

**On-Line Application Form Available at [admission.smvdu.ac.in](http://admission.smvdu.ac.in)**



**Shri Mata Vaishno Devi University  
Entrance Examination -2019  
(SMVDUEE – 2019)**

**(For Admission to B.Tech., M.Tech., MBA, M.Sc., M.A. &  
Integrated Programs)**

**INFORMATION BULLETIN**

## Revised Dates for SMVDUEE 2019

The fresh dates for conduct of SMVDUEE 2019 are as given below:

Sr.	SMVDUEE 2019 for Admission to	Last Date for Submission of Application Forms	Date of Conduct of SMVDUEE 2019
1	B.Tech. MBA 5 Year Integrated M.Sc.(Economics)	6 <sup>th</sup> May 2019	11 <sup>th</sup> May 2019
2	M.Sc. (Physics), M.Sc.(Mathematics), M.Sc.(Biotechnology) M.A. (English), M.A(Philosophy) M.Tech.	10 <sup>th</sup> June 2019	15 <sup>th</sup> June 2019
3	Ph.D.	5 <sup>th</sup> July 2019	10 <sup>th</sup> July 2019

**Contact:**  
**Coordinator, SMVDUEE-2019**  
**Shri Mata Vaishno Devi University**  
**Kakryal, Katra, J&K 182320**  
**Toll Free No. 1800-180-7133**  
**Email: [smvdu2019@smvdu.ac.in](mailto:smvdu2019@smvdu.ac.in)**  
**Website: [www.smvdu.ac.in](http://www.smvdu.ac.in)**

## **IMPORTANT INSTRUCTIONS**

1. Candidates of SMVDUEE– 2019 have to apply online at [www.smvdu.ac.in](http://www.smvdu.ac.in). There is no printed application form for SMVDUEE-2019.
2. After the declaration of the result of SMVDUEE-2019, each candidate shall be allocated a unique rank based on his/her performance in the SMVDUEE-2019.
3. The number of branches and seats given in this brochure is tentative and subject to change at the sole discretion of the University. SMVDUEE Secretariat does not have any role in seat allocation process.
4. All the candidates who have submitted the online application and paid the examination fee till the last date of submission of applications will be allowed to provisionally appear in SMVDUEE-2019 and their admit cards will be uploaded on the website as per schedule.
5. SMVDUEE-2019 Secretariat shall not pre-verify the information filled by the candidates in the application form nor shall we verify any certificate educational qualification for deciding the eligibility of candidates.
6. The certificates of educational qualification will be verified at the time of counselling/ admission only by the concerned committee. Any candidate who does not fulfil the eligibility criteria shall be denied admission/ participation in the counselling process at any stage. Candidates are, therefore, advised to ensure their eligibility.
7. An application fee of Rs.1500/- (Non-refundable) is charged as Application Fee which will be paid on-line at the time of submission of On-Line Application Form. This fee may be paid either by Credit/Debit Card/Net Banking during the online filling of the application form. Application fee once paid will not be refunded (full or partial) under any circumstances. **In case of any Technical failure in payment of the Application fee on-line, the university will have no liability and the Application Form will not be deemed to have been submitted.**
8. The candidates are required to take the print out of the Application form after successful payment of Application Fee. It may be noted that the student will not be able to print out the Application Form if the application fee has not been paid.
9. The candidates should select the cities of examination as per their choice available at the time of filling the online examination form and they are required to fill a minimum of 4 options. The candidate shall be allocated any of those centres or any other centre as may

be decided by the University. The decision of the university in this regard shall be final and binding and no request whatsoever shall be entertained by the University.

10. The name of the candidate and his/her parents name in the application form **must exactly be the same** as registered in Class 10<sup>th</sup> **Marksheet / Certificate**. No prefix/title such as Mr/Shri/Fr/Dr/Mrs/Smt/Col etc should be used.
11. No options can be changed at a later stage after submission of an application. However, a chance may be given to the candidates to correct/modify some of the particular(s) of the application form online only, with valid reason(s).
12. The SMVDUEE-2019 application is completely online process i.e. the candidate have to fill the particulars online and also upload their photograph and signature. Due to above, there is no need of sending the hard copy of the Application Form to SMVDU. **However, the candidates are advised to retain hard copy of the Application Form for future reference or correspondence, if any.**
13. Candidate(s) may check the status of their application on SMVDUEE-2019 website.
14. The Hon'ble High Court of J&K (Jammu) alone will have the jurisdiction to settle and decide all matters and disputes related to SMVDUEE- 2019.
15. The offer of provisional admission shall be subject to verification of original certificates/ documents at the time of admission. If any candidate is found ineligible at a later date even after admission may have been offered, his/her admission will be cancelled with no further notice and no liability to the university. It is incumbent upon the candidates to check and ensure that they are meeting the eligibility criteria for admission to various programs.
16. **The candidates must have their own personal and valid email id. They are also advised to have their own mobile number.** The candidates are advised to retain the same mobile number and email-id in use which they have furnished in the application form as important information may be given to the candidates through SMS/e-mail.
17. The decision of the University regarding the eligibility of any applicant shall be final.
18. All correspondence related to **SMVDEE –2019** should be addressed to:

**The Coordinator**  
**SMVDUEE 2019**  
**Shri Mata Vaishno Devi University**  
**Kakryal, Katra, J&K 182320**  
**Toll Free No. 1800-180-7133**  
**Email: [smvduee2019@smvdu.ac.in](mailto:smvduee2019@smvdu.ac.in)**  
**Website: [www.smvdu.ac.in](http://www.smvdu.ac.in)**

19. For latest information related to SMVDUEE-2019 kindly visit University Website:  
[www.smvdu.ac.in](http://www.smvdu.ac.in).

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## 1. INTRODUCTION AND SCHEME OF EXAMINATION

The SMVDUEE-2019 has been designed as a test to measure the suitability of the candidate for admission to the various programs at SMVDU (*a State University recognized under Section 2(f) and 12(B) of the UGC Act of 1956*). The criteria for admission shall be based on the performance of the candidate in the SMVDUEE-2019 while ensuring that the eligibility criteria is met (See Eligibility criteria at 2.9)

## 2. ABOUT SMVDUEE –2019

### 2.1 Mode of Examination

**SMVDUEE-2019 will be conducted in Offline (Pen and Paper Based Examination) mode / On-Line (Computer Based Mode) as may be decided and informed to the candidates in advance.**

### 2.2 Schedule of Examination

Programme	Date	Syllabus
B.Tech	11 <sup>th</sup> May 2019	As per Syllabus of JEE (Main) 2019 (See Appendix -1)
M. Tech.(ECE, CSE, M&A)	15 <sup>th</sup> June 2019	As per Syllabus of GATE 2019 for the relevant program For M. Tech.(ECE)-EC Syllabus For M. Tech.(CSE)-CS Syllabus For M. Tech.(M&A)-ME Syllabus (See Appendix -1)
M. Tech.(Energy Systems)	15 <sup>th</sup> June 2019	As per Syllabus defined at Appendix-1
M.Sc.(Physics)	15 <sup>th</sup> June 2019	As per Syllabus defined at Appendix-1
M.Sc.(Math / Biotechnology)	15 <sup>th</sup> June 2019	As per Syllabus defined at Appendix-1
MBA	11 <sup>th</sup> May 2019	As per Syllabus of MAT 2019 (See Appendix -1)
M.A. (English/Philosophy)	15 <sup>th</sup> June 2019	As per Syllabus defined at Appendix-1
Integrated M.Sc.(Economics)	11 <sup>th</sup> May 2019	As per Syllabus defined at Appendix-1
Ph.D.	10 <sup>th</sup> July 2019	To be Announced

### 2.3 Choice of Medium of Question Papers

English Medium only

### 2.4 Provisions for Persons with Disabilities

The candidates with disability should fill in the type and percentages of disability correctly in the online application form for SMVDUEE-2019.

Only the visually challenged candidates, who have 40% or more disability, will be provided Scribe/Reader on the request of the candidate. In no case, the candidates will be allowed to bring their own scribe.

Such candidate will have to submit the request to the SMVDUEE-2019 Coordinator in writing at least 7 days before the examination.

The SMVDUEE-2019 Coordinator/Centre Superintendent will identify the scribe/ reader. In case a request is received from the candidate, he/she would be allowed to meet the scribe a day before the examination to verify the suitability of the scribe.

One hour compensatory (extra) time will also be allowed to the candidates with 40% or more disability irrespective of the fact that the candidate(s) is/are availing the facility of scribe/reader.

## **2.5 Cities/Towns of SMVDUEE- 2019 Examination Centres**

SMVDUEE - 2019 will be conducted in some major cities and towns of India as may be identified for the purpose by the University depending on the number of applicants for that city. The tentative initial list of cities is given in **Appendix-2**. While applying, candidates must select four centre cities examination. However allotment of test centre shall be at the sole discretion of the University and the University reserves the right to drop some Centres/add new Centres from the list at **Appendix -2**. However, efforts will be made to allot candidate's city as per their choice opted for in the application form. In some exceptional circumstances, a different city in nearby area may be allotted.

## **2.6 Requests for Change of Examination City/Town**

Normally, the requests for change of centre will not be entertained. In this regard, the decision of the University will be final.

## **2.7 Use of Calculator and Communication Aids**

Use of electronic devices like mobile phone, calculator etc. is **NOT PERMITTED** in SMVDUEE - 2019. Materials like log table, book, notebook, etc. should **NOT** be brought into the examination hall.

## **2.8 Eligibility for appearing in SMVDUEE – 2019**

Candidates, whose valid Application Form, with valid details has been successfully submitted in the Application Form dashboard on admission.smvdu.ac.in with successful payment of Rs. 1500/- as Application Fee (Payment Status – Success on Application Form) may be provisionally allowed to take the SMVDUEE 2019 examination. Admit Cards of the applicants allowed to take the SMVDUEE 2019 Exam will be available in their Application Form Dashboard on admission.smvdu.ac.in for download.

There is no age limit on the candidate appearing for SMVDUEE 2019. Date of birth as recorded in the Secondary Education Board/University certificate will only be considered.

## **2.9 Score and Result for SMVDUEE - 2019**

- I.** The All India Rank obtained by the candidate in SMVDUEE – 2019 will be declared tentatively by 5<sup>th</sup> May 2019.
- II.** All India Rank (AIR) shall be used for admission process at the University.
- III.** No Rank card will be dispatched to the candidates and the candidates are advised to download their Rank Cards from the dashboard on university website [www.smvdu.ac.in](http://www.smvdu.ac.in) through which they had submitted their Application Form.
- IV.** In case of a tie, i.e. when two or more candidates obtain equal marks, inter-se merit of such candidates shall be decided in the order mentioned under:

### **Rank list for admission to B. Tech.**

- Resolution by marks obtained in Mathematics in SMVDUEE – 2019. Candidate obtaining higher marks will be given better rank.
- Resolution by marks obtained in Physics in the SMVDUEE – 2019. Candidate obtaining higher marks will be given better rank.



- Resolution based on Date of Birth with the older candidate getting the higher rank

### **Rank list for admission to M.Sc., M.A, MBA, Integrated M.Sc.(Economics)**

- Resolution based on Date of Birth with the older candidate getting the higher rank

V. The answer keys & question paper of SMVDUEE-2019 will be displayed on the website [www.smvdu.ac.in](http://www.smvdu.ac.in). The candidates, who have any reservations regarding the answer keys, may challenge by filling through online application Mode and paying a sum of Rs.1000/- per question. The challenge of answer keys will also be accepted online only through the link available on the website [www.smvdu.ac.in](http://www.smvdu.ac.in) on payment of Rs.1000/- per question. The fee can be paid by credit/debit card/Netbanking. The fee once paid is non-refundable, however, in case the challenge is accepted by the SMVDUEE-2019 Secretariat, the fee of Rs. 1500/- for each accepted challenge will be refunded to the concerned candidate. Such refund will be made online to the concerned credit/debit card account, so the candidates/parents are advised to use their own credit/debit card for making above payment. The SMVDUs decision on the challenges shall be final and no further communication will be entertained.

## **3 Eligibility**

### **3.1 Eligibility for Admission to SMVDU Counselling process**

As SMVDUEE 2019 shall be conducted for admission to various UG, PG, Integrated & Doctoral programs at SMVDU, wherein the eligibility criteria is different for the various programs, the details regarding the eligibility criteria for admission of all the programs can be obtained from the [Admission Brochure 2019](#) hosted on the University Website [www.smvdu.ac.in](http://www.smvdu.ac.in) and is also accessible on the candidate's dashboard on [admission.smvdu.ac.in](http://admission.smvdu.ac.in)

It may be noted that unless the candidate proves that he/she meets the eligibility criteria by the designated date, as specified in [Section 5.2\(b\)](#) in the [Admission Brochure 2019](#), the offer of provisional admission, if made, will be withdrawn without any further notice and provisional admission, if granted, granted will be cancelled.

### **3.2 Reservation of seats**

5% Seats are reserved for Persons with disabilities under Equal opportunities, Protection of rights & Full participation) Act, 1995. Details can be obtained from Admission Office and website [www.smvdu.ac.in](http://www.smvdu.ac.in) . See **Appendix 8**.

Relaxation/Fee Concession in admissions to various programs to the extent of 2% for Children of Martyrs of Defence forces (under the administrative control of Ministry of Defence, Govt. of India) and Central Armed Police Forces (under the administrative control of Ministry of home affairs, Govt. of India), is available. However, candidates must meet minimum eligibility criteria for admissions as notified by the university.

### **3.3 Seat Allocation Process and Admission Procedure**

Candidates shall be offered admission based on their All India Rank obtained in SMVDUEE-2019 (and preference of stream, as filled by the candidate in their application Form, in case of B.Tech.) and intimation regarding Seat Allocation shall be done after declaration of result. The Provisional Admission Offer Letter shall be available in the Application Form Dashboard

of the candidate as available on [admission.smvdu.ac.in](http://admission.smvdu.ac.in) . SMVDUEE-2019 Secretariat is only responsible for conduct of the test and counselling shall be done by a different admission committees at appropriate time.

Candidates are advised to regularly visit the University website [www.smvdu.ac.in](http://www.smvdu.ac.in) for latest information. The verification of documents would be done at the time of physical reporting which will be intimated later. Failure to prove the eligibility by providing the requisite documents will result in cancellation of admission at any stage.

#### **4. APPLICATION PROCEDURE FOR SMVDUEE –2019**

In order to appear in SMVDUEE- 2019, the candidates are required to apply online as per procedure detailed below. Please visit website [www.smvdu.ac.in](http://www.smvdu.ac.in) and [admission.smvdu.ac.in](http://admission.smvdu.ac.in)

##### **4.1 Applying Online and Submission of Application**

The online submission of particulars, uploading of scanned photograph and signatures may be made at SMVDUEE-2019 website. The candidates should supply all the required details while filling up the online form. On submission of details, Acknowledgement Page with Application No. shall be generated.

Candidates are required to take printout of Application Form and keep it for reference. The

Application Form is **not required to be sent** to SMVDUEE-2019 Secretariat. The application fee of Rs.1500/- can be paid by credit/debit card/ Netbanking.

##### **4.2 Instructions for Applying Online**

**Before filling up the application form the candidate should have a scanned image of his/her photograph, signature and father's/mother's/guardian's signature. These scanned images are to be uploaded during the submission of application form. The photograph should be colour or b/w (but clear contrast) with name of the candidate and date of taking the photograph printed on it as shown below.** It should be without cap or goggles. Spectacles are allowed. **Polaroid photos are not acceptable.** Candidates with unclear photograph are liable to be rejected. Candidates may keep 6-8 identical photographs in reserve for use at the time of entrance examination, Seat Allocation Process and Admission.

#### **5. ADMIT CARD FOR SMVDUEE - 2019**

The Admit Card can be downloaded from SMVDUEE-2019 website. The Candidates are also advised to regularly see SMVDUEE-2019 website ([www.smvdu.ac.in](http://www.smvdu.ac.in)) for updates. A Help Desk will also be functional on all working days from 10.00 AM to 4.00 PM for general facilitation. The phone numbers of the help desk are available on the website of SMVDUEE-2019. **(Toll Free Number: 1800-180-7133 / 01991 285524 Extension 2212)**

#### **6. SMVDUEE – 2019**

##### **6.1 Guidelines to Candidates**

1. Please check the Admit Card carefully for your Name, Date of Birth, Gender, Test Centre Name, City, and PwD Category (if applicable). In case of any discrepancy, communicate to SMVDUEE-2019 Secretariat immediately for necessary action.
2. The Admit Card is issued provisionally to the candidate subject to his/her satisfying the eligibility conditions.

3. The examination rooms/hall will be opened 1 hour before the commencement of the test. Since the Candidates will be frisked so they should report at-least 1 ½ hours earlier at examination centre to avoid rush at the time of frisking. The candidates should take their seats in the examination hall immediately after frisking. If the candidates do not report in time, they are likely to miss some of the general instructions to be announced in the Examination Hall.
4. The candidate must show, on demand, the Admit Card & Valid ID Proof (As per Appendix-XX) for admission in the examination room/hall. A candidate who does not possess the Admit Card issued by the University shall not be permitted for the examination under any circumstances by the Centre Superintendent.
5. Candidates are advised to bring with them a cardboard or a clip board on which nothing should be written, so that they have no difficulty in filling responses in the Answer Sheet even if the tables provided in the examination room/hall do have smooth surface.
6. The candidates claiming the relaxation under PwD category must carry with them the copy PwD certificate in the prescribed format (Appendix 9) issued by the Competent Authority.
7. No candidate, under any circumstances, will be allowed to enter the Examination Centre after the commencement of the examination.
8. A seat indicating roll number will be allocated to each candidate. Candidate should find out and occupy their allotted seat only. Any candidate found to have changed room or the seat on his/her own other than allotted, his/her candidature shall be cancelled and no plea would be accepted for it.
9. Ten minutes before the commencement of the paper, each candidate will be given sealed Test Booklet with an Answer Sheet placed inside it.
10. Immediately on receipt of the Test Booklet the candidate will fill in the required particulars on the cover page of the Test Booklet with Ball Point Pen provided by the university only. He/She will not open the Test Booklet until asked to do so by the Invigilator. Do not open/break the seal before the announcement.
11. Candidates must follow the instructions strictly as instructed by the Centre Superintendent/Invigilators.
12. No Candidate will be allowed to carry any baggage inside the Examination Centre. SMVDU will not be responsible for any belongings stolen or lost at the premises.
13. Candidates are not allowed to carry any textual material, Calculators, Docu Pen, Slide Rules, Log Tables, Electronic Watches with facilities of calculator, printed or written material, bits of papers, mobile phone, pager or any other device, except the Admit Card, identity proof, document as required under point no. 4 inside the Examination Room/Hall. If any candidate is in possession of any of the above items, his/her candidature will be treated as unfair means and his/her current examination will be cancelled & he/she will also be debarred for future examination(s) & the equipment will be seized.
14. Smoking and eating is strictly prohibited in the examination room.
15. Tea, coffee, cold drinks or snacks are not allowed to be taken into the examination rooms during examination hours.
16. No candidate, without the special permission of the Centre Superintendent or the Invigilator concerned, will leave his/her seat or Examination Room until the full duration of the paper. Candidates should not leave the room/hall without handing over their Answer Sheets to the Invigilators on duty.
17. The candidates, suffering from diabetes, are allowed to carry into the examination hall the eatables like sugar tablets / fruits (like banana/apple/ orange) and transparent water bottle. However, the candidates are not allowed to carry packed foods like chocolate / candy/ sandwich in the examination hall.

## **6.2 Instructions for Examination**

1. Five minutes before the commencement of the paper the candidate will be asked to break/open the seal of the Test Booklet. He/ She will take out the Answer Sheet carefully. The candidate should check carefully that the Test Booklet Code printed on Side-2 of the Answer Sheet is the same as printed on the Test Booklet. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.
2. Candidate will then write particulars with Blue/Black ball point pen (Provided at Exam Centre) only on both the sides of the Answer Sheet. Use of pencil is strictly prohibited. If one uses the pencil, his/her answer sheet will be rejected and no correspondence will be entertained in this regard. After completing this step, the candidates will wait for the instruction by the invigilator.
3. 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.
4. The test will be of 2 hrs duration.
5. All questions will have equal weightage.
6. Each question is allotted 4 (four) marks for the correct response. No marks will be awarded if no response is indicated for a question.
7. There is only one correct response for each question out of four responses given. In case, the candidate provides more than one response for a question, no marks will be awarded.
8. During the examination time, the invigilator will check Admit Card of the candidate to satisfy himself/herself about the identity of each candidate. The invigilator will also put his/her signatures in the place provided in the Answer Sheet on Side-1.
9. The Ball Pens will be supplied to the candidates in the examination hall so they should not bring any type of Pen/Ball Pens with them.
10. 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.
11. The candidate will check that the Test-booklet contains as many numbers of pages as are written on the top of the first page of the Test Booklet. **The candidates should also verify the serial number and series of the Test Booklet with the serial number and series of OMR sheet / Answer Sheet. In case of any variation, the Test Booklet and OMR sheet /Answer Sheet should be immediately returned to the invigilator for the replacement with another set of same series available in the examination hall/centre.**
12. The candidates must sign twice on the Attendance Sheet at the appropriate place. Firstly, immediately after commencement of the Examination and for the second time while handing over the Answer Sheet to the Invigilator. The candidates are also required to put their left hand thumb impression in the space provided in the Attendance Sheet.
13. The candidates are governed by all Rules and Regulations of the University with regard to their conduct in the Examination Hall. All cases of unfair means will be dealt with as per rules.

## **7. CODE OF CONDUCT FOR CANDIDATES DURING SMVDUEE - 2019**

Candidates shall maintain perfect silence and attend to their Question Paper only. Any conversation or gesture or disturbance in the Examination Room/Hall shall be deemed as misbehaviour. If a candidate is found using unfair means or impersonating, his/her candidature shall be cancelled and he/she will be liable to be debarred for taking examination either permanently or for a specified period according to the nature of offence.

Candidates are not allowed to carry any textual material, Calculators, Docu-Pen, Slide Rules, Log Tables, Electronic Watches with facilities of calculator, printed or written material, bits of papers,

mobile phone, pager or any other device, except the Admit Card inside the Examination Room/Hall. If any candidate is in possession of any of the above item, his/her candidature will be treated as unfair means and his/her current examination will be cancelled & he/she will also be debarred for future examination(s) & the equipment will be seized.

The candidate shall not remove any page(s) from the Test-Booklet and if he/she is found to have removed any page(s) from his/her Test Booklet, he/she will be presumed to have used unfair means and shall be liable for criminal action.

## APPENDIX-1

### SYLLABUS FOR SMVDUEE – 2019

#### **B.Tech Programme:**

Same as for JEE(Main) 2019 Examination which can be seen at the official website of JEE Main <https://jeemain.nic.in>

#### **M.Tech Programme:**

For M. Tech.(Electronics & Communication Engineering (ECE)/ Computer Science & Engineering (CSE) / Manufacturing & Automation (M&A))

As per Syllabus of GATE 2019 (<http://gate.iitm.ac.in/>) for the relevant program

For M. Tech. (ECE) - Syllabus for EC as per GATE 2019

For M. Tech. (CSE) - Syllabus for CS as per GATE 2019

For M. Tech. (M&A) - Syllabus for ME as per GATE 2019

#### **For M.Tech.(Energy Systems)**

##### **1. Engineering Mathematics**

**Linear Algebra:** Matrix algebra, systems of linear equations, eigenvalues and eigenvectors.

**Calculus:** Functions of single variable, limit, continuity and differentiability, mean value theorems, indeterminate forms; evaluation of definite and improper integrals; double and triple integrals; partial derivatives, total derivative, Taylor series (in one and two variables), maxima and minima, Fourier series; gradient, divergence and curl, vector identities, directional derivatives, line, surface and volume integrals, applications of Gauss, Stokes and Green's theorems.

**Differential equations:** First order equations (linear and nonlinear); higher order linear differential equations with constant coefficients; Euler-Cauchy equation; initial and boundary value problems; Laplace transforms; solutions of heat, wave and Laplace's equations.

**Complex variables:** Analytic functions; Cauchy-Riemann equations; Cauchy's integral theorem and integral formula; Taylor and Laurent series.

**Probability and Statistics:** Definitions of probability, sampling theorems, conditional probability; mean, median, mode and standard deviation; random variables, binomial, Poisson and normal distributions.

**Numerical Methods:** Numerical solutions of linear and non-linear algebraic equations; integration by trapezoidal and Simpson's rules; single and multi-step methods for differential equations.

##### **2. Engineering Knowledge**

**Fluid Mechanics:** Fluid properties; fluid statics, manometry, buoyancy, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum; Bernoulli's equation

**Thermodynamics:** Thermodynamic systems and processes; properties of pure substances, behaviour of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes; second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.

**Engineering Mechanics:** Free-body diagrams and equilibrium; trusses and frames; kinematics and dynamics of particles and of rigid bodies in plane motion.

**Mechanics of Materials:** Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; deflection of beams; torsion of circular shafts; testing of materials with universal testing machine; testing of hardness and impact strength.

**Electric Circuits**

Network graph, KCL, KVL, Node and Mesh analysis, Transient response of dc and ac networks, Three phase circuits, Power and power factor in ac circuits.

**Power Systems**

Power generation concepts, ac and dc transmission concepts, Models and performance of transmission lines and cables, Voltage and Frequency control, Power factor correction, Symmetrical components, Symmetrical and unsymmetrical fault analysis, Principles of over-current, differential and distance protection; Circuit breakers, System stability concepts, Equal area criterion.

**Electrical and Electronic Measurements**

Measurement of voltage, current, power, energy and power factor; Instrument transformers, Digital voltmeters and multimeters, Phase, Time and Frequency measurement; Oscilloscopes, Error analysis.

**MBA Programme:**

As per Syllabus of MAT 2019 available on their official website <https://mat.aima.in>

**Integrated M.Sc. (Economics) Programme:**

**Economic theory**

Introductory Microeconomics: Utility and Marginal Utility, Demand and law of demand, Elasticity of Demand, Types of Goods, Cost curves, Revenue curves, Supply and law of supply, Types of Market, Equilibrium Price and profit maximization in different markets.

Introductory Macroeconomics: Aggregate demand and aggregate supply, Macroeconomic aggregates (definitions and concepts)

**Mathematics and Statistics**

Set Theory, Relation and Function, Limit and Continuity, Derivatives, Number systems, Progressions and Series, Permutations and Combinations, Probability, Matrices and Determinants.

Introduction to Statistics, Methods of Data Collection and Presentation, Measures of Central Tendency, Measures of Dispersion, Correlation.

**General knowledge (Related to economics)**

Reading Material:

1. Introductory Microeconomics (Textbook of economics for class XII), NCERT
2. Introductory Macroeconomics (Textbook of economics for class XII), NCERT
3. Indian Economic Development (Textbook for class XI), NCERT
4. Mathematics (Textbook for class XI), NCERT
5. Mathematics (Textbook for class XII) part 1, NCERT
6. Mathematics (Textbook for class XII) part 2, NCERT

## **M.A. / M.Sc. Programme:**

### **For M.A. (English)**

- a. Basic English Grammar: Synonyms, Antonyms, Tenses, Simple & Compound Sentences, and the like.
- b. General Knowledge Related to English Literature, Language & Famous Literary Writers
- c. Common Language and Literary Terms
- d. Unseen Passage (Comprehension)
- e. Basic Communication Skills

**The level shall be of graduation standard**

### **For M.A. (Philosophy)**

- a. Indian Philosophy: Carvaka, Buddhism, Jainism, Nyaya, Vaisesika, Samkhya, Yoga, Mimamsa, Advaita Vedanta and Visistadvaita Vedanta
- b. Western Philosophy: Socrates, Plato, Aristotle, Thomas Aquinas, St. Anselm, Rationalism, Empiricism, Ethical Theories (Utilitarianism and Deontology), Logic (Categorical Proposition and Categorical Syllogism)

**The level shall be of graduation standard**

### **For M.Sc. (Mathematics)**

#### **REAL ANALYSIS**

Finite and infinite sets, countable and uncountable sets, bounded and unbounded sets, suprema and infima, axiomatic definition of real number system as a complete ordered field, least upper bound and greatest upper bound properties of reals, the field of rational numbers is not complete, characterization of suprema and infima of sets, Archimedean property, existence of rationals and irrationals between reals, concept of cluster points and statement of Bolzano-Weierstrass theorem. Real sequences and their boundedness, convergence and divergence, uniqueness of limit, algebra of limits, Cauchy convergence criterion, Cauchy's first and second theorem on limits, squeeze theorem, monotone convergence theorem, Nested-interval property of real numbers. Infinite series and their convergence and divergence, Continuity and uniform continuity. Sequences and series of functions, pointwise and uniform convergence,

#### **ALGEBRA**

Binary operations, semi-groups and groups, Abelian and non-abelian groups, finite groups, order of an element of a group, permutation groups, even and odd permutations.

Subgroups, centre of a group, commutator subgroup of a group, cyclic groups, their generators and properties. Cosets, index of a subgroup, Lagrange's theorem, normal subgroups, quotient groups.

Homomorphism and isomorphism of groups and their examples, kernel of a homomorphism, group of automorphisms, fundamental theorems of homomorphism, transformation groups and Cayley's theorem, cyclic groups up to isomorphism. Concepts of rings, integral domains and fields, subrings,



ideals, quotient ring, ring homomorphism and isomorphism, fundamental theorem of ring homomorphism, prime ideals, maximal ideals.

### **CALCULUS**

Asymptotes, curvature, double points, curve tracing, Taylor's and Maclaurin's Theorem, Partial differentiation, Properties of definite integrals. Reduction formulae for integrals of rational, trigonometric, exponential and logarithmic functions and of their combinations. Areas and lengths of curves in the plane, volumes and surfaces of solids of revolution. Double and Triple integrals.

### **VECTOR CALCULUS**

Differentiation and partial differentiation of a vector function. Derivative of sum, dot product and cross product of two vectors. Gradient, divergence and curl.

### **LINEAR ALGEBRA**

Vector spaces, subspaces of a vector space and quotient space. Linear combination of vectors, linear span, linear dependence and linear independence of vectors. Basis and dimension, Homomorphism and Isomorphism of vector spaces. Fundamental theorem of Homomorphism.

Dual spaces of a finite dimensional vector space. Linear transformation, algebra of linear transformation, Null space and range space. Rank - Nullity theorem. Matrices: Symmetric, Skew-Symmetric, Hermitian, Skew- Hermitian, Unitary and Orthogonal. Rank of a matrix, characteristic polynomial of a matrix, eigen values, eigen vectors. Cayley – Hamilton theorem and its applications.

### **COMPLEX ANALYSIS**

The complex plane, properties of complex numbers, polar representation, De- Moivre's theorem and its applications in finding the roots of complex numbers and in expressing powers of sine and cosine in terms of series of sine or cosine of multiples of  $\theta$  and vice-versa. Functions of complex variables, exponential function, Logarithmic functions. Circular and hyperbolic functions of complex variables, relation between them and their properties. Summation of series of circular functions. Limits, Limits involving the point at infinity, continuity, regions in the complex plane, mapping and differentiability. Cauchy Riemann equations, sufficient condition for differentiability. Analytic functions, Definite integral of functions. Contour integral. Maximum Modulus Principle. Cauchy-Goursat theorem, Cauchy Integral Formula.

### **NUMERICAL METHODS**

Finite Differences, the operators  $\Delta, \nabla, E, D$  and relation between them, separation of symbols. Interpolation, Newton's formula for Forward and Backward Interpolation, Lagrange's interpolation formula. Central Differences, Gauss Forward and Backward Interpolation formula. Sterling's formula, Bessel's formula. Numerical differentiation, forward, backward and central differences formulae for numerical differentiation. Numerical Integration, Newton-Cotes Quadrature formula, Trapezoidal rule, Simpson's  $\frac{1}{3}$  and  $\frac{3}{8}$  rule, Boole's rule, Weddle's rule, Algorithms, Convergence, Bisection method, Point iteration method, False position method, Secant method and Newton's method. Solution of simultaneous algebraic equations, Gauss elimination method, Gauss-Jordan method, Iterative methods: Jacobi method, Gauss-Siedel method. Problems and exercises based on these concepts.

### **PROBABILITY AND STATISTICS**

Sample space, probability axioms, real random variables (discrete and continuous), cumulative distribution function, probability mass/density functions, mathematical expectation, moments, moment generating function, characteristic function, discrete distributions: uniform, binomial, Poisson, continuous distributions: uniform, normal, exponential. Joint cumulative distribution function and its properties, joint probability density functions, marginal and conditional distributions, expectation of function of two random variables, conditional expectations, independent random variables

### **DIFFERENTIAL EQUATIONS**

Formation of a differential equation. Solutions: General, particular, and singular. First order exact equations and integrating factors. Degree and order of a differential equation. Equations of first order and first degree. Equations in which the variable are separable. Homogeneous equations. Linear equations and equations reducible to linear form. First order higher degree equations solvable for  $x$ ,  $y$ ,  $p$ . Clairaut's form and singular solutions. Orthogonal trajectories. Linear differential equations with constant coefficients. Homogeneous linear ordinary differential equations. Linear differential equations of second order. Transformation of the equation by changing — the dependent variable and the independent variable.

#### **For M.Sc. (Physics)**

### **MATHEMATICAL METHODS**

Vector algebra, Vector calculus, Divergence theorem, Green's theorem, Stokes' theorem. Fourier series and its applications, First and second order linear Differential equations.

### **MECHANICS AND OSCILLATIONS**

Newton's laws of motion and applications, Velocity and acceleration in Cartesian, polar and cylindrical coordinate systems, uniformly rotating frame, centrifugal and Coriolis forces, Motion under a central force, Kepler's laws, Gravitational Law and field, Satellite motion, Conservative and non-conservative forces. System of particles, Center of mass, equation of motion of the CM, conservation of linear and angular momentum, conservation of energy, variable mass systems. Elastic and inelastic collisions, Differential equation for simple harmonic oscillator and its general solution, Superposition of two or more simple harmonic oscillators, Damped and forced oscillators, resonance.

### **WAVES AND OPTICS**

Wave equation, travelling and standing waves in one-dimension, Energy density and energy transmission in waves, Group velocity and phase velocity, Reflection and transmission of transverse waves, Sound waves in media, General theory of image formation, thick lens, thin lens and lens combinations, Interference of light, Newton's rings, Michelson's interferometer, Fresnel and Fraunhofer diffractions, Rayleigh criterion and resolving power, Diffraction gratings. Polarization: linear, circular and elliptic polarization, Double refraction and optical rotation, Mechanism of light emission, Fibre optics: Principle, types and applications, Physics and characteristics of Lasers.

### **ELECTRICITY AND MAGNETISM**

Coulomb's law, Gauss's law, Electric field and potential. Electrostatic boundary conditions. Conductors, capacitors, dielectrics, dielectric polarization, volume and

surface charges, electrostatic energy, Biot-Savart law, Ampere's law, Magnetic vector potential, Magnetic fields in matter, Faraday's law of electromagnetic induction, Displacement current, Maxwell's equations and plane electromagnetic waves, Poynting theorem, reflection and refraction at a dielectric interface, transmission and reflection coefficients (normal incidence only), Electromagnetic wave in conductors.

### **STATISTICAL MECHANICS AND THERMODYNAMICS**

Probability, macro- and microstates, Phase space, Elementary ideas of ensembles, Maxwell-Boltzmann, Fermi-Dirac and Bose-Einstein distributions, Laws of thermodynamics. Zeroth law and concept of thermal equilibrium. First law and its consequences. Isothermal and adiabatic processes. Reversible, irreversible and quasi-static processes. Second law and entropy, Carnot cycle. Maxwell's thermodynamic relations and simple applications, Thermodynamic potentials and their applications. Phase transitions and Clausius-Clapeyron equation.

### **MODERN PHYSICS**

Inertial frames and Galilean invariance, Postulates of special relativity, Lorentz transformations, Length contraction, time dilation, Relativistic velocity addition theorem, mass energy equivalence, Doppler's effect, Blackbody radiations, photoelectric effect, Compton effect, Bohr's atomic model, X-rays. Wave-particle duality, Uncertainty principle, the superposition principle, calculation of expectation values, Schrodinger equation and its solution for one, two and three dimensional boxes. Solution of Schrodinger equation for the one dimensional harmonic oscillator, Reflection and transmission at a step potential.

### **ATOMIC AND NUCLEAR PHYSICS**

Vector atom model, ls- and jj- coupling, Spectroscopic terms and notations, spin-orbit interaction, Fine structure, normal and Anomalous Zeeman effect, Paschen-Back effect, Structure of atomic nucleus, mass defect and binding energy, Radioactivity and its applications, Laws of radioactive decay, alpha- beta- and gamma-decays.

### **SOLID STATE PHYSICS, DEVICES AND ELECTRONICS**

Crystal structure, Bravais lattices and basis, Miller indices. X-ray diffraction and Bragg's law, Reciprocal lattice and its applications to simple cubic, bcc and fcc, Lattice vibrations, Superconductivity, Defects in solids, p-n junction diode, rectifiers, Zener diode and its applications, BJT: characteristics in CB, CE, CC modes, Single stage amplifier, two stage R-C coupled amplifiers. Simple Oscillators: Barkhausen condition, sinusoidal oscillators, OPAMP and applications: Inverting and non-inverting amplifier, Logic Gates AND, OR, NOT, NAND, NOR exclusive-OR, Truth tables; combination of gates, de Morgan's theorem.

### **For M.Sc. (Biotechnology)**

**General Biology:** Taxonomy of plants and animals; pro-and eukaryotic organisms; cell organelles and their function; multicellular organization; general physiology; energy transformations; internal transport systems of plants and animals; photosynthesis; respiration; regulation of body fluids and excretory mechanisms; reproductive biology; plant and animal hormones and their action; nervous systems; animal behavior; plant and animal diseases; Heredity; Mendelian genetics and heredity; basics of developmental biology; biology of populations and communities; evolution; basic principles of ecology; genesis and diversity of

organisms; Genetic variation; Conservation; Principles of ecology; Evolution; Techniques in modern biology.

**Life Sciences & Cell Biology:** Cell structure and function; protein synthesis; genetic code; DNA & RNA; carbohydrate, protein and lipid metabolism, clinical biochemistry; Inborn errors of metabolism; Hormones and their function. Enzymes- classification, nomenclature, kinetics etc., Metabolism & regulation of: carbohydrates, proteins, fats & nucleic acids, Metabolic disorders.

**Microbiology:** Classification and taxonomy of microorganisms; Growth and physiology, nutrient requirement for growth; Laboratory cultivation of microbes, Methods of microbial enumeration; Microbial metabolism, photosynthesis, fermentation, aerobic & anaerobic respiration, Microbial genetics, Microbes in industry, Endotoxins, viruses (enveloped and non-enveloped); pathogenic microorganisms and disease; applied microbiology; viruses and fungi; microbial genetics; cell theory; cell architecture; cell division.

**Biochemistry:** Buffers; trace elements in biological systems; enzymes and proteins; vitamins; biological oxidations, photosynthesis; carbohydrates and lipids and their metabolism; digestion and absorption; detoxifying mechanisms; nucleic acids; nucleic acid metabolism; nature of gene and its function; genetic code; synthesis of nucleic acids and proteins; regulation of gene expression; operons. Structure of biomolecules; intra and intermolecular forces; thermodynamics and kinetics of biological systems; enzyme mechanisms and kinetics; principles of X-ray diffraction; IR- and UV- spectroscopy; analytical and biochemical techniques.

**Immunology:** Cells of the immune system, lymphoid tissues, complement, antibodies, hybridoma technology, applications of monoclonal antibodies, antigen recognition, processing and presentation, cell mediated immunity, cytokines, hypersensitivity, vaccines & vaccine technology, auto-immunity, transplantation, immune responses to various infections, Immunotechnology, B-cells and T-cells, Antibody structure, function and diversity, T-cell receptors, Antigen-antibody Reaction, Complement system and Cytokines, Hyper-Sensitivity, MHC and HLA, Hybridoma, Immunodeficiency diseases.

**Basic Biotechnology:** Tissue culture; Application of enzymes; Antigen-antibody interaction; Antibody production; Diagnostic aids. **Molecular Biology:** DNA; RNA; Replication; Transcription; Translation; Proteins; Lipids and Membranes; Operon model; Gene transfer.

**Cell Biology:** Cell cycle; Cytoskeletal elements; Mitochondria; Endoplasmic reticulum; Chloroplast; Golgi apparatus; Signaling. **Microbiology:** Isolation; Cultivation; Structural features of virus; Bacteria; Fungi; Protozoa; Pathogenic micro-organisms.

**Molecular biology & recombinant DNA technology:** Properties of nucleic acids, chromosomes, DNA replication, damage and repair, gene manipulation, cloning vectors, gene libraries, screening of libraries, gene cloning, applications of recombinant DNA technology, PCR, RFLP, Western, Northern and Southern blotting, microarray technology, DNA fingerprinting and recombinant DNA technology; prokaryotic and eukaryotic expression systems; Vectors: plasmids, phages and cosmids. Gene mutation: Types of mutation; UV and chemical mutagens; Selection of mutants; Ames test for mutagenesis; Bacterial, yeast, cyanobacteria, fungi genetic system: transformation, conjugation, transduction,

recombination, transposons genome shuffling, electroporation; DNA repair and chromosomal aberrations, synthetic biology for production of biochemicals and biotech products.

**Ph.D programme:**

**As per UGC Regulations**

**APPENDIX-2**

**SMVDUEE – 2019 will be conducted in the following cities:**

1. VIJAYAWADA
2. HYDERABAD
3. PATNA,
4. CHANDIGARH
5. JAMMU
6. SMVDU, KATRA
7. JAIPUR
8. KOTA
9. CHENNAI
10. DEHRADUN
11. VARANASI
12. NEW DELHI

*The List of Centres is tentative and may change depending upon response of applicants, as may be decided by the university.*

### **APPENDIX-3**

#### **LIST OF QUALIFYING EXAMINATIONS**

##### **For B.Tech. / B.Arch. / Integrated M.Sc.(Economics)**

1. The final examination of the 10+2 system, conducted by any recognized central/ state Board, such as Central Board of Secondary Education, New Delhi; Council for the Indian School Certificate Examinations, New Delhi; etc.
2. Intermediate or two-year Pre-University examination conducted by a recognized Board/ University.
3. Final examination of the two-year course of the Joint Services Wing of the National Defence Academy.
4. Senior Secondary School Examination conducted by the National Institute of Open Schooling with a minimum of five subjects.
5. Any Public School/ Board/ University examination in India or in any foreign country recognized as equivalent to the 10+2 system by the Association of Indian Universities (AIU).

##### **For other PG Programs**

A valid degree issued by a UGC recognized university and as recognised by the Association of Indian Universities in consonance with the eligibility criteria defined for each degree program in the **SMVDU Admission Brochure 2019-20** hosted on university website [www.smvdu.ac.in](http://www.smvdu.ac.in)

#### **APPENDIX-4**

#### **BOARDS/UNIVERSITIES CONDUCTING CLASS 12TH/EQUIVALENT EXAMINATION**

1. ANDHRA PRADESH BOARD OF INTERMEDIATE EDUCATION
2. ASSAM HIGHER SECONDARY EDUCATION COUNCIL
3. BIHAR INTERMEDIATE EDUCATION COUNCIL (BIHAR SCHOOL EXAMINATION BOARD)
4. CENTRAL BOARD OF SECONDARY EDUCATION
5. CHATTISGARH MADHYAMIK SHIKSHA MANDAL (CHATTISGARH BOARD OF SECONDARY EDUCATION)
6. COUNCIL FOR THE INDIAN SCHOOL CERTIFICATE EXAMINATIONS
7. GOA BOARD OF SECONDARY AND HIGHER SECONDARY EDUCATION
8. GUJARAT SECONDARY EDUCATION BOARD
9. HARYANA BOARD OF EDUCATION
10. H P BOARD OF SCHOOL EDUCATION
11. J AND K STATE BOARD OF SCHOOL EDUCATION
12. JHARKHAND ACADEMIC COUNCIL
13. KARNATAKA BOARD OF PRE UNIVERSITY EDUCATION
14. KERALA BOARD OF PUBLIC EXAMINATIONS
15. MADHYA PRADESH BOARD OF SECONDARY EDUCATION
16. MAHARASTRA STATE BOARD OF SECONDARY AND HIGHER SECONDARY EDUCATION
17. MANIPUR COUNCIL OF HIGHER SECONDARY EDUCATION
18. MEGHALAYA BOARD OF SECONDARY EDUCATION
19. MIZORAM BOARD OF SCHOOL EDUCATION
20. NAGALAND BOARD OF SCHOOL EDUCATION
21. ODISHA COUNCIL OF HIGHER SECONDARY EDUCATION
22. PUNJAB SCHOOL EDUCATION BOARD
23. RAJASTHAN BOARD OF SECONDARY EDUCATION
24. TAMIL NADU BOARD OF HIGHER SECONDARY EDUCATION
25. TRIPURA BOARD OF SECONDARY EDUCATION
26. U P BOARD OF HIGH SCHOOL AND INTERMEDIATE EDUCATION
27. UTTARANCHAL SHIKSHA EVAM PARIKSHA PARISHAD
28. WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION
29. NATIONAL INSTITUTE OF OPEN SCHOOLING
30. JAMIA MILIA ISLAMIA, NEW DELHI
31. ALIGARH MUSLIM UNIVERSITY, ALIGARH
32. DAYALBAGH EDUCATIONAL INSTITUTE, AGRA
33. BANASTHALI VIDYAPEETH, RAJASTHAN
34. PERIYAR MANIAMMAI INSTITUTE OF SCIENCE AND TECHNOLOGY, VALLAM THANJAVUR, TAMIL NADU
35. TECHNO INDIA UNIVERSITY, KOLKATA, WEST BENGAL (RESIDENTIAL)
36. VISHWA BHARTI UNIVERSITY, SHANTINIKETAN, BIRBHOOM, WB
37. RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES, HYDERABAD
38. HARYANA OPEN SCHOOL, BHIWANI
39. RAJASTHAN STATE OPEN SCHOOL, JAIPUR
40. M P STATE OPEN SCHOOL, BHOPAL
41. ANDHRA PRADESH OPEN SCHOOL SOCIETY
42. BIHAR BOARD OF OPEN SCHOOLING EXAMINATION



43. CHHATTISGARH STATE OPEN SCHOOL
44. CBSE i (CBSE international)
45. TELANGANA BOARD OF INTERMEDIATE EDUCATION
46. TELANGANA PRADESH OPEN SCHOOL SOCIETY
47. WEST BENGAL COUNCIL OF RABINDRA OPEN SCHOOLING
48. ASSAM STATE OPEN SCHOOL
49. DIRECTORATE GENERAL OF MILITARY TRAINING (RIMC)
50. BHUTAN HIGHER SECONDARY EDUCATION CERTIFICATE
51. 'A' LEVEL OF GENERAL CERTIFICATE OF EDUCATION, CAMBRIDGE UNIVERSITY (IGSE)
52. INTERNATIONAL BACCALAUREATE
53. EDEXCEL, LONDON (UK)
54. HIGHER SECONDARY EDUCATION BOARD, NEPAL
55. TECHNICAL/VOCATIONAL BOARD
56. OTHER BOARD

## APPENDIX-5

### INSTRUCTIONS FOR USE OF TEST BOOKLET AND ANSWER SHEET

1. The candidates will find the Answer Sheet placed inside the sealed Test Booklet. The seal will be broken/ opened by the candidates on the announcement by the invigilator and the Answer Sheet shall be taken out. Do not open/break the seal before the announcement. **The candidates should verify the serial number and series of the Test Booklet with the serial number and series of OMR sheet/Answer Sheet. In case of any variation, the Test Booklet and OMR sheet/Answer Sheet should be immediately returned to the invigilator for the replacement with another set of same series available in the examination hall/centre.**
2. Side –2 of each Answer Sheet may have a pre-printed Test Booklet Code like A, B, C or D. The candidates are required to check that the Test Booklet Code pre-printed on Side-2 of the Answer Sheet is the same as printed on the Test Booklet.
3. **The Answer Sheet used will be of special type which will be scanned on Optical Scanner or Ordinary type. There will be two sides of the Answer Sheet.**

**Side 1** This side of the Answer Sheet contains the following columns which are to be filled in neatly and accurately by the candidate with **Blue/Black ball point pen only. Use of pencil is strictly prohibited.**

- I. Roll Number
- II. Name of the candidate
- III. Father's Name
- IV. Centre Number
- V. Name of the Examination Centre
- VI. Signature of the candidate

**Side 2** This side of the Answer Sheet contains the following columns which are also to be filled in by the candidate **with Blue/Black Ball Point Pen only. Use of pencil is strictly prohibited.**

- I. Roll Number
- II. Centre Number
- III. Test Booklet Number

WRITING OF PARTICULARS AND RESPONSES ON SIDE –2 WITH BLUE/BLACK BALL POINT PEN ONLY WILL BE FILLED UP AS FOLLOWS:

### IMPORTANT INSTRUCTIONS FOR MARKING THE RESPONSES IN PEN AND PAPER BASED EXAMINATION

- (i) Out of four alternatives for each question, only one circle for the correct answer is to be darkened completely with blue/black Ball Point Pen only. For example Question No. 008 in the Test Booklet reads as follows:

Qutub Minar is situated in

- (1) Delhi
- (2) Mumbai
- (3) Agra
- (4) Bengaluru

The correct response to this question is (1) Delhi. The candidate will locate Question No. 008 in the Answer Sheet and darken the circle (1) as shown below:

008                       

- (ii) Use Blue or Black Ball Point Pen to completely darken the appropriate circle, i.e. one circle for each entry. The answer once marked is not liable to be changed. Use of pencil is strictly prohibited. If any candidate uses the pencil for darkening the answer sheet, his/her answer sheet will be rejected.
- (iii) A light or faintly darkened circle is a wrong method of marking and liable to be rejected by the Optical Scanner. So, the circle should be properly darkened.
- (iv) The Correct way of marking is shown below.
- (v) **Correct Method:** If the candidate does not want to attempt any question he/she should not darken the circle given against that question.
- (vi) Please do not fold the Answer Sheet and do not make any stray marks on it.
- (vii) **ROUGH WORK:** The candidate will not do any rough work on the Answer Sheet. All rough work is to be done in the Test Booklet itself.
- (viii) **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/correction fluid on the Answer Sheet is not permissible as the Answer Sheets are machine gradable and it may lead to wrong evaluation. If more than one circle is darkened or if the response is marked in any other manner except the 'Correct Method' shown above, it shall be treated as wrong way of marking and  $\frac{1}{4}$  (one fourth) marks i.e. **one mark** will be deducted for each question.
- (ix) Prior to handing over the Answer Sheet soon after the examination is over, the candidate must sign the attendance sheet as a proof thereof.

### **WARNING**

1. PERSONS REMOVING PAGES FROM THE TEST-BOOKLET DURING EXAMINATION, IMPERSONATING OR TRYING TO APPEAR IN THE SEAT ALLOCATION PROCESS THROUGH FORGED MEANS WILL BE DEALT WITH AS PER LAW.
2. CANVASSING DIRECTLY OR INDIRECTLY FOR THE ALLOTMENT OF SEATS OR INFLUENCING STAFF BY UNFAIR MEANS WOULD LEAD TO SERIOUS CONSEQUENCES INCLUDING DISQUALIFICATION OF THE CANDIDATES.

**APPENDIX-6**

**TIME SCHEDULE FOR SMVDUEE - 2019**

**(A) TIME SCHEDULE**

**DATE OF EXAMINATION 11<sup>th</sup> May 2019 (Saturday) – For Exams at 2:00 p.m.**

- a) Entry in the Examination Centre 12.00 pm to 1.30 pm
- b) Entry in the Examination Hall 1.00 pm to 1.30 pm
- c) Distribution of Test Booklet 1.45 pm
- d) Seal of the Test Booklet to be broken/opened to take out the Answer Sheet 1.50 pm
- e) Last entry in the Examination Hall 1.30 pm
- f) Test commences 2.00 pm
- g) Test concludes 4.00 pm

**DATE OF EXAMINATION 11<sup>th</sup> May 2019 (Saturday) – For Exams at 10:00 a.m.**

- a) Entry in the Examination Centre 9.00 pm to 10.00 pm
- b) Entry in the Examination Hall 9.30 am to 10.00 am
- c) Distribution of Test Booklet 9.45 am
- d) Seal of the Test Booklet to be broken/opened to take out the Answer Sheet 9.50 am
- e) Last entry in the Examination Hall 10.00 pm
- f) Test commences 10.00 am
- g) Test concludes 12.00 pm

**APPENDIX-7**

**"Form-I**

**APPLICATION FOR OBTAINING DISABILITY CERTIFICATE BY PERSONS WITH DISABILITIES**

1. Name: (Surname) \_\_\_\_\_ (First name) \_\_\_\_\_(Middle name) \_\_\_\_\_.

2. Father's name: \_\_\_\_\_ Mother's name: \_\_\_\_\_

3. Date of Birth: (date) \_\_\_\_\_ / (month)\_\_\_\_\_ / (year)\_\_\_\_\_

4. Age at the time of application: \_\_\_\_\_ years

5. Sex: \_\_\_\_\_ Male/Female

6. Address:

(a) Permanent address (b) Current Address (i.e. for communication)

\_\_\_\_\_  
\_\_\_\_\_

(c) Period since when residing at current address

\_\_\_\_\_

7. Educational Status (Pl. tick as applicable)

I. Post Graduate

II. Graduate

III. Diploma

IV. Higher Secondary

V. High School

VI. Middle

VII. Primary

VIII. Illiterate

8. Occupation \_\_\_\_\_

9. Identification marks (i) \_\_\_\_\_ (ii) \_\_\_\_\_

10. Nature of disability: locomotor/hearing/visual/mental/others

11. Period since when disabled: From Birth/Since year \_\_\_\_\_

12. (i) Did you ever apply for issue of a disability certificate in the past \_\_\_\_\_ YES/NO

(ii) If yes, details:

a. Authority to whom and district in which applied \_\_\_\_\_

b. Result of application \_\_\_\_\_

13. Have you ever been issued a disability certificate in the past? If yes, please enclose a true copy.

Declaration: I hereby declare that all particulars stated above are true to the best of my knowledge and belief, and no material information has been concealed or misstated. I further, state that if any inaccuracy is detected in the application, I shall be liable to forfeiture of any benefits derived and other action as per law.

\_\_\_\_\_

(Signature or left thumb impression of person with disability, or of his/her legal guardian in case of persons with mental retardation, autism, cerebral palsy and multiple disabilities)

Date:

Place:

Encl:

1. Proof of residence (Please tick as applicable)

a. ration card,

b. voter identity card,

c. driving license,

d. bank passbook

e. PAN card,

f. passport,

g. telephone, electricity, water and any other utility bill indicating the address of the applicant,

h. a certificate of residence issued by a Panchayat, municipality, cantonment board, any gazetted officer, or the concerned Patwari or Head Master of a Govt. school,

i. in case of an inmate of a residential institution for persons with disabilities, destitute, mentally ill, etc., a certificate of residence from the head of such institution.

2. Two recent passport size photographs

(For office use only)

Date: Signature of issuing authority

Place: Stamp

**DISABILITY CERTIFICATE**

**(In cases of amputation or complete permanent paralysis of limbs and in cases of blindness)**

**(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)**

Certificate No. Date:

This is to certify that I have carefully examined Shri/Smt./Kum. \_\_\_\_\_  
\_\_\_\_\_ son/wife/daughter of Shri \_\_\_\_\_

Date of Birth (DD / MM / YY) \_\_\_\_ \_\_\_\_ \_\_\_\_ Age \_\_\_\_\_ years, male/female Registration  
No. \_\_\_\_\_ permanent resident of House No. \_\_\_\_\_ Ward/Village/  
Street \_\_\_\_\_ Post \_\_\_\_\_ Office \_\_\_\_\_

District \_\_\_\_\_ State \_\_\_\_\_, whose photograph is affixed above, and am satisfied that:

(A) he/she is a case of:

- locomotor disability
- blindness

(Please tick as applicable)

(B) the diagnosis in his/her case is \_\_\_\_\_

(A) He/ She has \_\_\_\_\_ % (in figure) \_\_\_\_\_ percent (in words)  
permanent physical impairment/blindness in relation to his/her \_\_\_\_\_ (part of body) as per  
guidelines (to be specified).

2. The applicant has submitted the following document as proof of residence:-

**Nature of Document Date of Issue Details of authority issuing certificate**

(Signature and Seal of Authorised Signatory of notified Medical Authority)

Signature/thumb impression of the person in whose favour disability certificate is issued.

Recent PP size attested photograph (showing face only) of the person with disability

**FORM-III**

**DISABILITY CERTIFICATE**

**(IN CASE OF MULTIPLE DISABILITIES)**

**(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)**

Certificate No. \_\_\_\_\_

Date: \_\_\_\_\_

This is to certify that we have carefully examined Shri/Smt./Kum. \_\_\_\_\_  
\_\_\_\_\_/son/wife/ daughter of Shri \_\_\_\_\_

Date of Birth (DD / MM / YY) \_\_\_\_ \_\_\_\_ \_\_\_\_ Age \_\_\_\_\_ years,  
male/female \_\_\_\_\_ Registration No. \_\_\_\_\_ Permanent house  
No. \_\_\_\_\_ Ward/Village/Street \_\_\_\_\_ Post  
Office \_\_\_\_\_ District \_\_\_\_\_ State \_\_\_\_\_, whose  
photograph is affixed above, and are satisfied that:

(A) He/she is a Case of **Multiple Disability**. His/her extent of permanent physical impairment/disability has been evaluated as per guidelines (to be specified) for the disabilities ticked below, and shown against the relevant disability in the table below:

<b>S. No.</b>	<b>Disability Affected Part of Body</b>	<b>Diagnosis Permanent physical impairment/mental disability (in %)</b>

1 Locomotor disability @

2 Low vision #

3 Blindness **Both Eyes**

4 Hearing impairment £

5 Mental retardation X

6 Mental-illness X

Recent PP size attested photograph (showing face only) of the person with disability

(B) In the light of the above, his /her over all permanent physical impairment as per guidelines (to be specified), is as follows:-

In figures: - \_\_\_\_\_percent

In words:- \_\_\_\_\_percent

2. This condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

3. Reassessment of disability is:

(i) not necessary,

**Or**



(ii) is recommended/ after \_\_\_\_\_years\_\_\_\_\_months, and therefore this certificate shall be valid till (DD / MM / YY) \_\_\_\_\_

@ - e.g. **Left/Right/both arms/legs**

# - e.g. **Single eye/both eyes**

£ - e.g. **Left/Right/both ears**

4. The applicant has submitted the following document as proof of residence:-

**Nature of Document Date of Issue Details of authority issuing certificate**

5. Signature and seal of the Medical Authority.

Name and seal of Member Name and seal of Member Name and seal of the Chairperson

Signature/thumb impression of the person in whose favour disability certificate is issued.

**FORM-IV**

**DISABILITY CERTIFICATE**

**(IN CASES OTHER THAN THOSE MENTIONED IN FORMS II AND III)**

**(NAME AND ADDRESS OF THE MEDICAL AUTHORITY ISSUING THE CERTIFICATE)**

Certificate No. \_\_\_\_\_

Date: \_\_\_\_\_

This is to certify that I have carefully examined Shri/Smt./Kum. \_\_\_\_\_

son/ wife/daughter of Shri \_\_\_\_\_

Date of Birth (DD / MM / YY) \_\_\_\_ \_\_\_\_ \_\_\_\_ Age \_\_\_\_\_ years, male/female \_\_\_\_\_

Registration No. \_\_\_\_\_ permanent resident of House No. \_\_\_\_\_

Ward/Village \_\_\_\_\_ / Street \_\_\_\_\_ Post

Office \_\_\_\_\_

District \_\_\_\_\_ State \_\_\_\_\_, whose photograph is affixed above and am satisfied that he/she is a case of \_\_\_\_\_ disability. His/her extent of percentage physical impairment/disability has been evaluated as per guidelines (to be specified) and is shown against the relevant disability in the table below:-

**S. No. Disability Affected Part of Body Diagnosis Permanent physical impairment/mental disability (in %)**

1 Locomotor disability @

2 Low vision #

3 Blindness **Both Eyes**

4 Hearing impairment **£**

5 Mental retardation **X**

6 Mental-illness **X**

(Please strike out the disabilities which are not applicable.)

2. The above condition is progressive/ non-progressive/ likely to improve/ not likely to improve.

3. Reassessment of disability is :

(i) not necessary,

**Or**

(ii) is recommended/ after \_\_\_\_\_ years \_\_\_\_\_ months, and therefore this certificate shall be valid till (DD / MM / YY) \_\_\_\_\_

Recent PP size attested photograph (showing face only) of the person with disability

@ - e.g. **Left/Right/both arms/legs**

# - e.g. **Single eye/both eyes**

£ - e.g. **Left/Right/both ears**

4. The applicant has submitted the following document as proof of residence:-

**Nature of Document Date of Issue Details of authority issuing certificate**

(Authorised Signatory of notified Medical Authority)

(Name and Seal)

Countersigned

{ Countersignature and seal of the CMO/Medical Superintendent/Head of Government Hospital, in case the certificate is issued by a medical authority who is not a government servant (with seal) }

Note: In case this certificate is issued by a medical authority who is not a government servant, it shall be valid only if countersigned by the Chief Medical Officer of the District."

Note: The principal rules were published in the Gazette of India vide notification number S.O. 908(E), dated the 31<sup>st</sup> December, 1996.

Signature/thumb impression of the person in whose favour disability certificate is issued.

**FORM-V**

**INTIMATION OF REJECTION OF APPLICATION FOR DISABILITY CERTIFICATE  
(SEE RULE 4)**

No. \_\_\_\_\_ Dated:

To,

(Name and address of applicant for Disability Certificate)

Sub.: Rejection of Application for Disability Certificate

Sir / Madam,

Please refer to your application dated \_\_\_\_\_ for issue of a Disability Certificate for the following disability: \_\_\_\_\_.

2. Pursuant to the above application, you have been examined by the undersigned/ Medical Board on \_\_\_\_\_, and I regret to inform that, for the reasons mentioned below, it is not possible to issue a disability certificate in your favour:

(i)

(ii)

(iii)

3. In case you are aggrieved by the rejection of your application, you may represent to \_\_\_\_\_, requesting for review of this decision.

Yours faithfully,

(Authorised Signatory of the notified Medical Authority)

(Name and Seal)

**APPENDIX - 8**

**IMPORTANT INFORMATION AT A GLANCE**

The fresh dates for conduct of SMVDUEE 2019 are as given below:

<b>Sr.</b>	<b>SMVDUEE 2019 for Admission to</b>	<b>Last Date for Submission of Application Forms</b>	<b>Date of Conduct of SMVDUEE 2019</b>
1	B.Tech. MBA 5 Year Integrated M.Sc.(Economics)	6 <sup>th</sup> May 2019	11 <sup>th</sup> May 2019
2	M.Sc. (Physics), M.Sc.(Mathematics), M.Sc.(Biotechnology)  M.A. (English), M.A(Philosophy)  M.Tech.	10 <sup>th</sup> June 2019	15 <sup>th</sup> June 2019
3	Ph.D.	5 <sup>th</sup> July 2019	10 <sup>th</sup> July 2019

***DISCLAIMER: Please note that all rules and guidelines, and features specified in this brochure are only indicative in nature. The student is advised to consult the SMVDUEE 2019 Co-ordinator/ University Authorities for details in this regard. Any update on this Brochure will be put on University website.***

**Sd/- Registrar**