

Goa Institute of Management: Ribandar Goa
Post Graduate Diploma in Business Administration Part time
Entrance test : sample questions

The entrance test will be used to shortlist candidates for the interview. Candidates who fare poorly on any individual section on the entrance test will not be called for the personal interview and will not be admitted in the Programme.

The test will consist of 4 compulsory sections, one each in Mathematics, Data Interpretation, Reading Comprehension and Essay. Details about each of these four sections are given below:

Section 1. MATHEMATICS

This section will have a total of **20** multiple choice questions. The questions will be based on Arithmetic and basic Algebra. You will be allotted a total of **35** minutes for this section. Each correct answer will carry one mark.

Some sample questions with answers are provided here:

Question: 1

A piece of equipment cost a certain factory Rs. 6,00,000/-. If it depreciates in value, 15 percent the first year, 13.5 percent the next year, 12 percent the third year, and so on, what will be its value at the end of 10 years, all percentages applying to the original cost?

- (a) Rs. 2,00,000/-
- (b) Rs. 1,05,000/-
- (c) Rs. 4,05,000/-
- (d) Rs. 6,50,000/-

Correct Option - (b)

Solution:

Let the cost of equipment is Rs. 100.

Now the percentages of depreciation at the end of 1st, 2nd, 3rd years are 15, 13.5, 12, which are in A.P., with $a = 15$ and $d = -1.5$.

Hence percentage of depreciation in the 10th year = $a + (10-1)d = 15 + 9(-1.5) = 1.5$

Also total value depreciated in 10 years = $15 + 13.5 + 12 + \dots + 1.5 = 82.5$

Hence the value of equipment at the end of 10 years = $100 - 82.5 = 17.5$

The total cost being Rs. $6,00,000/100 * 17.5 =$ Rs. 1,05,000/-

Question: 2

A railway half ticket costs half the full fare and the reservation charge is the same on half ticket as on full ticket. One reserved sleeper class full ticket from Kolkata to Hyderabad costs Rs. 216/-, and one full and one half reserved sleeper class tickets cost Rs. 327/-. What is the basic sleeper class full fare and what is the reservation charge?

- (a) Rs. 105/- and Rs. 6/-
- (b) Rs. 216/- and Rs. 12/-
- (c) Rs. 210/- and Rs. 12/-
- (d) Rs. 210/- and Rs. 6/-

Correct Option - (d)

Solution:

Let half of the full basic fare is Rs. X.

Therefore, full basic fare is Rs. 2X.

Let the reservation charge is Rs. Y per ticket.

Now, one full reservation ticket would cost 2X (basic fare) + Y (reservation charge)

$$2X + Y = 216 \quad \text{---(1)}$$

The total basic fare for one half and one full ticket = $X + 2X = 3X$ and the total reservation charge is 2Y.

Hence,

$$3X + 2Y = 327 \quad \text{---(2)}$$

Solving equations (1) and (2) we get, $X = 105$ and $Y = 6$

Hence, the basic sleeper class full fare is $2X =$ Rs. 210/- and the reservation charge is $Y =$ Rs. 6/-.

Section 2. DATA INTERPRETATION

This section will also consist of **20** multiple choice questions. In this section, you will be provided with data in the form of an equation, graph, pie-chart, table or in the form of a paragraph. One or more questions will have to be answered by you on the basis of your interpretation of the data provided to you. You will be allotted a total of **35** minutes for this section. Each correct answer will carry one mark.

Some sample questions with answers are provided here:

Question: 16

Given that on 27th February 2003 is Thursday. What was the day on 27th February 1603?

- (a) Monday
- (b) Thursday
- (c) Sunday
- (d) Tuesday

Correct Option - (b)

Reason:

After every 400 years, the same day occurs. Thus, if 27th February 2003 is Thursday, before 400 years, i.e., on 27th February 1603 has to be Thursday.

Question: 17

When a number is divided by 36, it leaves a remainder of 19. What will be the remainder when the number is divided by 12?

- (a) 7
- (b) 10
- (c) 11
- (d) None of these

Correct Option - (a)

Reason:

Let the number be 'x'. When 'x' is divided by 36, let the quotient be 'q' and we know the remainder is 19

$$\Rightarrow \frac{x}{36} = q, \text{ and remainder is } 19.$$

$$\Rightarrow x = 36q + 19$$

Let 'q' is 1. Thus, $x = 36 \times 1 + 19 = 55$. In other words, $\frac{x}{36} = q + \text{remainder}$

$$\Rightarrow \frac{55}{36} = q + \text{remainder} = 1.53 = 1 + 0.53. \text{ Here, } q = 1, \text{ and remainder} = 0.53 \times 36 \cong 19.$$

When 'x' is divided by 12, we get

$$\frac{55}{12} = q1 + \text{remainder} = 4.58 = 4 + 0.58.$$

Here, q1 = 4, and remainder = $0.58 \times 12 \cong 7$.

Section 3. Reading Comprehension

You will be given a business related paragraph on which you are expected to answer the questions given below. This section also has **20** multiple choice questions. Time duration for this section is 35 minutes.

Some sample questions with answers are provided here:

Read the following passages and answer the questions that follow.

Africa was one of the sites where agriculture began. Archaeological investigations suggest that knowledge of cultivation moved west from ancient judaea (southern Palestine) and arrived in the Nile Delta in Egypt about the fifth millenium before Christ Settled agriculture then traveled down the Nile Valley and moved west across the southern edge of the Sahara to the central and Western Sudan. By the first century B.C. settled agriculture existed in West Africa. From there it spread to the equatorial forests. African farmers learned to domesticate plants, including millet, sorghum, and yams. Cereal-growing people probably taught forest people to plant regular fields. Gradually African farmers also learned to clear land by burning. They evolved a sedentary way of life-living in villages, clearing fields, relying on root drops, and fishing.

McKay et al., A History of world Societies, Vol. 1, fifth edition, p.282

Question: 31

In this passage, the world investigations means the same as

- A. Studies
- B. Experts
- C. Crops
- D. Forests

Correct Answer: A. Studies

Section 4. Essay

You will be provided with one topic. On this topic you are expected to write an essay of about 300-400 words (one full page provided). This write up must be grammatically perfect. Time duration for the same is **15** minutes.