Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. direction ratios B. direction cosines C. direction angles D. none of these
2	Question Image	A. 15 B. 15 i C. -15 i D. -15
3	Question Image	A. (2x4) B. (2x7) C. (2x3) D. (7x2)
4	Question Image	
5	Question Image	
6	Power set of X i.e P(X)..........under the binary operation of union U	A. Forms a group B. Does not form a group C. Has no identity element D. Infinite set although X is infinite
7	The eccentricity of ellipse becomes zero, then it takes the form of:	A. a parabols B. a straight line C. a circle D. None of these
8	If $(1+x-2x^3)^6 = 1+a_1x + a_2x^2 + a_3x^3+ \dots$ the the value of $a_2+ a_4+ a_6+ \dots +a_{12}$ will be	A. 32 B. 31 C. 64 D. 1024
9	Tan $2\theta =$	
10	Two circles are said to be concentric if they have	A. same radius B. same chord C. same centre D. same diameter
11	Question Image	
12	The physical quantity which can be specified by a number alongwith unit is called a	A. scalar B. vector C. constant D. none of these
13	Question Image	
14	A = B iff	A. All elements of A also the elements of B B. A and B should be singleton C. A and B have the same number of elements D. If both have the same element
15	Question Image	
16	The proposition S(k+1) is true when _____ is true $\forall K \in N$	A. S(n) B. S(k) C. S(1) D. S(k-1)
17	The 5th term of $(3a-2b)^{-1}$ is	A. $77b^2/a^5$ B. $16b^2/243 a^5$ C. $17b^4/43a^5$ D. $25b^3/43a^5$
18	Question Image	

19	Question Image	
20	Question Image	A. 0 B. 1 C. -1 D. None of these