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71.   Find the remainder when 2^{21} is divided by 6.
    A.   0   B.   1   c.   2   D.   3

72.   Which of the following numbers is the smallest number?
    A.   1/12   B.   1/6   C.   ¼   D.   1/3

Ans: (A)

73.   A phone company offers 5 phone plan options: call waiting, call forwarding, voice mail, conferencing, and caller ID. A customer can choose 3 options. The number of ways one can avail the plan options   is:
    A.   5   B.   10   C.   3   D.   20

Solution:

5c3 =10 is correct answer

74.   If $\log_{32} x + \log_{32} (1/8) = 1/5$, then the value of x is equal to:
    A.   8   B.   5   C.   16   D.   32

Solution:

$\log_b x + \log_b y = \log_b xy$

so $\log_{32} x + \log_{32}(1/8) = 1/5$

$\log_{32} x(1/8) = 1/5$

$x/8 = 32^{1/5}$

$x/8 = 2$

$x = 16$

75.   Length and breadth of a rectangle are directly proportional. If length increases from 6 cm to 21 cm and if breadth now is 14 cm, then what   was the breadth before any change in length occurred?
 A.   4 cm B.   1.5 cm   C.   2 cm   D.   3 cm

Solution:

since they are directly proportional

6/21=x/14

x=(14*6)/21=4

breadth=4cm..

76.   At an election there are 5 candidates among which 3 members are to be elected and a voter may vote for any number of candidates not greater than the number to be elected. Then the number of ways in   which a voter may vote are ?
        A.   25   B.   30   C.   32   D.   None of the above

Solution:

77.   One card is drawn from a pack of 52 cards, each of the 52 cards being equally likely to be drawn. Find the probability that the card drawn is '9' of hearts.
        A.   1/13   B.   1/26   C.   1/52   D.   3/52

Solution:

78.   If $2^x * 3^y = 18$ and $2^{2x} * 3^y = 36$, the value of x is:
        A.   0   B.   1   C.   2   D.   3   E.   None of the above

Solution:

second equation can be written as,

2^x*2^x*3^y=36. substituting the first equation value,

2^x*18=36.

2^x=2^1;

a^m=a^n, then m=n, so we get x=1

79.   An unbiased coin is tossed 5 times. If tail appears on first 4 tosses, then probability of tail appearing on the fifth toss is: A.   ½   B.   1   C.   0   D.   4/5

Solution: (A) Appearing tail on fifth toss is independent of first 4 tosses.

80.   In a single throw of dice, what is the probability to get a number greater than or equal to 4?   A.   1/3   B.   2/3

C.   ½   D.   None of the above

Solution: Getting number greater than or equal to 4 means 4,5 and 6 are possibilities.

Total case for a dice is 6.

ans: 3/6 = 1/2

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76 ans a
if person selecting one candidate then they can vote in 5 ways
if if person selecting two candidate then they can vote in 10 ways
if person selecting three candidate then they can vote in 10 ways
10+10+5=25

1

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71 ans is c
2^21=2097152
which when divided by 6 gives the remainder 2

1

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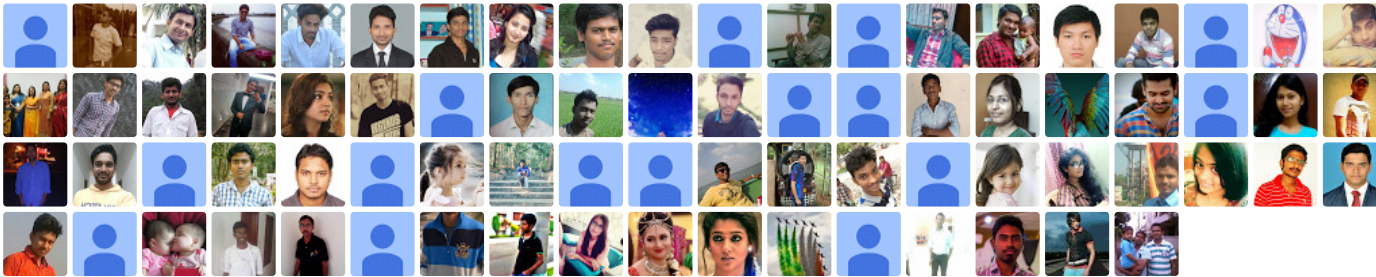
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