mcq-analytical-reasoning-18-mar-2023

Total points 7/25 ❓

Upskill India Jan 2023 Program.

I swear on my country (motherland), I swear on my mother tongue, I swear on my family, that I will take this test sincerely and honestly. *

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◉ I SWEAR.

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✕ The difference between simple interest and compound interest on a sum of money for 1 year at 4% per 6 months is 4, what is the sum? *0/1

○ Rs. 2100 ✕

○ Rs. 2300

○ Rs. 2500

○ Rs. 3000

Correct answer

◉ Rs. 2500

✕ Today Madan is 20 years younger than his father. Ten years ago he was one-half as old as his father. How old his father is ten years hence? *0/1

◉ 40 years ✕

○ 50 years

○ 60 years

○ Data inadequate

Correct answer

◉ 60 years

✓ A box contains 4 white, 5 red, and 6 blue balls. If three balls are drawn at random *1/1
from the box, what is the probability that all of them are blue?

- ⦿ 4/91 ✓
- ○ 4/81
- ○ 4/71
- ○ 4/61

✗ Praveen, Sunny, and Ashu Bhati start a business. Twice the capital of Praveen is *0/1
equal to thrice the capital of Sunny and Sunny's capital is four times Ashu Bhati's
capital. Find the Sunny's share if the total profit earned is 297000.

- ⦿ 107000 ✗
- ○ 109000
- ○ 108000
- ○ 115000

Correct answer

- ⦿ 108000

✓ A man tossed two dice. What is the probability that the total score is a prime number? ***1/1**

- ⦿ 5/12 ✓
- ○ 5/14
- ○ 5/20
- ○ 5/24

✗ The solution of the equations *
$[(x+4)/4] + [(y+3)/5] = 2$, $[(2x+1)/3] +[(y+5)/2] = 2$ is **0/1**

- ⦿ x=4,y=3 ✗
- ○ x=4,y=-3
- ○ x=-4,y=-3
- ○ x=-4,y=3

Correct answer

- ⦿ x=4,y=-3

✓ A sum invested at the rate of interest 5% S.I grows to Rs. 5400 in 4 years. The same amount in 3 years at the rate of 10% per annum S.I will grow to ***1/1**

- ⦿ Rs. 5850 ✓
- ○ Rs. 5800
- ○ Rs. 5750
- ○ Rs. 5700

✓ Two mixers and one T.V. cost Rs. 7000 while two T.V.'s and 'one mixer cost Rs. 8,800. What is the price of one mixer (in Rupees)? *1/1

- ◉ 1400 ✓
- ○ 1300
- ○ 1250
- ○ 1100

✓ If the difference between Simple Interest and Compound Interest on a sum of money for 3 years is Rs. 200 and the rate of interest is 10%, what is the sum? *1/1

- ◉ Rs. 6451.6 ✓
- ○ Rs. 6351.6
- ○ Rs. 6251.6
- ○ Rs. 6151.6

✗ A man draws two cards at random from a pack of 52 cards. What is the probability that one is a spade and the other is a heart? *0/1

- ◉ 13/105 ✗
- ○ 13/102
- ○ 13/110
- ○ 13/108

Correct answer

- ◉ 13/102

✗ A sum of money amounts to 3300 in 2 years and Rs. 3600 in 5 years. What is the *0/1
principal amount?

◉ Rs. 2700   ✗

○ Rs. 2850

○ Rs. 2950

○ Rs. 3100

Correct answer

◉ Rs. 3100

✗ A, B, and C invest 63000, 56000, and 84000 respectively to start a business. After *0/1
one year, the profit is distributed in the ratio of their investments. If C's share of
profit is Rs.54000, find the total profit earned.

◉ 135030   ✗

○ 130500

○ 145000

○ None of these

Correct answer

◉ 130500

✕ In an institution, half of the students went on industrial tour. 12 times of the square root of total students went to see the industrial fair and remaining 128 students were allotted a project work. Total number of students in the institution is *0/1

○ 576 ✕

○ 288

○ 1024

○ None of above

Correct answer

◉ 1024

✕ A moneylender charges Rs. 180 as simple interest on a sum of Rs. 600 for four months. What is the rate of interest per annum? *0/1

◉ 80% ✕

○ 85%

○ 90%

○ 95%

Correct answer

◉ 90%

✗ Two partners invest Rs.125000 and Rs. 85000 respectively in a business and agree that 60% of the profit should be divided equally between them and the remaining profit is to be treated as interest on capital. One partner gets 300 more than the other. Find the total profit made in the business. *0/1

- ⊙ 3739.50 ✗
- ○ 3749.50
- ○ 2375.60
- ○ 3937.50

Correct answer

- ⊙ 3937.50

✗ The simple interest on a certain sum of money at rate of interest 5% per annum for 2 years is Rs. 500. What is the compound interest on the same sum for the same period and at the same rate of interest? *0/1

- ⊙ Rs.412.5 ✗
- ○ Rs.400
- ○ Rs.500
- ○ Rs.512.5

Correct answer

- ⊙ Rs.512.5

✓ An agent allows a rebate of 4% to an investor while the bank pays an interest of 14% on the investment. What is the actual rate of interest earned by the investor on his investment? *1/1

- ⦿ 18.75% ✓
- ◯ 18%
- ◯ 17.75 %
- ◯ 16%

✕ A, B, and C enter into a partnership. A invests one-fourth of the capital for one-fourth of the time. B invests one-fifth of the capital for half of the time. C contributes the remaining capital for the whole time. How should they divide a profit of Rs 1140? *0/1

- ⦿ 150, 540, 870 ✕
- ◯ 100, 160, 860
- ◯ 100, 160, 880
- ◯ 120, 170, 830

Correct answer

- ⦿ 100, 160, 880

✕ The cost of 3 kg potatoes and 2 kg tomatoes is Rs. 32 and that of 1 kg potato and *0/1
4 kg tomatoes of the same type is Rs. 39. The cost (in Rupees) of potatoes and
tomatoes per kg are respectively

◉ 5 and 17 ✕

○ 18 and 5

○ 5 and 17/2

○ 3 and 17/2

Correct answer

◉ 5 and 17/2

✕ The difference between Simple Interest and Compound Interest on a certain sum *0/1
of money for 2 years is Rs.200. If the rate of interest is 12.5%, what is the sum?

◉ Rs. 11800 ✕

○ Rs. 12000

○ Rs. 12800

○ Rs. 13000

Correct answer

◉ Rs. 12800

✕ A sum of money at simple interest becomes Rs. 3000 in 2 years and Rs. 3540 in 5 *0/1
years. Find the rate of interest.

⦿ 4 %   ✕

◯ 4.5 %

◯ 5%

◯ 6%

Correct answer

⦿ 6%

✕ The contributions made by Ravi and Suresh are in the ratio of 3:2. If 5% of total   0/1
profit is donated and Ravi gets 8550 as his share of profit, what is the total profit?

⦿ 14000   ✕

◯ 14500

◯ 15000

◯ 15500

Correct answer

⦿ 15000

✗ A card is drawn from a pack of 52 cards. What is the probability of getting a king *0/1
of heart or a queen of club?

- ⦿ 1/22 ✗
- ◯ 1/24
- ◯ 1/26
- ◯ 1/28

Correct answer

⦿ 1/26

✗ In how many years the compound interest on Rs. 10000 at the rate of 10% will be *0/1
Rs. 2100 ?

- ⦿ 1.5 years ✗
- ◯ 2 years
- ◯ 2.5 years
- ◯ 3 years

Correct answer

⦿ 2 years

✓ Ram draws one card at random from a pack of 52 cards. What is the probability *1/1
that the card drawn is a face card (jack, queen and king only)?

◉ 3/13 ✓

○ 3/15

○ 3/17

○ 3/19

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