

**GATE-2016****Answer Keys for ME - Mechanical Engineering SET-1**

| Q. No | Type | Section | Key           | Marks |
|-------|------|---------|---------------|-------|
| 1     | MCQ  | GA      | A             | 1     |
| 2     | MCQ  | GA      | B             | 1     |
| 3     | MCQ  | GA      | A             | 1     |
| 4     | MCQ  | GA      | A             | 1     |
| 5     | MCQ  | GA      | C             | 1     |
| 6     | MCQ  | GA      | C             | 2     |
| 7     | MCQ  | GA      | B             | 2     |
| 8     | MCQ  | GA      | D             | 2     |
| 9     | MCQ  | GA      | C             | 2     |
| 10    | MCQ  | GA      | C             | 2     |
| 1     | MCQ  | ME-1    | D             | 1     |
| 2     | MCQ  | ME-1    | B             | 1     |
| 3     | MCQ  | ME-1    | A             | 1     |
| 4     | MCQ  | ME-1    | A             | 1     |
| 5     | NAT  | ME-1    | 1.53 : 1.59   | 1     |
| 6     | NAT  | ME-1    | 55 : 60       | 1     |
| 7     | MCQ  | ME-1    | C             | 1     |
| 8     | MCQ  | ME-1    | A             | 1     |
| 9     | MCQ  | ME-1    | D             | 1     |
| 10    | NAT  | ME-1    | 199 : 201     | 1     |
| 11    | NAT  | ME-1    | 19.9 : 20.1   | 1     |
| 12    | MCQ  | ME-1    | B             | 1     |
| 13    | MCQ  | ME-1    | C             | 1     |
| 14    | MCQ  | ME-1    | D             | 1     |
| 15    | MCQ  | ME-1    | A             | 1     |
| 16    | MCQ  | ME-1    | B             | 1     |
| 17    | NAT  | ME-1    | 13.7 : 14.9   | 1     |
| 18    | NAT  | ME-1    | 0.24 : 0.26   | 1     |
| 19    | MCQ  | ME-1    | A             | 1     |
| 20    | MCQ  | ME-1    | B             | 1     |
| 21    | MCQ  | ME-1    | D             | 1     |
| 22    | MCQ  | ME-1    | C             | 1     |
| 23    | MCQ  | ME-1    | A             | 1     |
| 24    | NAT  | ME-1    | 0.49 : 0.51   | 1     |
| 25    | MCQ  | ME-1    | A             | 1     |
| 26    | NAT  | ME-1    | -5.1 : -4.9   | 2     |
| 27    | NAT  | ME-1    | -1.05 : -0.95 | 2     |
| 28    | MCQ  | ME-1    | A             | 2     |
| 29    | NAT  | ME-1    | -6 : -6       | 2     |
| 30    | NAT  | ME-1    | 4.95 : 5.05   | 2     |
| 31    | MCQ  | ME-1    | B             | 2     |
| 32    | NAT  | ME-1    | 3.9 : 4.1     | 2     |
| 33    | NAT  | ME-1    | 1873 : 1879   | 2     |
| 34    | NAT  | ME-1    | -1 : 1        | 2     |
| 35    | NAT  | ME-1    | 0.9 : 1.1     | 2     |
| 36    | MCQ  | ME-1    | C             | 2     |

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| Q. No | Type | Section | Key                         | Marks |
|-------|------|---------|-----------------------------|-------|
| 37    | MCQ  | ME-1    | A                           | 2     |
| 38    | MCQ  | ME-1    | C                           | 2     |
| 39    | NAT  | ME-1    | -2.21 : -2.19 ; 2.19 : 2.21 | 2     |
| 40    | NAT  | ME-1    | 22.0 : 22.5                 | 2     |
| 41    | NAT  | ME-1    | 0.32 : 0.34                 | 2     |
| 42    | NAT  | ME-1    | 42.0 : 42.5                 | 2     |
| 43    | NAT  | ME-1    | 24528 : 24532               | 2     |
| 44    | NAT  | ME-1    | 6.00 : 6.25                 | 2     |
| 45    | NAT  | ME-1    | 2400 : 2500                 | 2     |
| 46    | NAT  | ME-1    | 14.75 : 15.25               | 2     |
| 47    | NAT  | ME-1    | 25.8 : 26.1                 | 2     |
| 48    | NAT  | ME-1    | 0.849 : 0.851               | 2     |
| 49    | NAT  | ME-1    | 49.9 : 50.1                 | 2     |
| 50    | MCQ  | ME-1    | B                           | 2     |
| 51    | MCQ  | ME-1    | A                           | 2     |
| 52    | NAT  | ME-1    | 1.90 : 1.94                 | 2     |
| 53    | MCQ  | ME-1    | A                           | 2     |
| 54    | NAT  | ME-1    | 1.9 : 2.1                   | 2     |
| 55    | MCQ  | ME-1    | B                           | 2     |

**GATE-2016****Answer Keys for ME - Mechanical Engineering SET-2**

| Q. No | Type | Section | Key           | Marks |
|-------|------|---------|---------------|-------|
| 1     | MCQ  | GA      | B             | 1     |
| 2     | MCQ  | GA      | A             | 1     |
| 3     | MCQ  | GA      | D             | 1     |
| 4     | MCQ  | GA      | C             | 1     |
| 5     | MCQ  | GA      | B             | 1     |
| 6     | MCQ  | GA      | C             | 2     |
| 7     | MCQ  | GA      | C             | 2     |
| 8     | MCQ  | GA      | C             | 2     |
| 9     | MCQ  | GA      | A             | 2     |
| 10    | MCQ  | GA      | C             | 2     |
| 1     | MCQ  | ME-2    | A             | 1     |
| 2     | MCQ  | ME-2    | C             | 1     |
| 3     | MCQ  | ME-2    | A             | 1     |
| 4     | NAT  | ME-2    | -1.1 : -0.9   | 1     |
| 5     | MCQ  | ME-2    | A             | 1     |
| 6     | MCQ  | ME-2    | D             | 1     |
| 7     | MCQ  | ME-2    | B             | 1     |
| 8     | MCQ  | ME-2    | D             | 1     |
| 9     | NAT  | ME-2    | 2.2 : 2.3     | 1     |
| 10    | MCQ  | ME-2    | B             | 1     |
| 11    | MCQ  | ME-2    | C             | 1     |
| 12    | MCQ  | ME-2    | A             | 1     |
| 13    | MCQ  | ME-2    | D             | 1     |
| 14    | MCQ  | ME-2    | B             | 1     |
| 15    | MCQ  | ME-2    | A             | 1     |
| 16    | MCQ  | ME-2    | D             | 1     |
| 17    | MCQ  | ME-2    | D             | 1     |
| 18    | NAT  | ME-2    | 3.9 : 4.1     | 1     |
| 19    | NAT  | ME-2    | 0.79 : 0.81   | 1     |
| 20    | NAT  | ME-2    | 2.4 : 2.6     | 1     |
| 21    | MCQ  | ME-2    | C             | 1     |
| 22    | MCQ  | ME-2    | B             | 1     |
| 23    | MCQ  | ME-2    | B             | 1     |
| 24    | NAT  | ME-2    | 7.4 : 7.6     | 1     |
| 25    | MCQ  | ME-2    | D             | 1     |
| 26    | NAT  | ME-2    | 725.9 : 726.1 | 2     |
| 27    | MCQ  | ME-2    | B             | 2     |
| 28    | NAT  | ME-2    | 0.39 : 0.43   | 2     |
| 29    | NAT  | ME-2    | 0.175 : 0.195 | 2     |
| 30    | NAT  | ME-2    | 14.1 : 14.3   | 2     |
| 31    | MCQ  | ME-2    | B             | 2     |
| 32    | MCQ  | ME-2    | D             | 2     |
| 33    | MCQ  | ME-2    | C             | 2     |
| 34    | NAT  | ME-2    | -1 : 1        | 2     |
| 35    | NAT  | ME-2    | 239.9 : 240.1 | 2     |
| 36    | NAT  | ME-2    | 0.95 : 1.05   | 2     |

**GATE-2016****Answer Keys for ME - Mechanical Engineering SET-2**

| Q. No | Type | Section | Key           | Marks |
|-------|------|---------|---------------|-------|
| 37    | NAT  | ME-2    | 9.9 : 10.1    | 2     |
| 38    | MCQ  | ME-2    | D             | 2     |
| 39    | NAT  | ME-2    | 860 : 870     | 2     |
| 40    | NAT  | ME-2    | 26.3 : 26.5   | 2     |
| 41    | MCQ  | ME-2    | A             | 2     |
| 42    | NAT  | ME-2    | 0.91 : 0.95   | 2     |
| 43    | NAT  | ME-2    | 2.4 : 2.6     | 2     |
| 44    | NAT  | ME-2    | -55.6 : -55.4 | 2     |
| 45    | NAT  | ME-2    | 63 : 65       | 2     |
| 46    | NAT  | ME-2    | 8.90 : 8.95   | 2     |
| 47    | NAT  | ME-2    | 19.5 : 19.9   | 2     |
| 48    | MCQ  | ME-2    | A             | 2     |
| 49    | NAT  | ME-2    | 1.08 : 1.10   | 2     |
| 50    | NAT  | ME-2    | 423 : 428     | 2     |
| 51    | NAT  | ME-2    | 57.8 : 58.0   | 2     |
| 52    | NAT  | ME-2    | 51.0 : 52.0   | 2     |
| 53    | MCQ  | ME-2    | D             | 2     |
| 54    | NAT  | ME-2    | 1499 : 1501   | 2     |
| 55    | NAT  | ME-2    | 14 : 14       | 2     |

**GATE-2016****Answer Keys for ME - Mechanical Engineering SET-3**

| Q. No | Type | Section | Key         | Marks |
|-------|------|---------|-------------|-------|
| 1     | MCQ  | GA      | C           | 1     |
| 2     | MCQ  | GA      | B           | 1     |
| 3     | MCQ  | GA      | C           | 1     |
| 4     | MCQ  | GA      | C           | 1     |
| 5     | MCQ  | GA      | B           | 1     |
| 6     | MCQ  | GA      | D           | 2     |
| 7     | MCQ  | GA      | A           | 2     |
| 8     | MCQ  | GA      | D           | 2     |
| 9     | MCQ  | GA      | C           | 2     |
| 10    | MCQ  | GA      | B           | 2     |
| 1     | MCQ  | ME-3    | C           | 1     |
| 2     | MCQ  | ME-3    | C           | 1     |
| 3     | MCQ  | ME-3    | B           | 1     |
| 4     | NAT  | ME-3    | 99.6 : 99.8 | 1     |
| 5     | MCQ  | ME-3    | C           | 1     |
| 6     | MCQ  | ME-3    | A           | 1     |
| 7     | MCQ  | ME-3    | C           | 1     |
| 8     | MCQ  | ME-3    | B           | 1     |
| 9     | MCQ  | ME-3    | D           | 1     |
| 10    | MCQ  | ME-3    | B           | 1     |
| 11    | NAT  | ME-3    | 99 : 101    | 1     |
| 12    | MCQ  | ME-3    | C           | 1     |
| 13    | NAT  | ME-3    | 0.99 : 1.01 | 1     |
| 14    | MCQ  | ME-3    | B           | 1     |
| 15    | NAT  | ME-3    | 67 : 68     | 1     |
| 16    | MCQ  | ME-3    | B           | 1     |
| 17    | MCQ  | ME-3    | C           | 1     |
| 18    | MCQ  | ME-3    | B           | 1     |
| 19    | NAT  | ME-3    | 50 : 54     | 1     |
| 20    | MCQ  | ME-3    | C           | 1     |
| 21    | MCQ  | ME-3    | C           | 1     |
| 22    | MCQ  | ME-3    | B           | 1     |
| 23    | MCQ  | ME-3    | B           | 1     |
| 24    | MCQ  | ME-3    | C           | 1     |
| 25    | MCQ  | ME-3    | D           | 1     |
| 26    | NAT  | ME-3    | 2 : 2       | 2     |
| 27    | NAT  | ME-3    | 15.9 : 16.1 | 2     |
| 28    | MCQ  | ME-3    | C           | 2     |
| 29    | MCQ  | ME-3    | A           | 2     |
| 30    | NAT  | ME-3    | 130 : 135   | 2     |
| 31    | NAT  | ME-3    | 19.9 : 20.1 | 2     |
| 32    | NAT  | ME-3    | 2.9 : 3.1   | 2     |
| 33    | NAT  | ME-3    | 0.18 : 0.22 | 2     |
| 34    | MCQ  | ME-3    | D           | 2     |
| 35    | MCQ  | ME-3    | B           | 2     |
| 36    | NAT  | ME-3    | 1.9 : 2.1   | 2     |

## GATE-2016

### Answer Keys for ME - Mechanical Engineering SET-3

| Q. No | Type | Section | Key           | Marks |
|-------|------|---------|---------------|-------|
| 37    | NAT  | ME-3    | 0.49 : 0.51   | 2     |
| 38    | NAT  | ME-3    | 39.9 : 40.1   | 2     |
| 39    | NAT  | ME-3    | 2.6 : 2.7     | 2     |
| 40    | NAT  | ME-3    | 8.76 : 8.78   | 2     |
| 41    | MCQ  | ME-3    | B             | 2     |
| 42    | NAT  | ME-3    | 10.9 : 11.2   | 2     |
| 43    | NAT  | ME-3    | 42.0 : 45.0   | 2     |
| 44    | NAT  | ME-3    | 84 : 86       | 2     |
| 45    | NAT  | ME-3    | 16.9 : 17.1   | 2     |
| 46    | NAT  | ME-3    | 460 : 470     | 2     |
| 47    | NAT  | ME-3    | 1095 : 1130   | 2     |
| 48    | NAT  | ME-3    | 2.85 : 2.95   | 2     |
| 49    | MCQ  | ME-3    | B             | 2     |
| 50    | NAT  | ME-3    | 4.9 : 5.1     | 2     |
| 51    | NAT  | ME-3    | 14 : 18       | 2     |
| 52    | NAT  | ME-3    | 674 : 676     | 2     |
| 53    | MCQ  | ME-3    | A             | 2     |
| 54    | MCQ  | ME-3    | D             | 2     |
| 55    | NAT  | ME-3    | 39000 : 41000 | 2     |