

Quantitative Test for HEC HAT 1 Engineering & IT

Sr	Questions	Answers Choice
1	Question Image	A. a B. 90-a C. 180-a/2 D. 180-a
2	Question Image	A. b-180 B. b-90 C. 180-a/2 D. 180-a
3	Question Image	A. a-180 B. 2a-180 C. 180-2a D. 180-b
4	Question Image	A. 40 B. 50 C. 120 D. 130
5	Question Image	A. 20 B. 25 C. 40 D. 50
6	A rectangular lot 50 feet by 100 feet is surrounded on all sides by a concrete walk 5 feet wide. Find the number of square feet in the surface of the walk.	A. 1600 B. 5250 C. 5500 D. 6100
7	Question Image	A. 780 B. 585 C. 1170 D. 540
8	An angle is 30° more than one-half its complement. Find the angle.	A. 20° B. 30° C. 50° D. 60°
9	Question Image	A. 4π B. 18π C. 28π D. 32π
10	Question Image	A. b B. b-180 C. 90-b D. 180-b
11	Question Image	A. 41° B. 65° C. 115° D. 106°
12	Question Image	A. 15 B. 30 C. 45 D. 72
13	If the radius of a circle is increased by 20% then the area is increased by	A. 44% B. 120% C. 144% D. 40%
14	A rectangle is 16 cm long and 10 cm wide. If the length is reduced by k cm and its width is increased also by k cm so as to make it a square then its area changes by	A. 169 B. 256 C. 100 D. 9 E. None of the above
15	If p is a negative integer and $P^2 + 11p = t$, a value of t could be	A. 12 B. 18 C. -18 D. -12

		D. 11
16	The average height of five men is 68 inches. If one man is 70 inches tall and three others have an average of 67 inches, the height of the fifth man, in inches, is	A. 68 B. 69 C. 70 D. 71
17	Question Image	A. 25/32 B. 7/8 C. 32/25 D. 11/10
18	Dave is twice as old as Bob, who is 3 years older than Steve. If Steve is $4a$ years old, Dave's age is	A. $8a$ B. $22a$ C. $14a$ D. $8a + 6$
19	If 7 apples cost y cents, how many apples will x dollars buy ?	A. $x / 7y$ B. $7x / y$ C. $7x / 100y$ D. $700x / y$
20	If a machine can place a cap on a bottle of soda every 0.8 seconds, how many bottles can be capped in 2 hours ?	A. 8000 B. 9000 C. 300 D. 900
21	How many tens are equal to the number whose hundreds, tens, and units digits are a , b , and c , respectively ?	A. b C. $10a+b+c$
22	If $(36)(?)(7)=21$, then ? equals	A. $21/43$ B. $1/42$ C. $1/12$ D. $1/11$
23	In solving an arithmetic example, Donna, by mistake multiplied by 6 instead of dividing by 6. If her answer was $13 \frac{1}{5}$, what should be the correct answer to the example ?	A. $2 \frac{8}{11}$ B. $5/66$ C. $2 \frac{1}{5}$ D. $11/30$
24	If $(p-3)(p+5) > (p-3)(p+8)$, what is the best description of p ?	A. $p = 3$ B. $-8 < p < -5$ C. $p = \{ \text{ } \}$ D. $p < 3$
25	Four people are asked to stand in a straight line. In how many different orders can they line up ?	A. 12 B. 16 C. 24 D. 6
26	How many integers between 28 and 98 are exactly divisible by 7 ?	A. 9 B. 11 C. 12 D. 8
27	A clock gain 8 minutes every x hours. How many hours will the clock gain in 3 days ?	A. $576/x$ B. $48/5x$ C. $24/x$ D. $576/5x$
28	If Myra had bowling scores of $b + 6$, $b - 2$, $b + 4$, and $b - 5$, what must she score in the next game to get an overall average of $b + 2$?	A. $b + 7$ B. $b - 3$ C. $b + 3$ D. $b - 7$
29	Which of the following is the sum of two consecutive prime numbers ?	A. 66 B. 52 C. 41 D. 29
30	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^{2+2} D. $2t-3$
31	If $abc = 2$ and $a = c$ then $b =$	A. a^{2+2} B. $1/2a$ C. $2/a^{2+2}$ D. $2-a^{2+2}$
32	If you have 50 green, 50 orange, and 50 yellow jelly beans, how many bags can you fill for Halloween each containing 2 green, 3 orange, and 4 yellow jelly beans ?	A. 12 B. 13 C. 16 D. 17
33	One-sixth of a day is what part of the time between 3 p.m. Monday and 3 p.m. Thursday of the same week ?	A. $1/10$ B. $1/18$ C. $1/15$ D. $1/12$

34	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
35	A word processing operator typed 44 words per minute. After practice, the operator's speed increased to 55 words per minutes. By what percent did the operator's speed increase ? (25%)	A. 25% B. 50% C. 15% D. 20%
36	A man spent 10% of his money. After spending 60% of the remainder he has Rs. 72 left. How much had he in the start ?	A. 10 B. 100 C. 200 D. 400
37	A man opens a bookstall with a capital of Rs. 25000. In three month his capital amounts to rupees 27500. What is the increase percent ?	A. 1% B. 10% C. 20% D. 7%
38	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%
39	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
40	A man has Rs. 2000, and spends 18% of it. What money has he left now ?	A. 3600 B. 820 C. 1640 D. 4000