

FINAL ANSWER KEYS OF JOINT CSIR-UGC TEST FOR JUNIOR RESEARCH FELLOWSHIP (JRF) AND ELIGIBILITY FOR LECTURESHIP (NET) HELD ON 16-06-2019.

SUBJECT: MATHEMATICAL SCIENCES- SET-A (BILINGUAL& ENGLISH)

| Question No. | Key | Question No. | Key | Question No. | Key |
|--------------|---------------|--------------|---------------------------|--------------|------------|
| 1 | 3 | 41 | 4 | 81 | 2, 4 |
| 2 | 3 | 42 | 2 | 82 | 1, 3 |
| 3 | 2 | 43 | 2 | 83 | 2, 3, 4 |
| 4 | 1 | 44 | 3 | 84 | 1, 4 |
| 5 | 4 | 45 | 4 | 85 | 1, 3 |
| 6 | 4 | 46 | 1 | 86 | 1, 2 |
| 7 | 3 | 47 | 4 | 87 | 2, 3 |
| 8 | 1 | 48 | 2 | 88 | 1, 2, 4 |
| 9 | 4 | 49 | 4 | 89 | 1, 3 |
| 10 | 1 | 50 | 3 | 90 | 2, 4 |
| 11 | 3 | 51 | 3 | 91 | 1, 4 |
| 12 | 1 | 52 | 1 | 92 | 1, 3 |
| 13 | 2 | 53 | 4 | 93 | 1, 2, 4 |
| 14 | 1 | 54 | 4 | 94 | 2 |
| 15 | 3 | 55 | 3 | 95 | 1, 3 |
| 16 | 1 | 56 | 4 | 96 | 1 |
| 17 | 3 | 57 | 3 | 97 | 1, 3, 4 |
| 18 | 4 | 58 | 3 | 98 | 2, 3 |
| 19 | 3 | 59 | 1 | 99 | 1 |
| 20 | 2 | 60 | 2 | 100 | 3, 4 |
| 21 | 2 | 61 | 2, 3 | 101 | 3, 4 |
| 22 | 2 | 62 | 2, 4 | 102 | 4 |
| 23 | 4 | 63 | 1, 2, 3, 4 | 103 | 2, 4 |
| 24 | 2 | 64 | 1, 2 | 104 | 3 |
| 25 | 2 | 65 | 2, 3 | 105 | 2, 3 |
| 26 | 1 | 66 | 2, 3 | 106 | 2, 4 |
| 27 | 1 or 2 | 67 | 1, 3 | 107 | 1, 3, 4 |
| 28 | 3 | 68 | 1, 2, 3 | 108 | 1, 2, 3, 4 |
| 29 | 1 | 69 | 3, 4 | 109 | 2, 3 |
| 30 | 4 | 70 | 1, 3 or 1, 2, 3, 4 | 110 | 1, 3, 4 |
| 31 | 3 | 71 | 2, 3 | 111 | 2, 3, 4 |
| 32 | 3 | 72 | 3, 4 | 112 | 1, 2, 3, 4 |
| 33 | 1 | 73 | 1, 3 | 113 | 1, 4 |
| 34 | 1 | 74 | 1 | 114 | 3, 4 |
| 35 | 2 | 75 | 4 | 115 | 1, 2, 3, 4 |
| 36 | 3 | 76 | 1, 2, 4 | 116 | 2, 4 |
| 37 | 3 | 77 | 2, 3 | 117 | 1, 3 |
| 38 | 4 | 78 | 1, 3, 4 | 118 | 1, 2, 4 |
| 39 | 4 | 79 | 1, 4 | 119 | 1 |
| 40 | 3 | 80 | 1, 2, 3, 4 | 120 | 3, 4 |

Change indicated in Bold

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SUBJECT: MATHEMATICAL SCIENCES- SET-B (BILINGUAL & ENGLISH)

| Question No. | Key | Question No. | Key | Question No. | Key |
|--------------|---------------|--------------|-------------------------------|--------------|------------|
| 1 | 1 | 41 | 4 | 81 | 1, 2 |
| 2 | 3 | 42 | 1 | 82 | 2, 3 |
| 3 | 1 | 43 | 4 | 83 | 1, 2, 4 |
| 4 | 2 | 44 | 2 | 84 | 1, 3 |
| 5 | 1 | 45 | 4 | 85 | 2, 4 |
| 6 | 3 | 46 | 2 | 86 | 1, 4 |
| 7 | 3 | 47 | 2 | 87 | 1, 2, 3, 4 |
| 8 | 3 | 48 | 3 | 88 | 2, 4 |
| 9 | 2 | 49 | 3 | 89 | 1, 3 |
| 10 | 1 | 50 | 4 | 90 | 2, 3, 4 |
| 11 | 4 | 51 | 3 | 91 | 1 |
| 12 | 4 | 52 | 3 | 92 | 3, 4 |
| 13 | 3 | 53 | 1 | 93 | 3, 4 |
| 14 | 1 | 54 | 2 | 94 | 4 |
| 15 | 4 | 55 | 4 | 95 | 1, 4 |
| 16 | 3 | 56 | 3 | 96 | 1, 3 |
| 17 | 2 | 57 | 3 | 97 | 1, 2, 4 |
| 18 | 1 | 58 | 1 | 98 | 2 |
| 19 | 3 | 59 | 4 | 99 | 1, 3 |
| 20 | 4 | 60 | 4 | 100 | 1 |
| 21 | 3 | 61 | 1, 3 or 1, 2, 3, 4 | 101 | 1, 3, 4 |
| 22 | 1 | 62 | 2, 3 | 102 | 2, 3 |
| 23 | 4 | 63 | 3, 4 | 103 | 1, 2, 3, 4 |
| 24 | 3 | 64 | 1, 3 | 104 | 2, 4 |
| 25 | 3 | 65 | 1 | 105 | 1, 3 |
| 26 | 2 | 66 | 4 | 106 | 1, 2, 4 |
| 27 | 2 | 67 | 1, 2, 4 | 107 | 1 |
| 28 | 4 | 68 | 2, 3 | 108 | 3, 4 |
| 29 | 2 | 69 | 1, 3, 4 | 109 | 2, 4 |
| 30 | 2 | 70 | 2, 3 | 110 | 3 |
| 31 | 1 | 71 | 2, 4 | 111 | 2, 3 |
| 32 | 1 or 2 | 72 | 1, 2, 3, 4 | 112 | 2, 4 |
| 33 | 3 | 73 | 1, 2 | 113 | 1, 3, 4 |
| 34 | 4 | 74 | 2, 3 | 114 | 1, 2, 3, 4 |
| 35 | 4 | 75 | 2, 3 | 115 | 2, 3 |
| 36 | 3 | 76 | 1, 3 | 116 | 1, 3, 4 |
| 37 | 1 | 77 | 1, 2, 3 | 117 | 2, 3, 4 |
| 38 | 1 | 78 | 3, 4 | 118 | 1, 2, 3, 4 |
| 39 | 2 | 79 | 1, 4 | 119 | 1, 4 |
| 40 | 3 | 80 | 1, 3 | 120 | 3, 4 |

Change indicated in Bold

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SUBJECT: MATHEMATICAL SCIENCES – SET-C (BILINGUAL & ENGLISH)

| Question No. | Key | Question No. | Key | Question No. | Key |
|--------------|---------------|--------------|-------------------------------|--------------|------------|
| 1 | 1 | 41 | 2 | 81 | 2, 3, 4 |
| 2 | 2 | 42 | 3 | 82 | 1, 4 |
| 3 | 1 | 43 | 4 | 83 | 1, 3 |
| 4 | 3 | 44 | 1 | 84 | 1, 2 |
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| 6 | 3 | 46 | 2 | 86 | 1, 2, 4 |
| 7 | 2 | 47 | 4 | 87 | 1, 3 |
| 8 | 1 | 48 | 2 | 88 | 2, 4 |
| 9 | 4 | 49 | 3 | 89 | 1, 4 |
| 10 | 4 | 50 | 3 | 90 | 1, 2, 3, 4 |
| 11 | 3 | 51 | 1 | 91 | 2 |
| 12 | 1 | 52 | 4 | 92 | 1, 3 |
| 13 | 4 | 53 | 4 | 93 | 1 |
| 14 | 3 | 54 | 3 | 94 | 1, 3, 4 |
| 15 | 2 | 55 | 4 | 95 | 2, 3 |
| 16 | 1 | 56 | 3 | 96 | 1 |
| 17 | 3 | 57 | 3 | 97 | 3, 4 |
| 18 | 1 | 58 | 1 | 98 | 3, 4 |
| 19 | 4 | 59 | 2 | 99 | 4 |
| 20 | 3 | 60 | 4 | 100 | 1, 4 |
| 21 | 2 | 61 | 1, 2 | 101 | 1, 3 |
| 22 | 1 | 62 | 2, 3 | 102 | 1, 2, 4 |
| 23 | 1 or 2 | 63 | 2, 3 | 103 | 1, 3, 4 |
| 24 | 3 | 64 | 1, 3 | 104 | 2, 3, 4 |
| 25 | 1 | 65 | 1, 2, 3 | 105 | 1, 2, 3, 4 |
| 26 | 4 | 66 | 3, 4 | 106 | 1, 4 |
| 27 | 3 | 67 | 1, 3 or 1, 2, 3, 4 | 107 | 3, 4 |
| 28 | 3 | 68 | 2, 3 | 108 | 1, 2, 3, 4 |
| 29 | 2 | 69 | 3, 4 | 109 | 2, 4 |
| 30 | 2 | 70 | 1, 3 | 110 | 1, 3 |
| 31 | 4 | 71 | 1 | 111 | 1, 2, 4 |
| 32 | 2 | 72 | 4 | 112 | 1 |
| 33 | 2 | 73 | 1, 2, 4 | 113 | 3, 4 |
| 34 | 3 | 74 | 2, 3 | 114 | 2, 4 |
| 35 | 3 | 75 | 1, 3, 4 | 115 | 3 |
| 36 | 4 | 76 | 2, 3 | 116 | 2, 3 |
| 37 | 4 | 77 | 2, 4 | 117 | 2, 4 |
| 38 | 3 | 78 | 1, 2, 3, 4 | 118 | 1, 3, 4 |
| 39 | 1 | 79 | 2, 4 | 119 | 1, 2, 3, 4 |
| 40 | 1 | 80 | 1, 3 | 120 | 2, 3 |

Change indicated in Bold