Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 2 and 9 B. 3 and 2 C. 2/3 and 9 D. 3/2 and 6
2	Question Image	
3	The locus of the centre of a circle which touches two given circles externally is:	A. a hyperbola B. an ellipse C. a circle D. a parabola
4	If the intersecting plane is parallel to a generator of the cone, but intersects its one nappe only, the curve obtained is	A. an ellipse B. a hyperbola C. a circle D. a parabola
5	Additive inverse of -a -b is	A. a B. -a + b C. a - b D. a + b
6	If P is a proposition then its negative is denoted by	
7	The common point to four standard parabolas	A. Focus B. Centre C. Vertex D. P(x,y)
8	The set {0,-1} hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
9	Question Image	A. 4 B. 6 C. 8 D. 10
10	Question Image	
11	Question Image	A. 360° B. 180° C. 90° D. None of these
12	With usual notations b2 = a2 + c2 -2ac cos is called_____;	A. None of these B. Law of sines C. Law of consines D. Law of tangents
13	sin $(\alpha+\beta)$ - sin $(\alpha -\beta)$ =	A. 4 cos<i style="text-align: center;">α</i>sin<i>β</i> B. 2 cos<i style="text-align: center;">α</i>sin<i>β</i> C. 4 cos<i style="text-align: center;">α</i>cos<i>β</i> D. 4 sin <i style="text-align: center;">α</i>sin<span style="font-

14	If n is any positive integer then 3 + 6 + 9 + ...+ 3n = _____	

15	Question Image	A. xa^{x-1} B. a^x C. x in a D. a^{x}ln a

16	Question Image	A. 28 / 81 B. 28 / 243 C. 81 / 28 D. 243 / 82

17	(-28,12) divides the join of A(-6,3) and B(5,-2) in ratio	A. 1:2 B. 3:2 C. 2:3 D. 2:1

18	A polynomial of arbitrary degree	A. f(x) = o B. f(x) = x C. f(x) = a D. f(x) = ax + b,a ≠ 0

19	The graph of y < 2 is the	A. Left half plane B. upper half plane C. Right half plane D. Lower half plane

20	A right angle is the angle of measure	A. 90' B. 60° C. 60" D. 90°