

## Quantitative Test for HEC HAT 4 Biological, Medical Sciences

Sr	Questions	Answers Choice
1	If $(x+1/x)^2=96$ what is the value of $x^2 + 1/x^2$ ?	A. 94 B. 98 C. 100 D. 90
2	How many integers from 28 to 98, both exclusive are exactly divisible by 7?	A. 9 B. 11 C. 12 D. 8
3	The annual decrease in the population of a city was 10% and the present number of inhabitants is 1620. What was the population 2 years hence?	A. 20 B. 400 C. 2000 D. 1000
4	A man has Rs. 2000, and spends 18% of it. What money has he left now?	A. 3600 B. 820 C. 1640 D. 4000
5	The population of a city increased in two years from 25,000 to 30,000: find the increase percent during the time.	A. 10% B. 20% C. 40% D. 5%
6	A piece of fabric is cut into three sections so that the first is three times as long as the second and the second is three times as long as the third. What part of the entire piece is the smallest section?	A. 2/5 B. 3/7 C. 2/3 D. 1/13
7	Question Image	A. 40 B. 50 C. 90 D. 130
8	t is an integer greater than 5. The expression that must represent an odd integer is	A. t(t+1) B. 3t-1 C. t <sup>2</sup> D. 2t-3
9	When $3x^2+5x+7$ is subtracted from $x^2+8x+3$ the result is?	A. 5x <sup>2</sup> -3x+4 B. 3x-2x <sup>2</sup> -4 C. x <sup>2</sup> +8x+10 D. 11x <sup>2</sup> +3x+10
10	If a train travels 5/6 mile in 1 1/4 minutes, how many miles will it travel in 1 hour?	A. 20 miles B. 50 miles C. 40 miles D. 30 miles
11	Question Image	A. a B. 90-a C. 180-a/2 D. 180-a
12	Find the value of x if 3:b=x:c.	A. 3b/c B. c/3b C. 2c/3b D. 3c/b
13	If a train travels 5/6 miles in 1 1/4 minutes, how many miles will it travel in 1 hour?	A. 20 miles B. 50 miles C. 40 miles D. 30 miles
14	The value of $x^2$ + 5x +6 at x=2 is:	A. 10 B. 14 C. 18 D. 20
15	In a school there are 400 students, of whom 70% are boys: what is the number of girls?	A. 120 B. 200 C. 280 D. 2800

16	12% of x =360	A. 250 B. 100 C. 400 D. 3000
17	Question Image	A. 40 B. 50 C. 120 D. 130
18	If a pipe can fill a tank in 2 hours and another pipe can fill the same tank in 40 minutes. how much time in minutes is needed to fill the tank if both the pipes are working together?	A. 90 B. 50 C. 60 D. 30
19	A candy recipe calls for 5 parts milk, 4 parts cocoa, 4 parts syrup,2 parts sugar, and 1 part butter. If you use 8 ouncres of milk, how many ounces of candy mixture can you make?	A. 25 3/5 B. 5 3/5 C. 20 D. 128
20	If $a^2$ - $b^2$ =36 and a-b =12 then average of 'a' and 'b' is?	A. 3 B. 12 C. 6 D. 3/2