

## Mathematics General Science Test Medium Mode

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3 One minute is denoted by  B. 17 C. 17 D. None of these  A. 2.3 csup>n-1 c/sup> B. 3.2 csup>n-1 c/sup> B. 3.2 csup>n-1 c/sup> A. 2.3 csup>n-1 c/sup> B. 3.2 csup>n-1 c/sup> A. 2 csup>2 c/sup>+ 2 csup>2 c/sup>2 csup>2 c/sup>+ 2 csup>2 c/sup>+ 2 csup>2 c/sup>+ 2 csup>2 c/sup	2	The set which has no proper subset is	B. {} C. {∅}
## If a = 3, r = 2, then the nth term of the G.P. is  ## If a = 3, r = 2, then the nth term of the G.P. is  ## If a = 3, r = 2, then the nth term of the G.P. is  ## If a = 3, r = 2, then the nth term of the G.P. is  ## If a = 3, r = 2, then the nth term of the G.P. is  ## If a = 3, r = 2, then the nth term of the G.P. is  ## If a = 3, r = 2, then the nth term of the G.P. is  ## A **supp2*/supp+**y = y = y = y = y = y = y = y = y = y	3	One minute is denoted by	B. 1' C. 1"
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6 The obtuse angle between lines = -2 and y = x +2 is  7 Question Image  8 The vertex of the standard position angles lies on  8 A (0.0) B. (0.1) C. (1.0) D. (1.1)  9 Rank of matrix [1 3 5 0] is  10 A - B =  11 The direction cosines of a line equally inclined with co-ordinate axes are  12 IfΔABC is right, law of cosine reduce to  13 A statement which is either true or false is called  14 The coefficient of x <sup>18</sup> in (ax <sup>4</sup> -bx) <sup>9</sup> after expansion is  A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good  16 tan θ/2	5		z <sup>2</sup> + ax + by + cz = 0 B. x <sup>2</sup> + y <sup>2</sup> + z <sup>2</sup> - 2ax - 2 by - 2 cz = 0 C. x <sup>2</sup> + y <sup>2</sup> + z <sup>2</sup> = a + b + c D. x <sup>2</sup> +
A (0.0) B. (0.1) C. (1.0) D. (1,1)  9 Rank of matrix [1 3 5 0] is  A 1 B. 3 C. 2 D. 4  10 A - B =  11 The direction cosines of a line equally inclined with co-ordinate axes are  12 IfΔABC is right, law of cosine reduce to  A Law of sine B. Law of langent C. Phithogorous theorem D. Hero's formula  13 A statement which is either true or false is called  A Induction B. Deduction C. Proposition D. Logic  A 84a <sup>3</sup> 6 C. 27a <sup>3</sup> 6 D. 28a <sup>3</sup> 6 D. 28a <sup>3</sup> 6 D. 28a <sup>3</sup> 6 D. 28a <sup>3</sup> 6 A 1/3 A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good  14 tanθ/2	6	The obtuse angle between lines = -2 and y = x +2 is	B. 135° C. 150°
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9 Rank of matrix [1 3 5 0] is  B. 3 C. 2 D. 4  10 A - B =  11 The direction cosines of a line equally inclined with co-ordinate axes are  12 If ΔABC is right, law of cosine reduce to  B. Law of sine B. Law of tangent C. Phthogorous theorem D. Hero's formula  A Induction B. Deduction C. Proposition D. Logic  14 The coefficient of x <sup>18</sup> in (ax <sup>4</sup> -bx) <sup>9</sup> after expansion is  A 84a < sup>3  b < sup>6 < /sup> B. 22a < sup>3 < /sup> b < sup>6 < /sup> D. 28a < sup>3 < /sup> b < sup>6 < /sup> A 1/3  A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good is	8	The vertex of the standard position angles lies on	B. (0,1) C. (1,0)
The direction cosines of a line equally inclined with co-ordinate axes are    A. Law of sine	9	Rank of matrix [1 3 5 0] is	B. 3 C. 2
12 If ΔABC is right, law of cosine reduce to  A. Law of sine B. Law of tangent C. Phthogorous theorem D. Hero's formula  A. Induction B. Deduction C. Proposition D. Logic  14 The coefficient of x <sup>18</sup> in (ax <sup>4</sup> -bx) <sup>9</sup> after expansion is  A. 84a <sup>3</sup> b <sup>6</sup> C. 27a <sup>A</sup> b <sup>6</sup> C. 27a <sup>A</sup> b <sup>6</sup> D. 28a <sup>3</sup> b <sup>6</sup> A. 1/3  A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good  16 tan θ/2	10	A - B =	
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A statement which is either true or false is called  C. Proposition D. Logic  A. 84a <sup>3</sup> b <sup>6</sup> B. 22a <sup>3</sup> b <sup>6</sup> C. 27a <sup>4</sup> b <sup>5</sup> D. 28a <sup>3</sup> b <sup>6</sup> b <sup>6</sup> D. 28a <sup>3</sup> b <sup>6</sup> b <sup>9</sup> b <sup>6</sup> b <sup>9</sup> b <sup>9<td>12</td><td>IfΔABC is right, law of cosine reduce to</td><td>B. Law of tangent C. Phthogorous theorem</td></sup>	12	IfΔABC is right, law of cosine reduce to	B. Law of tangent C. Phthogorous theorem
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A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good is  16 tan θ/2	14	The coefficient of $x^{18}$ in $(ax^4-bx)^9$ after expansion is	C. 27a <sup>4</sup> b <sup>5</sup>
	15	from the box. If one of them is found to be good, the probability that the other is also good	B. 8 / 15 C. 5 / 13
17 Question Image	16	tan <mark>⊕</mark> /2	
	17	Question Image	

8	The area under the curve $y = 1/x^2$ between $x = 1$ and $x = 4$ is:	A25 B. 0.75 C0.35 D10
9	$\cot \frac{\theta}{\theta} = \sin 2\frac{\theta}{\theta} = \frac{1}{2} \sin 2\frac{\theta}{\theta} = 1$	
0	4/√49 is a	A. Irrational Number B. Prime Number C. Rational number D. Whole number