program for UG, PG students  ?
   a) **yes**                                  b) No

- **For  1) B.Stat/B.math :- Rs. 5000/month ;**
     **2) M.Stat/M.math/MS(QE)/MS(LIS)/MS(QMS):- Rs. 8000/month ;**
     **3) M.Tech(CS/QROR/CrS):- Rs. 12400/month**

**\*\* CrS:** Cryptology and Security **, QROR:** Quality, reliability and operations Research

# Ramakrishna Mission Vivekananda Educational and Research Institute/ Vivekananda University (RKMVERI) ( http://rkmvu.ac.in/ )

16)   RKMVERI(Belur) offers a two year MSc degree programe
     in *Big Data  Analytic*s (only for male) with
     a) **at least 60% in B.SC**                    b) at least 70% in B.SC
     c) at least 50% in B.SC                         d) at least 55% in B.SC

17)  The syllabus for *Big Data Analytic*s contains
     a) Logical reasoning                            b) Quantitative Aptitude
     b) Data Interpretation AND Data Visualization      d)  **all of these**

18)  Admission process (RKMVERI) conducted in the time of
     a) **april-june**                    b) January- March
     c) August-october                   d) February-April

19)  Which of the following courses are offered by RKMVERI ?
     a) P.HD in Math                     b) M.SC in Computer Science
     c) M.SC in Data Science            d) **All of these**

20)  What is the full form of CMI ?

   a) **Chennai Mathematical Institute**       b) Cell mediated immunity

   c) Communication media information        d) Credit manager's index


21)  CMI was founded in

   a)  **1989**                              b) 1990

   c) 1987                                   d) none of these


22)  CMI offers UG PG and PHD course in

   a) Mathematics                           b) Statistics

   c) Computer Science                      d) **all of these**


23) CMI was situated in

   a) Cochin                                b) Kolkata

   c) **Chennai**                           d) none of these


( https://www.cmi.ac.in/ )

24) Who can apply for the course M.SC in Data Science in CMI ?

   candidates  having UG degree with background in

      a) Mathematics                                       b) Statistics

      c)Computer Science                             d) **all of these**

25)  Application process started in between

      a) **March –May**                                  b)April –June

      c) July-September                             d) January –March

26) The CMI has invited  PhD Mathematics  candidates  directly  for interview who have  qualified  for the scholarship of

      a) **NBHM**                                      b) CSIR

      c) GATE                                         d) none of these

27)  Does CMI offers campus  placement ?

      a) **yes**                                       b) no

# Banaras Hindu University(BHU)

( https://www.bhu.ac.in/ )

28) BHU conduct their M.SC admisssion through

    a) JAM score          b) **conducting their own entrance(UET,PET )**

    c) GATE score          d) none of these

29) Application process started in between

    a) **April-July**          b) March –June

    c) July-September          d) January –March

30) University in Varanasi  located  in

    a) **Uttar Pradesh**          b) Bihar

    c) Panjab          d) Haryana

31)  Eligibility  criteria for BHU M.SC entrance with UG percentile

    a) 60%          b) 65%

    c) 70%          d) **50%**

# University of Hyderabad(HCU)

( http://acad.uohyd.ac.in/ )

32) Candidates are eligible for admission in PhD course through

a) UGC-CSIR JRF
b) NBHM
c) a)&b) both
d) **a) or b)**

33) HCU offers offers M.Sc. courses in the stream of

a) Mathematics
b) Applied Mathematics
c) Statistics-Operations research
d) **all of these**

34) Each admitted student who do not possess any fellowship from any other agency will be paid a Fellowship/ Scholarship of Rs.

a) **1000/month**
b) 6000/month
c) 1500/month
d) 2000/month

35) The top two students get the **University Achievers awards** of Rs.

a) 1500/month
b) **2000/month**
c) 6000/month
d) 3000/month

36) For applying for the M.Sc Courses in HCU  a candidate should  have B.SC degree in Math/ Statistics with percentile

      a) **55%**                                   b) 60%

      c) 50%                                    d) 65%

37) HCU conduct their M.SC admisssion through

      a) conducting  written entrance test            b) interview

      c) **by both a) & b)**                        d) JAM score

38) Application process started in between

      a) **May-July**                        b) March –June

      c) July-September                 d) January –March

39) University of Hyderabad  located in

      a) **Telangana**                    b) Jharkhand

      c) West Bengal                d) Tamilnadu

40) Which of the following is not a central university?

      a) Banaras Hindu University           b) University of Hyderabad

      c) Delhi University                  d) **ISI KOLKATA**

# Harish-Chandra Research Institute (HRI) ( http://www.hri.res.in/ )

41) HRI located in

 a) **Allahabad**

 b) Hyderabad

 c) Kolkata

 d) Chennai

42) HRI is a premier institution dedicated to research (P.hD) in

 a) Mathematics

 b) Theoretical Physics

 c) Chemistry

 d) **a)&b) both**

43) In HRI the areas of focus in Mathematics are

 a) Algebra,

 b) Analysis

 c) Geometry & Number Theory

 d) **All of these**

44) In HRI online application for PhD commences in the month of

 a) **July**

 c) August

 c) May

 d) June

45) Candidates will be eligible to appear for the Admission Exam for the HRI Ph.D Programme through

    a) NBHM scholarship               b) UGC-CSIR Fellowship (AIR 1-20)

    c) Interview                       d) **All of these**

46) The Institute (HRI) has recently started an M.Sc. Programme in

    a) **Physics**                    b) Mathematics

    c) Chemistry                 d) All of these

47) HRI offers SPIM( Summer program in Mathematics ) in the month of

    a) April-May                 b) March-April

    c) May-June                d) **June-July**

48) Candidates should apply for SPIM before

    a) **May**                    b) June

    c) July                     d) April

49) HRI was founded in

    a) **1975**                  b) 1976

    c) 1974                   d) 1977

# Tata Institute of Fundamental Research(TIFR)

( https://www.tifr.res.in/ )

50) TIFR was founded on

    a) **1ˢᵗ June 1945**　　　　　　　　b) 1ˢᵗ June 1946

    c) 1ˢᵗ June 1947　　　　　　　　　d) 1ˢᵗ June 1985


51) Who was the founder of TIFR with the help of whom ?

    a) **Dr. Homi J. Bhabha & J.R.D Tata**　　　b) Vikram Sarabhai

    c) C.V Raman　　　　　　　　　　　d) Satyendranath Bose


52) The School of Mathematics at TIFR Mumbai conducts research in Mathematics with emphasis on

    a) **Pure mathematics**　　　　　　b) Applied mathematics

    c) Geometry　　　　　　　　　　d) all of these


53) TIFR Mumbai is organizing a two-week summer school in mathematics named

    a) **Vigyan Vidushi** (for women )　　　b) Vigyan Mancha

    c) Vigyan Shibir　　　　　　　　　d) All of these

54) TIFR online application starts in

      a) **October-November**           b) June-July

      c) March-April                 c) May-June

55) TIFR main campus is

      a) **TIFR Mumbai**               b) TIFR Hyderabad

      c) CAM Bengaluru            d) HBCSE Mumbai

**\*\* Top institutes for higher studies in Mathematics**

      1) IISC  ( https://iisc.ac.in/ )

      2) ISI KOLKATA ( https://www.isical.ac.in/ )

      3) IISERs ( https://www.iiseradmission.in/ )

      4) TIFR (They have their own fellowship program also )

      ( https://www.tifr.res.in/ )

      5) CMI ( https://www.cmi.ac.in/ )

      6) IMSC ( https://www.imsc.res.in/ )

      7) HRI ( http://www.hri.res.in/ )

      8) NISER  ( https://www.niser.ac.in/ )

      9) IITs  & NITs (Warangal &  Trichy )

# NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH   BHUBANESWAR (NISER) ( https://www.niser.ac.in/ )

56) Online application starts in NISER in the month of
   a) **April**                         b) May
   c) March                             d) June

57) Candidates are eligible for P.hD with having marks in M.SC
   a) **60%**                           b) 70%
   c) 65%                               d) 80%

58) Candidates should have qualified for P.hD admission
   a) CSIR-UGC-NET JRF                  b) GATE
   c) NBHM                              d) **at least one of these**

59) NISER BHUBANESWAR offer  courses  on
   a) Int. M.sc P.hD in Math            b) M.sc in Math
   c) P.hD in Math                      d) **both a) & c)**

# The Institute of Mathematical Sciences(IMSC)

( https://www.imsc.res.in/ )

60) IMSc provides exceptional intellectual environment for

fundamental research in the areas of

a) Theoretical Physics `       b) Mathematics

c) Theoretical Computer Science       d) **all of these**

& Computational Biology

61) IMSC application deadlines usually fall in

a) **Mid-February**       b) Mid-August

c) Mid-January       d) Mid-May

62) IMSC offers P.hD program to the candidates who have qualified

a) NBHM       b) GATE

c) NET       d) **any of those**

63) IMSC offers summer research program in in month of

a) **May-July**       b) July-September

c) April-June       d) June-August

# Indian Institutes of Technology(IIT)

( https://www.iitsystem.ac.in/ )

64) How many IITs are there in all over the India?
    a) **23**                             b) 24
    c) 20                                d) 21

65) How to get an admission in P.hD Math in IIT ?
    scoring good marks in
    a) Csir NET-Jrf                        b) GATE
    c) **any of the above or clearing**
      **the written test & interview conducted by**     d) NBHM
      **individual IIT**

66) Which IIT is the oldest ?
    a) **IIT Kharagpur**              b) IIT Kanpur
    c) IIT Madras                  d) IIT  Delhi

67) How to get admission for M.SC in IITs?
    a) **through JAM**               b) through GATE
    b) through NET               d) through NBHM

68) IISC offers integrated P.hD program with eligibility

      a) 60% marks in B.sc                   b) Good score in JAM(MA)

      c) any of those                          d) **both a) & b)**

69) According to NIRF ranking which one is the top university ?

      a) **IISC**                               b) BHU

      c) CMI                              d) none of these

70) Among 1587 govt. institutions worldwide CSIR ranked

      a) **$37^{th}$**                         b) $38^{th}$

      c) $39^{th}$                        d) $35^{th}$

71) CSIR ranked in ASIA

      a) **$7^{th}$**                         b) $8^{th}$

      c) $9^{th}$                        d) $10^{th}$

72) For joining ISRO scientist –SC (entry level) basic qualification is

      a) **M.SC**                         b) B.SC

      c) P.hD                        d) none of these

73) Which ISI offers Bachelor's degree ?

  a) **ISI KOLKATA (B.Stat,B.Math)**     b) **ISI BANGALORE (B.Math)**

  c) ISI CHENNAI           d) all of these

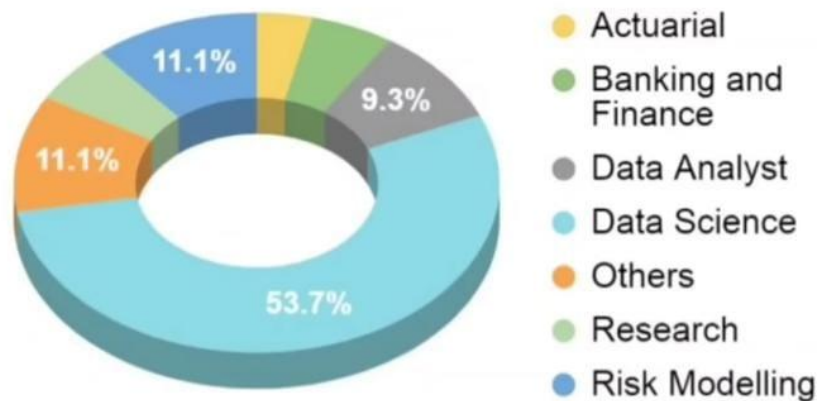74) Where is ISI headquarter ?

  a) **ISI KOLKATA**           b) ISI CHENNAI

  c) ISI BANGALORE          d) ISI DELHI

## Internship Statistics 2019-20

### Internship Domains

- Actuarial
- Banking and Finance
- Data Analyst
- Data Science
- Others
- Research
- Risk Modelling

11.1%
9.3%
11.1%
53.7%

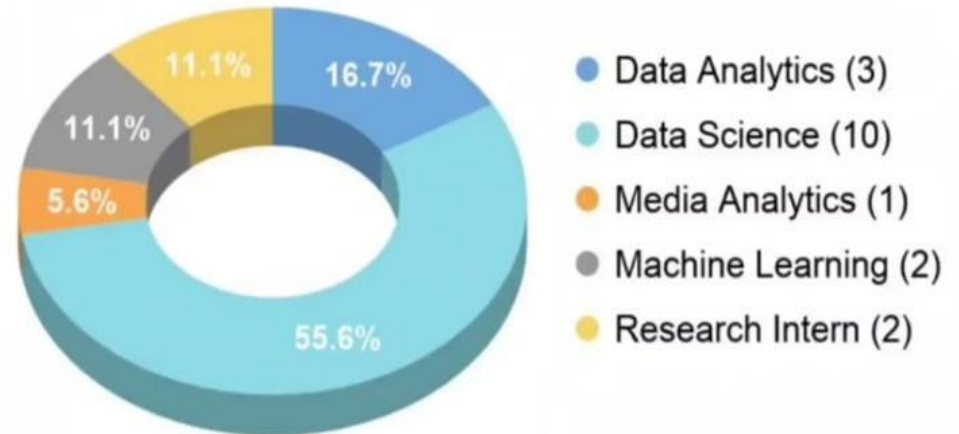| Stipend | INR (Monthly) |
|---------|---------------|
| Highest | 1.2 lacs |
| Average | 70 K |
| Median | 65 K |

## Area of Expertise

- Machine Learning, Deep Learning & AI
- Natural Language Processing
- Computer Vision
- Image Recognition
- Pattern Recognition
- Data Mining
- Computational Finance
- Optimization
- Statistical Computation
- Quantum Learning Theory
- Advanced Algorithms
- Distributed Systems and Big Data
- Advanced Graph & Randomised Algorithms

## Internship Domains



- Data Analytics (3) — 16.7%
- Data Science (10) — 55.6%
- Media Analytics (1) — 5.6%
- Machine Learning (2) — 11.1%
- Research Intern (2) — 11.1%

## * List of Best Internship Websites in India

1) Internshala
2) LinkedIn
3) Google Summer of Code( GSoC )
4) Google's Coding Competitions ( Hash code , Code Jam, Kick-Start)
5) Chegg

## * Required coding Language

1) Java
2) C, C++
3) Python

** Any two of those

75) Best NIT for MSc Mathematics

     a) **NIT Warangal**                        b) **NIT Trichy**

     c)  NIT Rourkela                         d) NIT Surathkal

76) IISC  situated in

     a) **Bengaluru**                          b) Chennai

     c) Tamil Nadu                         d) Kerala

77) NIT Warangal is  best for

     a) **Applied Mathematics**             b) Pure Mathematics

     c) Physics                           d) All of these

78) NIT Warangal  offers course in **Mathematics  and Scientific Computing**  which is

     a) **M.Sc course**                       b) B.sc Course

     c) M.tech Course                     d) MS course

79)   Some IITs offer M.tech course for M.sc Math students through gate are

     a) IIT Kharagpur                      b) IIT Madras

     b)  IIT Guwahati                     d) **All of these**

80) Which IIT is good for Applied Mathematics ?

     a) IIT Kanpur                                     b) IIT Delhi

     b) **IIT Kharagpur**                          d) IIT Bombay

81) Recently which IIT started a **3 years online B.sc** program in **Data Science** ?

     a) **IIT Madras**                              b) IIT Bombay

     c) IIT Kharagpur                        d) IIT Guwahati

82) Some Institutes dedicated only for Mathematics

     a) ISI KOLKATA                           b) CMI

     c) IMSC                                  d) TIFR Mumbai

     e) **All of these**

83) Which IIT offers **MSc-Ph.D dual degree** in **Operations Research** for math students

     a) **IIT Bombay**                           b) IIT Kharagpur

     c) IIT Guwahati                         d) All of these

84) Which IIT is best for Pure Mathematics ?

     a) **IIT Kanpur**                            b) IIT Delhi

     b) IIT Kharagpur                       d) IIT Bombay

85) **IISC** offers **integrated M.SC-P.hD** program for the candidates who qualify

     a) **JAM**                                  b) GATE

     c) NBHM                                d) All of these

**Some other institutes for their finest research program in Mathematics**

1) **Institute of Mathematics & Applications, Bhubaneswar** ( Integrated PhD& P.hD) **( https://iomaorissa.ac.in/admissions/ )**

2) **Kerala School of Mathematics( offers** Integrated MSc-PhD & P.hD Program**) (**a center of excellence research in Mathematics**) ( https://ksom.res.in/ )**

3) **Indian Institute of Space Science and Technology ( IIST),** Thiruvananthapuram, Kerala (P.hD in Mathematics) ( https://www.iist.ac.in/ )

4) **The Centre for Excellence in Basic Sciences (CEBS), Mumbai (** research in Mathematics **)**

**( https://www.cbs.ac.in/research/research-mathematics )**

5) **Birla Institute of Technology & Science, Pilani** (**BITS Pilani**) ( Offers M.SC Math )

( https://www.bits-pilani.ac.in/hyderabad/mathematics/Courses )

6) **INSTITUTE OF CHEMICAL TECHNOLOGY ( ICT ), MUMBAI** (P.HD IN MATH)

( https://www.ictmumbai.edu.in/DepartmentHome.aspx?nDeptID=ca )

86) Who can apply in the summer research program

**currently pursuing B.SC/M.SC degree in the 2ⁿᵈ and 3ʳᵈ year / 1ˢᵗ year of their course with a good CGPA .**

87) Some good Math Internship in INDIA

       **a) At TIFR**

       **b) SPIM at HRI**

       **c) at CMI**

       **d) IITs**

       **e) IMSC**

88) Full form of NBHM

**National Board for Higher Mathematics (http://www.nbhm.dae.gov.in/node/38 )**

89) CSIR full form ( https://www.csir.res.in/ )

       **Council of Scientific & Industrial Research**

90) GATE full form ( https://gate.iitkgp.ac.in/ )

       **Graduate Aptitude Test in Engineering**

**\*\* JAM : Joint Admission Test for M.SC (** organising institute IIT Guwahati for 2022**)**

       ( https://jam.iitr.ac.in/ )

91) GATE exam conducted in a year for how many times ?

    a) **one**                                             b) two

    c) three                                            d) four

92) Form fill up started for GATE in which time ?

    a) **Aug-Oct**                                   b) Jan-Feb

    c) April-June                                 d) May-June

93) GATE exam conducted in the month of

    a) **February**                               c) December

    c) November                                d) January

94) Among the following  options which exam is only for M.Sc?

    a) **JAM**                                      b) GATE

    c) NET                                       d) a)&b) both

95)  Among the following  options which exam is for Masters as well as P.hD?

    a) JAM                                       b) **GATE**

    c) NET                                       d)  a)&b) both

96) Organising Institute for GATE 2023 is

    a) **IIT Kanpur**                              c) IIT Delhi

    c) IIT Bombay                             d) IIT Kharagpur

96) What is the full form of JAM?
   a) **Joint Admission test for Masters**          b)  Joint Application Manager
   c)Joint account  for Mutual funds                 d) none

97) Form fill up started for JAM in which time ?
   a) **Sep-Oct**                                    b) Jan-Feb
   c) April-June                                      d) May-June

98) JAM  exam conducted in the month of
   a) **February**                                   c) December
   c) November                                        d) January

99) Among the following  options which exam  is conducted twice in a year?
   a) GATE                                            b) **NET**
   c) JAM                                             d) JEE

100) NET exam conducted  in the month of
   a) **June & December**                            c) January  & July
   c)  May-November                                  d) April-October

101)  Through which exam one get admission in P.hD?
   a) NET                                             b) GATE
   c) JAM                                             d) **a)&b) both**

102) In ISRO a Post Gradute Mathematics student join as

   (a) Director                          (b) *Scientists*

   (c) Technician                        (d) Designer


103) The recruitment procedure is

   (a) Direct joining                    (b) By recommendation

   (c) *Written test,interview*          (d) Merit based


104) In ONGC you can get a job as AEE (Reservoir) after     qualifying

   (a) *GATE*                            (b) NET

   (c) CAT                               (d) NBHM


105)  You can get MRFP fellowship from Indian Institute of  Tropical Meteorology (IITM) Pune after qualifying

   (a) *NET/GATE*                        (b) SSC CGL

   (c) RRB Exam                          (d) UPSC


106)  The duration of Fullbright scholarship is

   (a) One year                          (b) Two years

   (c) *Six to nine months*              (d) Five month

107) Which country gives DAAD scholarship for M.Sc and PhD program

(a) England         (b)**Germany**

(c) America         (d) India

108) The application Starts from

(a) **Aug-Oct**        (b) Nov-Dec

(c) Jan-Feb         (d) May-Jun

109) Google Ph.D fellowship is given for doing Ph.D in

(a) Analysis         (b) Geometry

(b) **Mechine learning**     (d) Algebra

110) One can get admission in MBA,PGP,PGDM courses by   qualifying

(a) UPSC         (b) JAM

(c) GATE         (d)**CAT**

111) The CAT exam is conducted by

(a) *IIM*         (b) IIT

(c) SSC         (d) CSC

112) The minimum eligibility for CAT exam is

(a) **B.Sc**　　　　　　　　　　　　(b) M.Sc

(c) 12$^{th}$　　　　　　　　　　　　(d) 10$^{th}$

113) The registration starts generally in

(a) January　　　　　　　　　　　(b) March

(c) October　　　　　　　　　　　(d) **August**

114) It is conducted in a year

(a) Twice　　　　　　　　　　　　(b) Four times

(c) **Once**　　　　　　　　　　　　(d) Thrice

115) One can attempt this exam

(a) 2,times　　　　　　　　　　　(b) **Unlimited times**

(c) 4,times　　　　　　　　　　　(d) 6,times

116) The validity of CAT scorecard is

(a) **One year**　　　　　　　　　　(b) Lifetime

(b) Two years　　　　　　　　　　(d) Five years

117) The form fill up of GATE exam starts from

    (a)**Aug-Sept**                (b)J an-Feb

    (b) Nov-Dec               (d) None of them


118) The exam Conducts in the month of

    (a) Oct                   (b) Dec

    (c) May                 (d) *Feb*


119) The minimum eligibility of the exam is

    (a)*B.Sc(Final year)*         (b) M.Sc

    (c) $12^{th}$pass             (d) $8^{th}$pass


120) Is there any age limit of this exam

    (a) Yes                  (b) *No*


121) The validity of GATE scorecard for admission in a instituion is

    (a) *Three years*         (b) Lifetime

    (c) one year            (d) none of these

122) It is conducted in a year

    (a)Twice                                (b) Four times

    (c)***Once***                                (d)Thrice


123) The CSIR-NET is conducted in a year

    (a)***Twice(Jun,Dec)***                  (b) None of them

    (c) Once(May)                       (d) thrice ( May, June, July )


124) The application for NET-JUNE starts from

    (a) April-May                         (b) ***Feb-March***

    (c) Sep-Oct                          (d) Jun-July


125) The application for NET-DEC starts from

    (a) April-May                         (b) Feb-March

    (c) ***Sep-Oct***                         (d) Jun-July


126) The minimum eligibility for this exam is

    (a)B.Sc                               (b)12th

    (c)10th                              (d)***M.Sc(Final year)***

127) The validity of NET-JRF scorecard is

    (a) **_Two years_**                          (b) Four years

    (c) Lifetime                               (d) None of them


128) The validity of NET-LS scorecard is

    (a) Two years                          (b) Four years

    (c) **_Lifetime_**                            (d) None of them


129) The application for M.Sc program through National Board for Higher Mathematics(NBHM) starts from generally

    (a) August                             (b) March

    (c) December                          (d) **July**


130) The application for Ph.D program through National Board for Higher Mathematics(NBHM) starts from generally

    (a) August                             (b) March

    (c) **_December_**                       (d) July


131) Is there any age restriction of this exam

    (a) Yes                                 (b) **_No_**

132) The validity of NBHM scorecard for admission in a instituion is

    (a) Two years                                 (b) Five years

    (c) ***One year***                                (d) Lifetime

133) The application for B.Sc, M.Sc,Ph.D program in Chennai Mathematical Institute(CMI) starts from generally

    (a) August                                   (b)**March**

    (c) December                             (d)July

134) Aryabhatta Postdoctoral Fellowship: ARIES is given for

    (a) P.hD degree holder            (b) M.sc degree hodegreeholder

    (c) B.sc degree holder           (d)Madhyamic degree holder

135) Aryabhatta Postdoctoral Fellowship: ARIES Is given for

    a) Only Mathematics students      (b) Only Engineer students

    c)Both                               (d) Others

136) Aryabhatta Postdoctoral Fellowship: ARIES Is given for the age of

    (a) **Not more than 35 years**      (b) Not more than 42 years

    (c) Not more than 52 years      (d) Not more than 52 years

137)  IST-BRIDGE International Postdoctoral Program is given for

(a)**Ph.D  degree or equivalent**   (b) B.sc students only

(c) M.sc students only          (d) H.sc Students only


138)  IST-BRIDGE International Postdoctoral Program is given for

a)Mathematical and physical Sciences

b) Life Science

(c) Information and system science

(d) All of the above


139)  ETH  Zurich Research Grants: Doctoral Project: is given for

**(a)   P.hd students Only**                (b) M.sc students Only

(c)   B.sc students Only                (d) Madhyamik  Student only


140)  The website of ETH  Zurich Research Grants: Doctoral Project; is

**(a)      www.ethgrants.ethz.ch**

(b)      www.ethgeantp.ethz.ch

(c)      www.schorship.ethz.ch

(d)   https://www.buddy4study.com/

141) ETH Zurich Research Grants: Doctoral Projects Duration time is

**(a) 3 years(max)**    (b) 5 years(max)

(c) 8 years(max)    (d) 9 years(max)

142) The Level of ETH Zurich Research Grants: Doctoral Projects is

(a) P.hD degree only

(b) Master degree only

(c) Graduations students only

(d) H.sc students only

143) The deadline of ETH Zurich Research Grants: Doctoral Projects is

(a) March & September

(b)January and February

(c) March and April

(d) December and January

144) Postdoctoral Fellowship Program IIT-K is given by

(a) Indian Institute Of Technology Kanpur

(b) Indian Institute of Technology Madras

(c) Indian Institute of Technology Delhi

(d) Indian Institute of Technology Bombay

145) Fellowship level of Postdoctoral Fellowship Program IIT-K is

    (a) <u>Postdoctoral</u>              (b) Doctoral

    (c) M.sc                    (d) B.sc

146) Which Country Provides Postdoctoral Fellowship Program IIT-K?

    (a) <u>India</u>                  (b) Japan

    (c) China                 (d) USA

147) Subject Area of Postdoctoral Fellowship Program IIT-K is

    (a) <u>Science & Engineering</u>       (b) History

    (c) Geography           (d) Others

148) Elligibility of  Postdoctoral Fellowship Program IIT-K is

    (a)**<u>Ph.D degree with experience</u>**

    (b) M.sc degree with experience

    (c) *B.sc* degree with experience

    (d) Madhyamik  degree with experience

149) Deadline of  Postdoctoral Fellowship Program IIT-K is

    (a) March-April            (b) **<u>Rolling  Advertisement</u>**

    (c) January-February       (d) November-December

150) 100 prime Minister's doctoral Research Fellowships is given by

(a) Government of japan (b) **Government of india**

(c)Government of usa (d)Government of china


151) 100 prime Minister's doctoral Research Fellowships is given to the student of

(a) Post Doctoral (b) **Doctoral**

(c) Graduate (d)Post Graduate

# Science and Engineering Research Board ( SERB )

Providing support to carry out research in emerging and frontier areas of science and engineering. Also provide financial assistance to persons engaged in such **research**, **academic institutions**, **research and development laboratories**, **industrial concerns** and **other agencies**.

152)  Is SERB a Statutory Body ?

       a) **Yes**                                     b) No

153) SERB focuses in the area of promoting basic research in

       a) **Science and Engineering**        b) Arts

       c) Economics                            d) none

154) SERB launched a scheme spacially promoting opportunities for womens called

       a) **SERB-POWER**                        b) SERB-N-Pdf

       c) **SERB Women Excellence Award**        d) MATRICS

**Note:-**  **1) "SERB Women Excellence Award" ( eligibility )**

       a)  age: below 40

       b) only for women

       c) Applicant must be having recognition from any one or more of the following national academies such as Young Scientist Medal, Young Associate etc.

**d) Candidates have excelled in science and got recognition from any of the National Science Academies (given below) in India.**

1) Indian National Science Academy, New Delhi
2) Indian Academy of Science, Bangalore
3) National Academy of Science, Allahabad
4) Indian National Academy of Engineering, New Delhi
5) National Academy of Medical Sciences, New Delhi
6) National Academy of Agricultural Sciences, New Delhi

**e) Research grant of Rs. 5 lakhs per annum and Rs. 1 lakh per annum as overhead charges for a period of three years.**

## 2) "SERB-POWER" ( eligibility )

### Two types of grant

**Level I**: The scale of funding up to **60 Lakhs for three years**. (for Applicants from IITs, IISERs, IISC, NITs, Central Universities, and national Labs of Central government Institutions)

**Level II**: The scale of funding up to **30 Lakhs for three years**. (for applicants from state Universities/ Colleges and Private Academic Institutions)

155) The mode of application in the SERB portal is

a) **online**                                        b) Offline

c) Both                                               d) any one

156) SERB launched  schemes spacially for young researchers called

a) **SERB-N-Pdf**                            b) **Startup-research grant(SRG)**

c) SUPRA                                          d) SERB-STAR

157) A scheme for Mathematical Research Impact Centric Support through SERB Called

    a) SERB-POWER               b) SERB-N-Pdf

    c) SRG                          **d) MATRICS**

158) In **MATRICS** amount of Research grant is

    a) **Rs. 2 lakh p.a. for a period of three years**

    b) Rs. 5 lakh p.a. for a period of two years

    c) Rs. 10 lakh p.a. for a period of three years

    d) Rs. 4 lakh p.a. for a period of five years

159) The **Ramanujan Fellowship** is given to the brilliant Indian scientists and engineers who wants to come from

    a) **Abroad to India & below 40years**

    b) India to Abroad & below 40years

160) The **JC Bose fellowship** is awarded to active scientists

 a) who are awarded by SS Bhatnagar prize and/or fellowship of science academies

 b) which can be availed up to 68 years of age

 c) normally twice a year periodically

 d) **All statement are correct**

# Shanti Swarup Bhatnagar Prize for Science and Technology (SS Bhatnagar prize )

1.  The **Shanti Swarup Bhatnagar Prize for Science and Technology** (**SSB**) is a science award in India given annually by the Council of Scientific and Industrial Research (CSIR) for notable and outstanding research, applied or fundamental, in **biology**, **chemistry**, **environmental science**, **engineering**, **mathematics**, **medicine**, **and physics**.

2.  The award is named after the founder Director of the Council of Scientific & Industrial Research, Shanti Swarup Bhatnagar & It was **first awarded in 1958**.

3.  It is the most coveted award in **Multidisciplinary science** in India.

4.  Any citizen of India engaged in research in any field of science and technology up to the age of 45 years is eligible for the prize & The prize is awarded on the basis of contributions made through work done in India only during the five years preceding the year of the prize.

5.  The prize comprises **a citation**, **a plaque**, and **a cash** award of **₹5 lakh (US$6,300).** In addition, recipients also receive **Rs. 15,000 per month** up to the **age of 65 years**.

# OTHER FUNDING OPPORTUNITIES through SERB

## Schemes & Programs

- Intensification of Research in High Priority Areas (IRHPA)
- Start-up Research Grant (SRG)
- Core Research Grant
- Scientific and Useful Profound Research Advancement (SUPRA)
- Empowerment and Equity Opportunities for Excellence in Science
- Mathematical Research Impact Centric Support (MATRICS)
- Impacting Research Innovation and Technology (IMPRINT-2)
- International Travel Support
- Seminar/Symposia
- Short-term special call on COVID-19
- SERB-POWER Grant

## Awards & Fellowships

- National Post Doctoral Fellowship
- J.C. Bose Fellowship
- Ramanujan Fellowship
- Teachers Association for Research Excellence (TARE)
- Visiting Advanced Joint Research Faculty (VAJRA)
- Overseas Visiting Doctoral Fellowship (OVDF)
- SERB Science and Technology Award for Research (SERB-STAR)
- SERB Women Excellence Award
- SERB-POWER Fellowship
- SERB Technology Translation Award (SERB-TETRA)
- National Science Chair

**For more details go & check their website ( https://www.serbonline.in/ )**

# The Indian National Science Academy (INSA)

( https://www.insaindia.res.in/ )

161) The main object of The Indian National Science Academy (INSA)  is

    a) promoting science in India    b) harnessing scientific knowledge

    c) **a)&b) both**    d) neither a) nor b)

162) The Indian Journal of Pure and Applied Mathematics (**IJPAM**) is published by

    a) **INSA**    b) INSPIRE

    c) SERB    d) none of these

163) Another journal other than IJPAM published by INSA which is

    a) **Indian Journal of History of Science (IJHS)**

    b) Indian Journal of Mathematics and Science (IJMS)

    c) Indian Journal of Science (IJS)

    d) All of the above

164) The **National Institute of Sciences of India** was renamed as **Indian National Science Academy** in the year

    a) **1970**    b) 1975    c) 1971    d) 1990

165) INSA JRD-TATA fellowship provides annually about 10 Fellowships to the young scientists, teachers and researchers for max 3 months below 45 years who possessing

    a) Doctorate                        b) M.sc/equivalent degree

    c) B.sc                              d) **a) & b) both**

166) The India Science and Research Fellowship (ISRF) is to provide opportunity to scientists and researchers from

    a) **neighbouring countries  to India**

    b) India to neighbouring countries (Afghanistan, Bangladesh, Bhutan, Maldives, Myanmar, Nepal, Sri Lanka and Thailand )

167) The Prize **Indira Gandhi Prize for Popularization of Science**  shall be awarded

    a) **once in three years**             b) once in two years

    c) twice in three years           d) twice in four years

168) The Prize **Indira Gandhi Prize for Popularization of Science** is given in the field of

    a) **popularization of science in any Indian language, including English**

    b) popularization of science in any Indian language, including Bengali

    c) popularization of Mathematics

    d) popularization of science

169) The prize money for the award of Indira Gandhi Prize for Popularization of Science is Rs.

    a) **25,000/- , citation and a bronze medal**

    b) 50,000/- , citation and a silver medal

    c) 25,000/- , citation and a silver medal

    d) 5,000/- , citation and a gold medal

170) **International Travel Support (ITS)** Scheme provides financial assistance to Indian researchers for presenting a research paper in an international scientific event held abroad with age group of

    a) **below 35**              b) below 40

    c) below 30              d) below 25

171) The ITS scheme provides to & fro economic class air fare whose amount is

    a) **Rs. 50,000/-**            b) Rs. 70,000/-

    c) Rs. 55,000/-            d) Rs. 40,000/-

172) By the time of submission of application Applicant must have obtained from recognized institution

    a) Master's degree in Science

    b) Bachelor's degree in professional courses

    c) an active Indian researcher engaged in R&D work

    d) **All of the above**

173) Guidelines for Student Research and Travel Grant Applications
( https://www.geneseo.edu/undergraduate_research/guidelines-student-research-and-travel-grant-applications )

      a) Student MUST attend a Proposal Writing Workshop each academic year on a full time basis.

      b) Student may apply twice a year and the year begins with the summer deadline.

      c) A maximum of $600 will be awarded to each undergraduate recipient per semester or summer.

      d) Groups of 3 or more students applying together for the same project will be given $1,500.

      e) Projects must be supervised by a faculty mentor or sponsor and candidates must have a proper career goals.

174) Indira Gandhi Single Girl Child Scholarship offered financial assistance for two years of INR

      a) 36,200 per annum             b) 30,500 per annum

      c) 60,000 per annum           d) 36,500 per annum

175) Indira Gandhi Single Girl Child Scholarship given only girls students pursuing

      a) **PG course**                   b) UG course

      c) B.ed                       d) All of these

# NISER  Travel Support

राष्ट्रीय विज्ञान शिक्षा एवंअनुसंधान संस्थान
National Institute of Science Education and Research
परमाणु ऊर्जा विभाग, भारत सरकार का एक स्वयंशासित संस्थान
AN AUTONOMOUS INSTITUTE UNDER DAE, GOVERNMENT OF INDIA

NISER

Home › Travel Support

## Travel Support

- DBT
    - CREST Award
    - Travel Support for attending International Conference/ Seminar/ Symposium
- DST
    - International Travel support Scheme
- ICMR
    - International Travel by Non-ICMR Scientists
- INSA-CSIR-DAE/BRNS-DOS/ISRO
    - CICS Travel Fellowship Programme
- International Brain Research Organisation (IBRO)
    - International Travel Grants
- Ratan Tata Trust and Navajbai Ratan Tata Trust
    - Education grant- Travel grants
    - Joint Research Project

# Some others fellowship program for women

1) Women Scientist Scheme by DST
2) Women Scientist Scheme by DBT
3) Women in Science lectures by EMBO
4) Post Doctoral Fellowship for Women

# DST Women Scientist Scheme (WOS-A)

( https://online-wosa.gov.in/wos/ )

176) The Education Qualification for DST Women Scientist Scheme is

    a) **M.sc/equivalent degree**        b) Under graduation

    c) diploma                         d) Any of these

177) Which organization  awards women scientists  by this schemes

    a) **Department of Science and Technology**

    b) Department of telecommunication

    c) Department of women and child development

    d) Department of health and family welfare

178) The age limit for DST Women Scientist Scheme is

    a) **27 years**             b) 28 years

    c) 29 years            d) 30 years

179) Which statement is correct for DST Women Scientist Scheme ?

    a) The amount of fellowship for M.sc students will be Rs. 30,000/- PM

    b) Women scientists, with M.Tech, or MD/MS, DM/MCH in Medical Sciences will be given Rs.40,000/- PM

    c) Women scientists having Ph.D. A degree in Basic or Applied Sciences will be entitled to a fellowship of Rs.55,000/- PM.

    d) **All of these**

# "Innovation in Science Pursuit for Inspired Research" (INSPIRE)

( https://www.online-inspire.gov.in/ )

180) INSPIRE Faculty Fellowship Scheme is a component under INSPIRE for young researchers in the age group of

    a) **27-32 years**                           b) 25-32 years
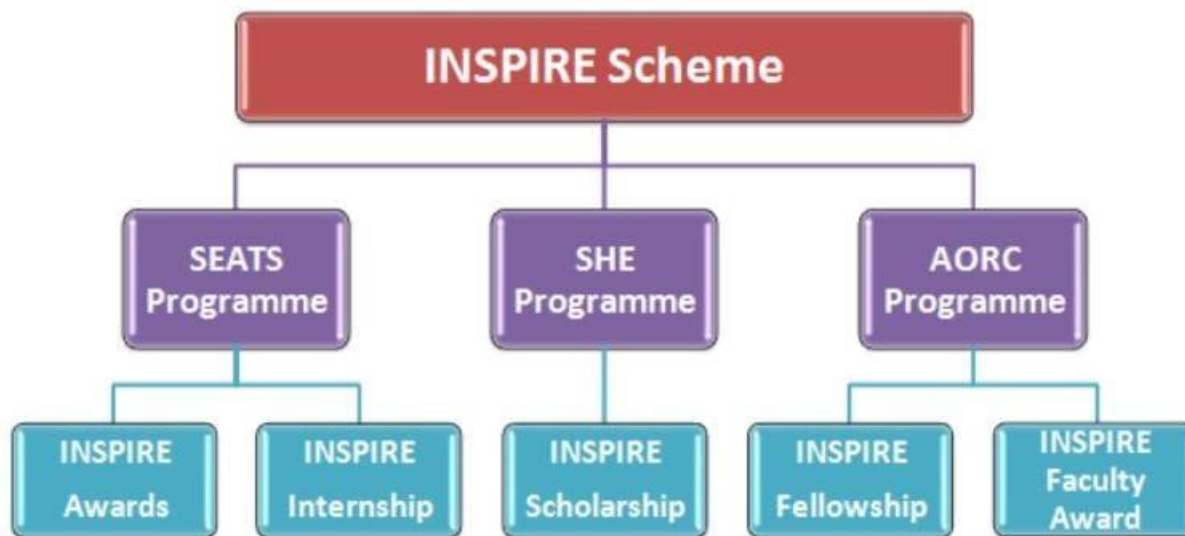
    c) 27-30 years                           d) 25-30 years

181) How many scheme under INSPIRE ?

    a) **3**              b) 5             c) 4             d) 6

182) Which are the name of the INSPIRE schemes

     a) Scheme for Early Attraction of Talent (SEATS)

     b) Scholarship for Higher Education (SHE)

     c) Assured Opportunity for Research Careers (AORC)

     d) **All of these**

183) SEATS aims for the students by providing **INSPIRE Award** of Rs 5000 to one million young learners from class

     a) **VI to Class X**                             b) VII to Class X

     c) VIII to Class X                           d) All of these

184) The scheme **SHE** offers 10,000 Scholarship every year in the age group 17-22 years with Rs.

     a) **80,000**          b) 50,000          c) 40,000          d) 1lakh

185) Which are true ?

**INSPIRE AORC** is given

     a) For 2 years, the selected fellows receive a monthly amount of INR 25,000.

     b) For the last 3 years, the fellows receive INR 28,000 per month.

     c) Fellows also receive House Rent Allowance (HRA) and a contingency grant of INR 20,000 per annum.

     d) **All of these**

186) I have completed my B.Sc. course. I wish to avail one-year break from studies before joining M.Sc. course. Will my scholarship be continued?

      a) Yes                                                b) **No**

187) Age criterion for applying for SHE

      a) **17-22**            b) 18-23           c) 16- 23           d) 20-25

188) <mark>Swami Vivekananda Scholarship</mark> is also known as

      a) **Bikash Bhavan Scholarship**                b) Nabanna  scholarship

189) The scholarship amount ranges from (HS, UG Honors, PG, Medical, Engineering, Nursing, Paramedical, Diploma)

      a) **INR 12,000 to INR 60,000 per annum.**
      b) INR 20,000 to INR 60,000 per annum.
      c) INR 12,000 to INR 70,000 per annum.
      d) INR 12,000 to INR 80,000 per annum.

190) Kanyashree K3 scholarship for

      a) **P.G Students**                        b) U.G Students

191) To apply K3 student have to pass an UG degree with percentile

      a) **45%**              b) 40%            c) 60%            d) 55%

192) Under K3 Scheme Science students will receive per month Rs.

      a) **2500**             b) 2000            c) 4000            d) 1000