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Monday, August 17, 2015

AMCAT Quantitative Ability Previous Papers-2

11)A single letter is drawn at random from the word."ASPIRATION", the probability that it is a vowel is?
a)1/2 b)1/3 c)3/5 d)2/5
Ans) A single letter drawn at random from the above given word is $5c_1/10 = 1/2$

12) The number of ways in which 15 students A1,A2,---A15 can be ranked, such that A4 is always above A8 is:
a)15! b)13! c)15!/2 d)13!/2

13)Suparna needs to browse through 75pages of a novel before she gives her review to the class. She has 2.5 hrs before the lecture. What should be her reading speed in pages/hour?
a) 16 b)30 c) 20 d) 22

Ans) speed=distance/time
S=75/2.5

S=30

14) The value of $\log_{10}0.1$ is :
a) 0 b) -1 c) -10 d) -100
Ans)$\log_{10}0.1 = \log_{10}10^{-1} = -1 \log_{10}10 = -1$ $(\log_{10}10 = 1)$

15) A written exam consists of 6 questions with the answer options as yes/no/none. In how many ways can the examinees select the answers?
a) 6 ways b) 6 ways c) 3 .3 .3 .3 .3 d) $(3^6$
Ans) In 3^6 ways the examiners select the answers.

16) What is the sum of the two consecutive numbers, If the difference of whose squares is 19?
a. 9 b. 10 c. 18 d. 19

Ans) $(n+1)^2-n^2=19$

We get 2n=18, n=9

17) P is an integer. P>883. If (p-7) is a multiple of 11, then the largest number that will divide (p+4) (p+15) is :
11 121 242 None of the above

18) Find the least number which when divided by 5, 7 and 13 leaves the same remainder 3 in each case
398 453 458 463

Ans) By trial method we get the answer as 458.Why because if we divide the number with 5,7,13 it leaves the remainder as 3 in all the three cases.

19)Which number should be subtracted from 321 so that it becomes prime?

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2 4 6 9

Ans) If we apply trial method 2 is the answer.If we subtract 321 from 2 the result will be 319 hence this is the prime number

20) 2^8X2^2 =

4^{10} 2^{10} 2^{16} 4^{16}

Ans) By the formula $a^m*a^n=a^{m+n}$

$2^8 * 2^2 = 2^{8+2} = 2^{10}$

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17. Given P is an integer>883.
P-7 is a multiple of 11=>there exist a positive integer a such that
P-7=11 a=>P=11 a+7
(P+4)(P+15)=(11 a+7+4)(11 a+7+15)
=(11 a+11)(11 a+22)

1

JNTU Ananthpur 1 month ago - Shared publicly
Answer for 19th is wrong becoz 319 is divisible by 11
Correct Ans:
321 is divisible by three, so if we subtract 4 we get 317 which is prime.
primes are in the form 4n + 1 or 4n - 1; those which can be written 4n +1 can also be written in the form m^2 + n^2, but not the others

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Answer for 17th Question
p=11k+7
so (p+4)(p+15)=(11k+11)(11K+22)
=11(k+1)*11(k+2)
=121(k+1)(k+2)

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Answer for 12th Question
When A8 is in 2nd position A4 can occupy only 1st.
When A8 is in 3rd position A4 can occupy only 1st or 2nd.
So the number of ways in which A4 and A8 can be arranged = 1+2+...+14 = 14*15/2
In the remaining 13 positions other students can be permuted in 13! ways.

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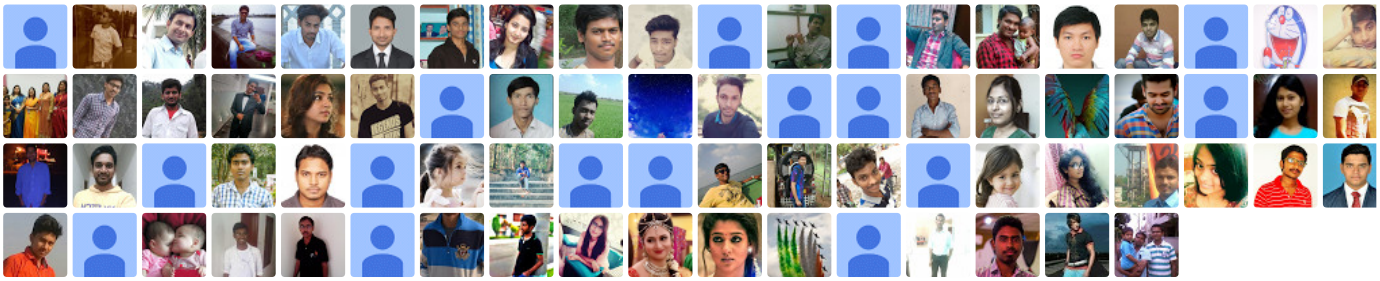

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