

Aptitude Test

RULES : (i) calculators are not allowed. (ii) Duration 20-25 mins.

Question 1)

Study the following table and answer the questions based on it.

Expenditures of a Company (in Lakh Rupees) per Annum Over the given Years.

Year	Item of Expenditure				
	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

1 A) What is the average amount of interest per year which the company had to pay during this period?

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- Ⓐ Rs. 32.43 lakhs
- Ⓑ Rs. 33.72 lakhs
- Ⓒ Rs. 34.18 lakhs
- Ⓓ Rs. 36.66 lakhs

Answer: Total interest of all years = $23.4L + 32.5L + 41.6L + 36.4L + 49.4L = 183L$

No of Years = 5

Average amount interest of per year = $183/5 = 36.66L$

Option (D) company are paying average 36.66 Lakhs interest per year.

1 B) The total amount of bonus paid by the company during the given period is approximately what percent of the total amount of salary paid during this period?

- Ⓐ 0.1%
- Ⓑ 0.5%
- Ⓒ 1%
- Ⓓ 1.25%

Answer: Sum of bonuses = $3.00+2.52+3.84+3.68+3.96=16.00$ lakhs

Sum of salaries = $288+342+324+336+420=1710$ lakhs

Percentage the total bonus with respect to the total salary = $(16/1710)*100 = 0.95=1\%$

The total amount of bonus paid by the company during the given period is approximately **1%** of the total amount of salary paid during this period.

Option Ⓒ 1% is the correct answer.

1 C) Total expenditure on all these items in 1998 was approximately what percent of the total expenditure in 2002?

- Ⓐ 62%
- Ⓑ 66%
- Ⓒ 69%
- Ⓓ 71%

Answer: Total expenditure in 1998 = $288+98+3.00+23.4+83=495.4$ lakhs

Total expenditure in 2002 = $420+142+3.96+49.4+98=713.36$ lakhs

Calculate the percentage = $(495.4/713.36)*100 = 69\%$

The total expenditure in 1998 was approximately **69%**.

1 D) The total expenditure of the company over these items during the year 2000 is?

- Ⓐ Rs. 544.44 lakhs
- Ⓑ Rs. 501.11 lakhs
- Ⓒ Rs. 446.46 lakhs
- Ⓓ Rs. 478.87 lakhs

Answer: Adding all the expenditure in year 2000 = $324+101+3.84+41.6+74=544.44$ lakhs

Question 2

Three unbiased coins are tossed. What is the probability of getting at most two heads?

(A) $\frac{3}{4}$

(B) $\frac{1}{4}$

(C) $\frac{3}{8}$

(D) $\frac{7}{8}$

Answer Total outcomes when two coins are tossing: $2 \times 2 = 4$

Outcomes with at most 2 heads: At most 2 heads means we need to count outcomes with 0, 1, or 2 heads.

- Outcomes with 0 heads: 1 (TTT)
- Outcomes with 1 head: 3 (HTT, THT, TTH)
- Outcomes with 2 heads: 3 (HHT, HTH, THH)

Total outcomes with at most 2 heads: $1+3+3=7$

Probability = $\frac{7}{8}$

The probability of getting at most two heads when three unbiased coins are tossed is $\frac{7}{8}$

Option (D) is correct $\frac{7}{8}$

Question 4

How much does a watch lose per day, if its hands coincide every 64 minutes?

(A) $32\frac{8}{11}$ min.

(B) $36\frac{5}{11}$ min.

(C) 90 min.

(D) 96 min.

Answer is option (A) $32\frac{8}{11}$ Min

Question 5

Which is better investment: 11% stock at 143 or $9\frac{3}{4}\%$ stock at 117?

- (A) 11% stock at 143
- (B) $9\frac{3}{4}\%$ stock at 117
- (C) Both are equally good
- (D) Cannot be compared, as the total amount of investment is not given.

Answer is Option (B) is correct

Question 6

Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be:

- (A) Rs. 169.50
- (B) Rs. 170
- (C) Rs. 175.50
- (D) Rs. 180

Option © 175.50 is correct.

Question 7

Due to enormous profits involved in smuggling, hundreds of persons have been attracted towards this anti-national activity. Some of them became millionaires overnight. India has a vast coastline both on the Eastern and Western Coast. It has been a heaven for smugglers who have been carrying on their activities with great impunity. There is no doubt, that from time to time certain seizures were made by the enforcement authorities, during raids and ambush but even allowing these losses the smugglers made huge profits.

The passage best supports the statement that

- (A) smuggling hampers the economic development of a nation.
- (B) smuggling ought to be curbed.
- (C) authorities are taking strict measures to curb smuggling.
- (D) smuggling is fast increasing in our country owing to the quick profit it entails.

Option (D) is the correct answer.

Question 8

Read the below passage carefully and answer the questions:

The government of an island nation is in the process of deciding how to spend its limited income. It has \$7 million left in its budget and eight programs to choose among. There is no provision in the constitution to have a surplus, and each program has requested the minimum amount they need; in other words, no program may be partially funded. The programs and their funding requests are:

- * Hurricane preparedness: \$2.5 million
- * Harbor improvements: \$1 million
- * School music program: \$0.5 million
- * Senate office building remodeling: \$1.5 million
- * Agricultural subsidy program: \$2 million
- * National radio: \$0.5 million
- * Small business loan program: \$3 million
- * International airport: \$4 million

8 A)

Senators from urban areas are very concerned about assuring that there will be funding for a new international airport. Senators from rural areas refuse to fund anything until money for agricultural subsidies is appropriated. If the legislature funds these two programs, on which of the following could they spend the rest of the money?

- ☐ Ⓐ the school music program and national radio
- ☐ Ⓑ hurricane preparedness
- ☐ Ⓒ harbor improvements and the school music program
- ☐ Ⓓ small business loan program
- ☐ Ⓔ national radio and senate office building remodeling

Option (A) is correct.

8 B)

If the legislature decides to fund the agricultural subsidy program, national radio, and the small business loan program, what two other programs could they fund?

- ☐ Ⓐ harbor improvements and international airport
- ☐ Ⓑ harbor improvements and school music program
- ☐ Ⓒ hurricane preparedness and school music program
- ☐ Ⓓ hurricane preparedness and international airport
- ☐ Ⓔ harbor improvements and hurricane preparedness

Option (B) is correct.

8 C)

If the legislature decides to fund the agricultural subsidy program, national radio, and the small business loan program, the only other single program that can be funded is

- ☐ A hurricane preparedness.
- ☐ B harbor improvements.
- ☐ C school music program.
- ☐ D senate office building remodeling.
- ☐ E international airport.

Option (D) is correct.

Question 9)

Here are some words translated from an artificial language.

gorbflur means fan belt

pixngorbl means ceiling fan

arthtusl means tile roof

Which word could mean "ceiling tile"?

- ☐ A gorbltusl
- ☐ B flurgorbl
- ☐ C arthflur
- ☐ D pixnarth

Option (D) is the correct answer.