

## GAT-A Business and Engineering Quantitative

| Sr | Questions                                                                                                                                                                                                | Answers Choice                                                                                 |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| 1  | Question Image                                                                                                                                                                                           | A. $81 + 81\sqrt{3}$<br>B. $18 + 18\sqrt{3}$<br>C. $12(1 + 2\sqrt{3})$<br>D. $12 + 12\sqrt{3}$ |
| 2  | Question Image                                                                                                                                                                                           | A. $3\sqrt{3}$<br>B. $36\sqrt{3}$<br>C. 81<br>D. $81\sqrt{3}$                                  |
| 3  | If the angles of a hexagon are in the ratio 2 : 4 : 4 : 4 : 5 : 5, what is the degree measure of the smallest angle ?                                                                                    | A. 30<br>B. 60<br>C. 40<br>D. 70                                                               |
| 4  | If the length of a rectangle is 4 times its width, and if its area is 196, what is its perimeter ?                                                                                                       | A. 60<br>B. 28<br>C. 35<br>D. 70                                                               |
| 5  | Question Image                                                                                                                                                                                           | A. $2 + \sqrt{2}$<br>B. $4 + \sqrt{2}$<br>C. $4(1 + \sqrt{2})$<br>D. $16(1 + \sqrt{2})$        |
| 6  | A triangle has sides, 5 inches, 12 inches and 13 inches, respectively, A rectangle equal in area to that of the triangle has width of 4 inches. The perimeter of the rectangle, expressed in inches, is: | A. 23<br>B. 28<br>C. 60<br>D. 32                                                               |
| 7  | Question Image                                                                                                                                                                                           | A. 120<br>B. 60<br>C. 90<br>D. 30                                                              |
| 8  | The length of a rectangle is twice its width. If the perimeter of a rectangle is the same as the perimeter of a square of size 9, what is the length of a diagonal of the rectangle ?                    | A. 180<br>B. $3\sqrt{5}$<br>C. 36<br>D. $6\sqrt{5}$                                            |
| 9  | Question Image                                                                                                                                                                                           | A. 60<br>B. 40<br>C. 24<br>D. 36                                                               |
| 10 | Question Image                                                                                                                                                                                           | A. 2<br>B. 4<br>C. $2\sqrt{2}$<br>D. $4\sqrt{2}$                                               |
| 11 | Question Image                                                                                                                                                                                           | A. $2(2 + \sqrt{2})$<br>B. $4 + \sqrt{2}$<br>C. $2 + \sqrt{2}$<br>D. 4                         |
| 12 | Question Image                                                                                                                                                                                           | A. $p = 180 + q$<br>B. $q = 30 + p$<br>C. $p = 90 + q$<br>D. $p = 60 - q$                      |
| 13 | Question Image                                                                                                                                                                                           | A. 54<br>B. 72<br>C. $4 + \sqrt{3}$<br>D. $12(4 + \sqrt{3})$                                   |
| 14 | Question Image                                                                                                                                                                                           | A. $3 + 4\sqrt{3}$<br>B. $18(3 + 4\sqrt{3})$<br>C. 54<br>D. $84\sqrt{3}$                       |
| 15 | In figure 2, what is the perimeter of $\triangle BED$ ?                                                                                                                                                  | A. $3 + \sqrt{93}$<br>B. 11<br>C. $11 + \sqrt{97}$<br>D. 81                                    |

|    |                                                                  |                                                                                                  |
|----|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 16 | In figure 2, what is the area of $\triangle BED$ ?               | A. 16<br>B. 14<br>C. 12<br>D. 6                                                                  |
| 17 | What is the perimeter of $\triangle CEA$ , in the figure 1 ?     | A. 16<br>B. 25<br>C. 17<br>D. $2 + 7\sqrt{5} + \sqrt{277}$                                       |
| 18 | What is the area of the triangle $AEC$ , in the above figure 1 ? | A. 12<br>B. 49<br>C. 14<br>D. 21                                                                 |
| 19 | Question Image                                                   | A. $100\sqrt{3}$<br>B. $60\sqrt{3}$<br>C. $30\sqrt{3}$<br>D. $110\sqrt{3}$                       |
| 20 | The area of an equilateral triangle whose altitude is 10, is:    | A. $8\sqrt{3}$<br>B. $2\sqrt{3}$<br>C. $96\sqrt{3}$<br>D. $4\sqrt{3}$                            |
| 21 | Question Image                                                   | A. 35<br>B. 45<br>C. 55<br>D. 40                                                                 |
| 22 | Question Image                                                   | A. $100\sqrt{3}$<br>B. $60\sqrt{3}$<br>C. $80\sqrt{3}$<br>D. $40\sqrt{3}$                        |
| 23 | Question Image                                                   | A. $20\sqrt{3}$<br>B. $70\sqrt{3}$<br>C. $100\sqrt{3}$<br>D. $110\sqrt{3}$                       |
| 24 | Question Image                                                   | A. 80<br>B. 110<br>C. 100<br>D. 95                                                               |
| 25 | Question Image                                                   | A. $70\sqrt{3}$<br>B. $60\sqrt{3}$<br>C. $75\sqrt{3}$<br>D. $65\sqrt{3}$                         |
| 26 | Question Image                                                   | A. 89<br>B. 90.9<br>C. 89.9<br>D. 105                                                            |
| 27 | Question Image                                                   | A. 50<br>B. 30<br>C. 45<br>D. 40                                                                 |
| 28 | Question Image                                                   | A. $x$ only<br>B. $y$ only<br>C. $x$ and $y$ only<br>D. $y$ and $z$ only                         |
| 29 | Question Image                                                   | A. 70<br>B. 45<br>C. 40<br>D. 65                                                                 |
| 30 | Question Image                                                   | A. $x + y = 180$<br>B. $x - y = 180$<br>C. $180 < x + y \leq 270$<br>D. Insufficient information |