



# BRILLIANT INSTITUTE OF MATHEMATICS

... the bridge to your better future

*Our Motto - To strive towards excellence*

**VAO Exam - 21.09.2025**

## ANSWER KEY - Paper 1

### Test Booklet Series "D"

| Q. No. | Answer Choice | The Answer |
|--------|---------------|------------|
|--------|---------------|------------|

#### *Numerical Aptitude and Reasoning*

|    |   |  |
|----|---|--|
| 1  | A | 405  |
| 2  | C | $K + J + I$  |
| 3  | A | 2  |
| 4  | A | 77   |
| 5  | B | 29   |
| 6  | A | 15.5 Sq. Units   |
| 7  | B | 10   |
| 8  | D | In other options, the arrows point to vertices and are in odd number |
| 9  | B | 4  |
| 10 | A | 1800 Seconds   |
| 11 | D | 266  |
| 12 | A | 15300  |
| 13 | A | $(-\infty, 1)$   |
| 14 | B | $5^4$  |
| 15 | B | <input checked="" type="checkbox"/>                                  |
| 16 | B | 11   |
| 17 | C | 30000  |
| 18 | A | 1  |
| 19 | A | $2x \tan^{-1} x$   |
| 20 | D | 1, 3 and 4   |

#### *Polity and General studies*

|    |   |  |
|----|---|--|
| 21 | B | Official Language - All states / U.T.s are correctly matched |
| 22 | A | Acting President - Justice M. Hidayat-ul-lah                 |
| 23 | C | 2, 3 & 4 are correct. Article 11 pertains to Citizenship     |



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| <div>  <h3>Words of JOY &amp; GRATITUDE of BIM's successful DT candidates</h3> <div> <div>  <p><b>KABILAN. P</b><br/>Rank 3</p> <p>It all began in 2022. I first joined BIM my journey began there. My inspirations were Mr Nedoundjejjane sir, Sridharan sir, Ms. Abi and Siva sir they made me so interested in competitive exams and under their guidance I became LDC and now I got selected as DT along with my friend Ishwar it's all thanks to my mentors and friends</p> </div> <div>  <p><b>NATARAJAN. C</b><br/>Rank 7</p> <p>BIM as an institute stands out as it prioritises the needs of the student first and makes their job easier. I ll be forever grateful to them for promptly helping me with my preparation and reach here.. at the same time, my heart goes out to all those are who are continuously persevering to reach a better place in life.. I wish them all good luck!</p> </div> <div>  <p><b>SINDUJA. S</b><br/>Rank 12</p> <p>Thank u for being my support system. Your test series helped me to analyse my position and gave confidence. Now, Bim is part of my DT success journey. Once again thank you BIM.</p> </div> <div>  <p><b>ISWAR KUMAR. D</b><br/>OBC Rank 2</p> <p>I deserve it with BIM on my side. Your support in strengthening my base was imperative in my preparation. I should always be thankful for BIM, its Directors and staffs. Like always said, BIM was certainly a placid oasis for me in the middle of nowhere where I found the key to the enigma of a good placement!</p> </div> <div>  <p><b>NIVEDHA. P</b><br/>OBC Rank 3</p> <p>It all started from zero to LDC to UDC to DT is what you made from your teaching, positivity and Love. The motivation u gave on my failures as a teacher, your hope on me as friend, care you gave me as a sister and there for me in my difficulties everything has built me to reach here</p> </div> </div> </div> |               |  |
| 24   | D             | Political Structure of India - Both statements are correct           |
| 25   | A             | Statement 2 is incorrect. Election commission founded on 25th Jan    |
| 26   | D             | Welfare Scheme of Women - Both statements are correct                |
| 27   | A             | Statement 2 is incorrect. AG is Highest Law Officer                  |
| 28   | B             | Incorrect year. 1998 is the correct year of Inderjit gupta committee |
| 29   | D             | CIC - Both statements are correct                                    |
| 30   | C             | CVC - Only statement B is correct                                    |
| 31   | D             | Earth Observation satellite  |
| 32   | B             | Homi J. Bhabha - Indian Famous Nuclear Scientist                     |
| 33   | A             | Altimeter, Ammeter - Both are correct                                |
| 34   | B             | Solar Panel - Use of silver  |
| 35   | A             | X-ray - Both statements are correct                                  |
| 36   | B             | Endocrine gland - Pancreas wrongly matched                           |



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|  <b>ASSISTANT EXAM 2025</b><br><b>FEW OF OUR TOP SCORERS</b><br><i>Congratulations &amp; Gratitude to BIM's Jewels</i><br>  |               |   |
|  <b>Natarajan. C</b><br>89.5 marks  <b>Rahul. R</b><br>89.25 marks  <b>Vidhyeshaa D</b><br>89 marks  <b>Joyce Martina. J</b><br>88 marks  <b>Karbaga S. Varshine</b><br>87 marks  <b>Moultou Vignesh M</b><br>86 marks  <b>Shanmuga Periya</b><br>85.75 marks   |               |   |
|  <b>Suchitra. G</b><br>85.25 marks  <b>Harini. R</b><br>84.75 marks  <b>Mugilan K.R.</b><br>84.5 marks  <b>Preethi. S</b><br>83.75 marks  <b>Sindhuja. D</b><br>83.50 marks  <b>Gayathri. A</b><br>83.50 marks  <b>Nivedhitha Devi. S</b><br>83.25 marks |               |   |
| 37  | B             | Assembler   |
| 38  | B             | AC Circuit - Control current  |
| 39  | A             | Pascal Law- Pressure on liquid is same, when gravity is ignored                           |
| 40  | B             | SONAR - Sound Navigation and Ranging  |
| 41  | B             | Kangto is in Arunachal Pradesh  |
| 42  | A             | Vibrant Village Programme - Both statements are correct                                   |
| 43  | B             | National Income Committee - Headed by PC Mahalanobis                                      |
| 44  | B             | GVA = GDP - Taxes + Subsidies   |
| 45  | C             | ILO - Only Statement 2 is correct   |
| 46  | D             | None of the above. Connects Himachal with U.T. of Ladakh                                  |
| 47  | A             | Reserve Money - Currency in circulation+Bankers deposit with RBI+ other deposits with RBI |
| 48  | B             | Primacy Deficit = Fiscal Deficit - Interest   |
| 49  | D             | Third FYP - Making economy independent with focus on agriculture & wheat production       |



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**Brilliant Institute**  
JUNIOR ENGINEER EEE  
Exam 2025

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|  |  |  |  |  |

**JE – Electricity Exam  
2024**

**State 1st Ranker from  
BIM**

|    |   |   |
|----|---|---|
| 50 | D | Five Star Village Scheme - 100% Postal Rural coverage |
| 51 | C | DGAFMS - Vice Admiral Arti Sarin                      |
| 52 | A | UPI - Namibia   |
| 53 | A | Oscar Award 2024 - Emma Stone                         |
| 54 | B | Total Women MPs - 74                                  |
| 55 | D | Father of Agni Missiles                               |
| 56 | D | PM Gathi Shakthi - Both statements are correct        |
| 57 | A | World Athletics Continental Tour - Japan              |
| 58 | D | Table Tennis Player - Harmeet Desai                   |
| 59 | A | Paralympic Games - 7 Gold, 9 Silver and 13 Bronze     |
| 60 | D | James A. Robinson - Nobel Prize 2024 in Economics     |

### English

|    |   |      |
|----|---|------|
| 61 | A | from |
| 62 | B | for  |



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|---|---------------|---|
| <div style="border: 2px solid blue; padding: 10px; margin-top: 10px; text-align: center;"> <b>LDC 2023</b><br/> <i>State 1st Ranker from BIM</i> </div> |               |   |
| 63  | D             | Of  |
| 64  | C             | 3300 - 1300 BCE   |
| 65  | C             | Their writing system and social structures                            |
| 66  | B             | Stone amphitheaters   |
| 67  | D             | Climate change and drying rivers                                      |
| 68  | C             | Hydraulic and urban planning systems                                  |
| 69  | D             | Informative and respectful  |
| 70  | C             | are asked   |
| 71  | C             | punished  |
| 72  | A             | were not being treated  |
| 73  | C             | citation  |
| 74  | D             | egotism   |
| 75  | C             | A species that has a disproportionately large effect on its ecosystem |
| 76  | D             | environmental degradation   |
| 77  | B             | Wolves changed elk behavior, which reversed ecological damage         |
| 78  | C             | Because ecosystems are complex and effects may not appear immediately |
| 79  | C             | One change causing a cascade of consequences                          |
| 80  | C             | Restoration is unnecessary for struggling ecosystems                  |



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|-----------------|---------------|---|
| <b>Computer</b> |               |   |
| 81              | C             | Formatting Toolbar - To bold , Italicize  |
| 82              | C             | MS Word - Tab Stop  |
| 83              | C             | C Program - Prints formatted output to the screen                               |
| 84              | B             | stdio.h   |
| 85              | C             | Drawing toolbar - to draw and customize shapes, lines and graphics              |
| 86              | C             | PPT Insertion - Scanned photos, videos and sound                                |
| 87              | D             | %d - a placeholder for an integer in decimal format                             |
| 88              | A             | W - Write   |
| 89              | D             | Secondary Storage - Flash Memory  |
| 90              | A             | VLSI - Very large scale intergrated circuit                                     |
| 91              | C             | Running State   |
| 92              | C             | Ctl + H   |
| 93              | C             | <i>Relative Referencing</i>   |
| 94              | D             | Clip Art - To insert pre-made images and illustratuib for use in a presentation |
| 95              | A             | SUMIF = TO sum values based on a condition                                      |
| 96              | D             | openoffice.org.writer   |
| 97              | C             | LCD- Control the transmsion of light  |
| 98              | B             | Forking or Spawning   |
| 99              | C             | Ribbon - Picture  |
| 100             | A             | Main memory is faster but volatile; secondary memory is slower but non volatile |