

## Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	The approximate increase in the area of a circular disc if its diameter increased from 44cm to 44.4cm is	A. 0.4cm B. $8.8\pi\text{cm}$ C. $17.6\pi\text{cm}$ D. $35.2\pi\text{cm}$
2	Question Image	
3	Co-ordinate of a point on the parabola $y^2 = 8x$ whose focal distance is 4 are:	A. (2, 4) B. (-2, -4) C. (-2, 4) D. (2, -4)
4	Decimal part of irrational number is	A. Terminating B. Repeating only C. Neither repeating nor terminating D. Repeating and terminating
5	In one hour, the hour hand of a clock turns through	
6	Question Image	
7	Question Image	D. all are correct
8	Which one represents a sequence	A. an B. Sn C. a(n) D. {an}
9	Which is the proper rational function	
10	The point of concurrency of the medians of a triangle is called	A. incentre B. circumcentre C. e-centre D. centroid
11	p <sup>th</sup> term of an H.P. is qr and q <sup>th</sup> term is pr then the r <sup>th</sup> term of the H.P. is	A. pqr B. 1 C. pq D. $pqr^2$
12	If <u>a</u> and <u>b</u> are two vectors then $a+b =$	A. $b + a$ B. $b - a$ C. ab D. $a^b$
13	For $n \geq -2$ , $1+3+5+\dots+(2n+5)$	A. $(n+2)^2$ B. $(n-2)^2$ C. $2n+1$ D. $(n+3)^2$
14	Question Image	A. 1 B. 7 C. 4 D. None of these
15	Total number of subsets that can be formed out of the set {a,b,c} is	A. 1 B. 4 C. 8 D. 12
16	$1 + 2 + 3 + \dots + n =$ _____	
17	Question Image	
18	Question Image	A. 0 B. 1 C. 2 D. 3
19	$w^{11} =$ _____	A. 0 B. 1 C. w D. $w^{22}$

20

A function  $f$  is said to be an even if  $f(-x) =$

- A. 0
- B. 1
- C.  $f(x)$
- D.  $-f(x)$