Corrigendum/Explanation SFG 2024 Level 2 Test 4

Number of items taken for scoring: 49

Number of items dropped: 01 (Question no. 26)

There are 2 changes in today's paper (Q.26 and Q.48). In Q.26 there is no matching option and in Q.48, the correct answer is Option (c).

Also, some extra explanations have been provided for the students who have raised doubts.

Q.26) The Question has been dropped as there was no matching option.

For Future Reference:

Q.26) Consider the following sectors:

1. Manufacturing
2. Construction
3. Mining and quarrying
4. Trade, hotel and restaurant

Which of the following is the correct descending order of the above sectors based on their share of the total workforce they employ as per the recent annual Periodic Labour Force Survey (PLFS) report?

a) 2-4-1-3
b) 4-1-2-3
c) 2-1-4-3
d) 4-2-1-3

Ans) d

Exp) Option d is the correct answer.

The data from the Periodic Labour Force Survey (PLFS) for the financial year 2023-24 provides for the percentage distribution of workers across different industrial sectors.

Option 4: The trade, hotel and restaurant sector, which offers jobs in retail, hospitality, and food services, employs **12.2% of total workers.**

Option 2: The **construction sector**, which provides employment opportunities for unskilled and semi-skilled workers, accounts for **12.0% of total workers**.

Option 1: The manufacturing sector, which engages workers in production and industrial activities, contributes to **11.4% of total employment.**

Option 3: The mining & quarrying sector, which is highly mechanized and employs a limited workforce, accounts for **only 0.2% of total workers.**

Hence the correct descending order is Option d i.e. 4- 2 - 1 – 3: Trade, Hotel & Restaurant (12.2%) → Construction (12.0%) → Manufacturing (11.4%) → Mining & Quarrying (0.2%)

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Statement 7: Percentage distribution of workers in usual status (ps+ss) by broad industry division estimated from PLFS (2021-22), PLFS (2022-23) and PLFS (2023-24)

all-India

broad industry division as per NIC 2008	rural			urban			rural+urban		
	male	female	persons	male	female	person	male	female	person
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
	PLFS (2023-24)								
agriculture	49.4	76.9	59.8	4.8	12.3	6.7	36.3	64.4	46.1
mining & quarrying	0.3	0.0	0.2	0.4	0.1	0.3	0.3	0.1	0.2
manufacturing	8.1	8.5	8.3	19.3	24.1	20.5	11.4	11.6	11.4
electricity, water, etc.	0.5	0.1	0.4	1.3	0.5	1.1	0.7	0.2	0.5
construction	17.7	3.9	12.5	13.2	3.0	10.5	16.4	3.7	12.0
trade, hotel & restaurant	10.9	3.9	8.3	26.7	15.0	23.6	15.5	6.1	12.2
transport, storage & communications	5.9	0.1	3.7	13.2	4.9	11.0	8.1	1.1	5.6
other services	7.1	6.5	6.9	21.2	40.1	26.2	11.3	13.0	11.9
all	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	PLFS (2022-23)								
agriculture	49.1	76.2	58.4	4.7	11.7	6.4	37.1	64.3	45.8
mining & quarrying	0.4	0.1	0.3	0.6	0.1	0.5	0.4	0.1	0.3
manufacturing	8.2	8.3	8.2	20.5	23.9	21.3	11.6	11.1	11.4
electricity, water, etc.	0.5	0.1	0.4	1.3	0.5	1.1	0.7	0.2	0.5
construction	19.0	4.2	13.9	12.6	3.1	10.3	17.3	4.0	13.0
trade, hotel & restaurant	10.5	4.1	8.3	26.5	15.2	23.8	14.8	6.2	12.1
transport, storage & communications	5.3	0.2	3.5	13.2	5.5	11.4	7.4	1.2	5.4
other services	7.0	6.9	7.0	20.6	40.1	25.3	10.7	13.0	11.4
all	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source:
https://www.mospi.gov.in/sites/default/files/publication_reports/AnnualReport_PLFS2023-24L2.pdf (Page 15)

In Q.48) the correct answer is option (c).

For Future Reference:

Q.48) Two cones are given such that the curved surface area of the first cone is four times that of the second cone. If the slant height of the second cone is twice that of the first cone, what is the ratio of the areas of their bases?
a) 16 : 1
b) 36 : 1
c) 64 : 1
d) 81 : 1

Ans) c
Exp) Option c is the correct answer.
Let:
- r_1 and L_1 be the radius and slant height of the first cone.
- r_2 and L_2 be the radius and slant height of the second cone.

It is given that -

1. Curved Surface Area (CSA) of the first cone is four times that of the second cone:

$\pi^{\star}r_1{}^{\star}L_1 = 4^{\star}\pi^{\star}r_2{}^{\star}L_2$

2. Slant height of the second cone is twice that of the first:

$L_2 = 2^{\star}L_1$

From the CSA equation:

$r_1{}^{\star}L_1 = 4^{\star}r_2{}^{\star}L_2$

Substituting $L_2 = 2L_1$:

$r_1{}^{\star}L_1 = 4^{\star}r_2{}^{\star}(2L_1)$

$r_1{}^{\star}L_1 = 8^{\star}r_2{}^{\star}L_1$

=> $r_1 = 8\ r_2$

Now, the base area of a cone is:

$A = \pi\ r^2$

Ratio of base areas:

$(\pi\ r_1{}^2)\ /\ (\pi\ r_2{}^2) = (r_1{}^2)\ /\ (r_2{}^2)$

Substituting r1 = 8 r2:

$(8r_2)^2\ /\ (r_2{}^2) = 64r_2{}^2\ /\ r_2{}^2 = 64:1$

Subject:) CSAT

Topic:) Quantitative Aptitude and Data Interpretation

Subtopic:)

In Q.46) There was a doubt raised regarding the answer of the question that option b should be the answer instead of option c.

Explanation-Option c is the correct answer. The number of five-rupee notes and ten-rupee notes is not given, but there are four twenty-rupee notes along with some five-rupee notes and some ten-rupee notes which are distributed among three students.

To distribute 4 notes of 20 rupees, there can be 3 possibilities:

All 4 notes of 20 rupees go to one student, then the minimum amount each student will have is 80 rupees as all will have the equal amounts.

2 students get 2 notes of twenty rupees each. In this case all three students will have to have 40 rupees minimum to have the same amount.

One case will be where we first give 3 notes of 20 rupees to 3 students and give one remaining 20 rupee note to one of the students. In this case also, at least 1 student will have 2 notes of 20 rupees and hence will have 40 rupees minimum. So remaining 2 students will also have 40 rupees minimum to get equal amounts.

So, the question is not just about distributing minimum equal amounts of rupees among 3 students, but the distribution of 4 notes of 20 rupees will also be taken into consideration.

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