



Mu Sigma Aptitude Questions for Mu Sigma MuApt Aptitude Test 2018

Musigma aptitude questions asked in MuApt online test are discussed in this article. You can practice the below-given questions to get a better understanding of this section.



Musigma Aptitude Test Pattern & Syllabus

- **Total MuAPt test duartion:** 60 mins
- **Total Questions:** 72 Questions
- **Number of question you can expect from aptitude:** 7-8

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Also, below is the expected list of topics from which questions are likely to be asked.

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[» To check the complete Mu Sigma Test Pattern and Syllabus, click here](#)

Mu Sigma Aptitude Questions & Solutions

Given below is a bunch of good quality Mu sigma Aptitude Questions based on Quantitative Aptitude. Attempt these Mu sigma Aptitude Questions to assess your preparations for the upcoming career exam.

1. A basket contains 3 green, 5 brown and 3 red balls. If 3 balls are drawn at random what is the probability that all are brown?

- A. 2/11
- B. 1/11
- C. 3/11
- D. 8/33

Answer: Option E.

Ways of selecting 3 brown balls out of 5 5C_3 Total ways of selecting 3 balls ${}^{11}C_3$ The required probability = $({}^5C_3 / {}^{11}C_3) = (10/165) = (2/33)$ □

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2. The ratio of the capacity to do work of Arindam and Balu is 3 : 2. If they together can complete a work in 18 days, then how long does Arindam take to complete the work alone?

- A. 45
- B. 30
- C. 24
- D. 40

Answer: Option A

Let Arindam and Balu take $3x$ and $2x$ days to complete the work

$$\frac{1}{3x} + \frac{1}{2x} = \frac{1}{18}; x = 15$$

So Arindam will take 45 days.

3. A Postman buys a cycle for Rs. 1400 and sells it at a loss of 15%. What is the selling price of the cycle?

- A. Rs. 1090
- B. Rs. 1160
- C. Rs. 1190
- D. Rs. 1202

Answer: Option C

S.P. = 85% of Rs. 1400 = Rs. $85/100 \times 1400 = \text{Rs. } 1190$

4. On selling 17 cups at Rs. 720, there is a loss equal to the cost price of 5 cups. The cost price of a ball is:

- A. Rs. 45
- B. Rs. 50
- C. Rs. 55
- D. Rs. 60

Answer: Option D

$$(\text{C.P. of 17 cups}) - (\text{S.P. of 17 cups}) = (\text{C.P. of 5 cups})$$

$$\text{C.P. of 12 cups} = \text{S.P. of 17 cups} = \text{Rs. } 720.$$

$$\text{C.P. of 1 ball} = \text{Rs. } 720/12 = \text{Rs. } 60.$$

5. A man mixes 26 kg of rice at Rs. 20 per kg with 30 kg of rice of other variety at Rs. 36 per kg and sells the mixture at Rs. 30 per kg. His profit percent is:

- A. 0%
- B. 5%
- C. 8%
- D. 10%

Answer: Option B

$$\text{C.P. of 56 kg rice} = \text{Rs. } (26 \times 20 + 30 \times 36) = \text{Rs. } (520 + 1080) = \text{Rs. } 1600.$$

$$\text{S.P. of 56 kg rice} = \text{Rs. } (56 \times 30) = \text{Rs. } 1680.$$

$$\text{Gain} = 80/1600 \times 100 \% = 5\%.$$

6. A sum of money is to be distributed among Arti, Meera, Chandu, Danish in the proportion of 5 : 2 : 4 : 3. If Chandu gets Rs. 1000 more than Danish, what is Meera's share?

- A. Rs. 500**
- B. Rs. 1500**
- C. Rs. 2000**
- D. None of these**

Answer: Option C

Let the shares of Arti, Meera, Chandu and Danish be Rs. $5x$, Rs. $2x$, Rs. $4x$ and Rs. $3x$ respectively.

$$\text{Then, } 4x - 3x = 1000$$

$$x = 1000.$$

$$\text{Meera's share} = \text{Rs. } 2x = \text{Rs. } (2 \times 1000) = \text{Rs. } 2000.$$

7. Salaries of Rachit and Kshama are in the ratio 2 : 3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40 : 57. What is Kshama's salary?

- A. Rs. 25,500**
- B. Rs. 20,000**
- C. Rs. 17,000**
- D. Rs. 38,000**

Answer: Option D

Let the original salaries of Rachit and Kshama be Rs. $2x$ and Rs. $3x$ respectively.

$$\text{Then, } [2x + 4000]/[3x + 4000] = 40/57$$

$$57(2x + 4000) = 40(3x + 4000)$$

$$6x = 68,000$$

$$3x = 34,000$$

$$\text{Kshama's present salary} = (3x + 4000) = \text{Rs.}(34000 + 4000) = \text{Rs. } 38,000.$$

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8. Two cars starting at the same time from 2 garages 200 km apart and going in opposite direction cross each other at a distance of 110 km from one of the garages. What is the ratio of their speeds?

A. 11:9

B. 7:3

C. 18:4

D. None of these

Solution:

Option(A) is correct

In the same time, they cover 110 km and 90 km respectively.

For the same time, speed and distance is inversely proportional.

So ratio of their speed = 110:90 = 11: 9



9. A sportsperson can row 4.5 km/hr in still water and he finds that it takes him twice as long to row up as to row down the river. Find the rate of the stream.

- A. 1.75 km/hr
- B. 2.5 km/hr
- C. 1.5 km/hr
- D. 2 km/hr

Solution: Option(C) is correct

Let the speed of the current be x km/hr

Thus upward speed = $(4.5 - x)$ km/hr

and downward speed = $(4.5 + x)$ km/hr

Let distance traveled be y , then for the same distance y ,

Time Rowing Upwards = 2 Time Rowing Downwards

$$\frac{y}{4.5 - x} = 2 \frac{y}{4.5 + x}$$

$$x = 1.5 \text{ km/hr}$$

10. A criminal steals a car and drives it at 15 km/hr. The theft has been discovered after one hour and the owner of the car sets off in another car at 25 km/hr. When will the owner overtake the criminal from the starting point?

- A. 2.5 hr
- B. 1.5 hr
- C. 2 hr
- D. 1 hr

Solution: Option(B) is correct

Distance covered by the criminal in one hour = 15 km

Now this distance is to be covered by the relative speed of $(25 - 15) = 10 \text{ km/hr}$

Hence, time required to cover this distance at a speed of 10 km/hr:

$$= 10/15$$

$$= 1.5 \text{ hr}$$

11. There are two examinations rooms Room 1 and Room 2. If 10 students are sent from Room 1 to Room 2, then the number of students in each room is the same. If 20 candidates are sent from Room 2 to Room 1, then the number of students in Room 1 is double the number of students in Room 2. The number of students in room Room 1 is:

a. 20

b. 80

c. 100

d. 200

Answer: Option c

Explanation:

Let the number of students in rooms Room 1 and Room 2 be x and y respectively.

$$\text{Then, } x - 10 = y + 10 \quad x - y = 20 \dots \text{(i)}$$

$$\text{and } x + 20 = 2(y - 20) \quad x - 2y = -60 \dots \text{(ii)}$$

Solving (i) and (ii) we get: $x = 100$, $y = 80$.

The required answer Room 1 = 100.

12. The price of 2 belts and 4 wallets is Rs. 1600. With the same money one can buy 1 belt and 6 wallets. If one wants to buy 12 wallets, how much shall he have to pay ?

A. Rs. 1200**B. Rs. 2400****C. Rs. 4800****D. Cannot be determined**

Answer: Option B

Explanation:

Let the price of a belt and a wallet be Rs. x and Rs. y respectively.

$$\text{Then, } 2x + 4y = 1600 \dots \text{(i)}$$

$$\text{and } x + 6y = 1600 \dots \text{(ii)}$$

Divide equation (i) by 2, we get the below equation.

$$\Rightarrow x + 2y = 800. - \text{(iii)}$$

Now subtract (iii) from (ii)

$$x + 6y = 1600 (-)$$

$$x + 2y = 800$$

$$4y = 800$$

Therefore, $y = 200$.

Now apply value of y in (iii)

$$\Rightarrow x + 2 \times 200 = 800$$

$$\Rightarrow x + 400 = 800$$

Therefore $x = 400$

Solving (i) and (ii) we get $x = 400, y = 200$. □

Cost of 12 wallets = Rs. (12×200) = Rs. 2400.

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13. A tank 6m long and 4 m wide contains water up to a depth of 1 m 25 cm. The total area of the wet surface is:

- A. 49 m^2
- B. 50 m^2
- C. 53.5 m^2
- D. 55 m^2

Answer: Option A

$$\begin{aligned}\text{Area of the wet surface} &= [2(lb + bh + lh) - lb] \\ &= 2(bh + lh) + lb \\ &= [2(4 \times 1.25 + 6 \times 1.25) + 6 \times 4] \text{ m}^2 \\ &= 49 \text{ m}^2.\end{aligned}$$

14. A trader has a sale of Rs. 6435, Rs. 6927, Rs. 6855, Rs. 7230 and Rs. 6562 for 5 consecutive months. How much sale must he have in the sixth month so that he gets an average sale of Rs. 6500?

- A. Rs. 4991
- B. Rs. 6991
- C. Rs. 6001
- D. Rs. 5991



Answer: Option A

Total sale for 5 months = Rs. $(6435 + 6927 + 6855 + 7230 + 6562) = \text{Rs. } 34009$.

Required sale = Rs. $[(6500 \times 6) - 34009]$

= Rs. $(39000 - 34009)$

= Rs. 4991.

15. A paper sheet is of rectangular shape with dimensions 48m x 36m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m³) is:

A. 8960

B. 5120

C. 6420

D. 4830

Answer: Option B

Clearly, l = $(48 - 16)m = 32\text{ m}$,

b = $(36 - 16)m = 20\text{ m}$,

h = 8 m.

Volume of the box = $(32 \times 20 \times 8)\text{ m}^3 = 5120\text{ m}^3$.

16. Which term of the series 5, 8, 11, 14,.....is 317?

[A]. 104th

[B]. 105th

[C]. 106th

[D]. 64th

Answer: Option B

Clearly, $5 + 3 = 8$, $8 + 3 = 11$, $11 + 3 = 14$,

So, the series is an A.P. in which $a = 5$ and $d = 3$.

Let 320 be the nth term of the series.

Then, $320 = 5 + (n - 1) \times 3$ or $(n - 1) = 105$ or $n = 106$.

17. The following pie-chart shows the sources of funds to be collected by Govt. (Organization) for its Phase II projects. Study the pie-chart and answers the question that follow.



Sources of funds to be arranged by Organization for Phase II projects (in crores Rs.)

1. Near about 20% of the funds are to be arranged through:

A. Market Borrowing

B. External Assistance**C. Annuity****D. SPVS**

Answer: Option B

20% of the total funds to be arranged = Rs. (20% of 57600) crores

= Rs. 11520 crores~= Rs. 11486 crores.

Rs. 11486 crores is the amount of funds to be arranged through External Assistance.

2.If Organization could receive a total of Rs. 9695 crores as External Assistance, by what percent (approximately) should it increase the Market Borrowing to arrange for the shortage of funds?

A. 8%

B. 7.5%

C. 6%

D. 4.5%

Answer: Option C

Shortage of funds arranged

through External Assistance Therefore = Rs. (11486 – 9695) crores

= Rs. 1791 crores.

Therefore Increase required in Market Borrowing = Rs. 1791 crores.

Percentage increase required = $(1791/29952 \times 100) \% = 5.98\% \approx 6\%$.

3.If the toll is to be collected through an outsourced agency by allowing a maximum 10% commission, how much amount should be permitted to be collected by the outsourced agency, so that the project is supported with Rs. 4910 crores?

- A. Rs. 5316 crores**
- B. Rs. 5827 crores**
- C. Rs. 5401 crores**
- D. Rs. 6213 crores**

Answer: Option C

Amount permitted = (Funds required from Toll for projects of Phase II) +
(10% of these funds)

$$\begin{aligned} &= \text{Rs. 4910 crores} + \text{Rs. (10\% of 4910) crores} \\ &= \text{Rs. } (4910 + 491) \text{ crores} \\ &= \text{Rs. 5401 crores.} \end{aligned}$$

4.The central angle corresponding to Market Borrowing is

- A. 192.4**
- B. 137.8**
- C. 187.2**
- D. 52**

Answer: Option C

Central angle corresponding to Market Borrowing = $(29952/57600 \times 360) (= 187.2)$

5.The approximate ratio of the funds to be arranged through Toll and that through Market Borrowing is

A. 2 : 9

B. 1 : 6

C. 3 : 11

D. 2 : 5

Answer: Option B

Required ratio = $4910/29952 = 1/6.1 \approx 1/6$.

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