

ECAT Mathematics MCQ's Test For Full Book

| Sr | Questions | Answers Choice |
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| Sr | QUESTIONS | |
| | | A. 6x - 2 + c B. x ³ - x ² + x |
| 1 | Question Image | + c C. 6x - x ² + c |
| | | D. 6x ³ - x ² + c |
| | | |
| 2 | The complement of set A relative to universal set U is the set | A. $\{x \mid x \in A \land x \in U\}$ B. $\{x \mid x \notin A \land x \in U\}$ |
| _ | The complement of set A relative to universal set 0 is the set | C. {x / x∈ A and x ∉ U} D. A-U |
| | Overation larger | D. 740 |
| 3 | Question Image | |
| 4 | Question Image | |
| | A combination lock on a suitcase has 3 wheels each labeled with nine digits from 1 to 9. If an | A. 1 / 500 |
| 5 | opening combination is a particular sequence of three digits with no repeats, the probability | B. 1 / 504 C. 1 / 252 |
| | of a person guessing the right combination is | D. 1 / 250 |
| | | A. 1-1 and onto |
| 3 | If f:A→B is an injective function and second elements of no two of its ordered pairs are equal, then f is called | B. Bijective C. 1-1 and into |
| | • • | D. None of these |
| 7 | A conditional "if p then q" is denoted by | |
| | | A. $dy/dx+y/x = x < sup > 2 < / sup > is$: |
| 8 | The solution of differential equation: | B. 4xy = x ⁴ + c C. 4x = x ⁴ = c |
| | The country of an order than equation | D. 4 y = $x < sup > 4 < /sup > + c$ |
| | | E. 4x=4x ³ + c |
| | | A. an even function B. an odd function |
| 9 | $\cos h^2 x + \sin h^2 x$ | C. an even and implicit function |
| | | D. neither even nor a odd |
| 10 | Which of the vectors have opposite direction? | |
| 4.4 | | A. P-6q B. P+6q |
| 11 | The seventh term of an A.P whose first term is P and common difference is q. is | C. P-4q |
| | | D. P-nq |
| 40 | | A. Such that B. This implies that |
| 12 | The symbol ∃ stand for | C. For all |
| | | D. There exist |
| 40 | Danne office wie | A. [-1, -] B. R |
| 13 | Range of tan x is | C. Negative real numbers |
| | | D. R - {x - 1 < x < 1} |
| 4.4 | | A. a and b B. b and c |
| 14 | We solve the system of non-homogeneous linear equations by | C. c and a |
| | | D. a,b and c |
| | | A. <span 24px;="" ;="" font-size:="" style='color: rgb(34, 34, 34); font-family: "Times New</td></tr><tr><td></td><td></td><td>Roman' text-<br="">align: center; background-color: |
| | | rgb(255, 255, 224);"> <i>π / 3</i> |
| 15 | Question Image | B. <i style="text-align: center;">π /</i> |
| | | 4 |
| | | C. <i style="text-align: center;">π / 2</i> |
| | | D. <i style="text-align: center;">π</i> |
| | | A. In-circle |
| | | • |

| 16 | A circle which touches one side of a triangle externally and the other two sides produced is called | B. Circum cirle C. Escribed circle D. None of these |
|----|--|--|
| 17 | Question Image | |
| 18 | The angle of depression of the point at a distance 70 meters from the foot of the tower from the top of the tower is 45^{\square} . The height of the tower is | A. 37m B. 97m C. 101m D. 70m |
| 19 | Question Image | D. none of these |
| 20 | The null vector is regarded to be perpendicular to | A. Every vector B. In some cases C. Both a b D. None |
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