

Model Paper “Business Mathematics & Statistics”
For D.Com Part-I (Account Group)
Annual Examinations 2012 & Onward

OBJECTIVE

Roll No. _____

Part-A

Time: 15 Minutes

Marks: = 10

Note: This part is compulsory. It should be attempted on the Question Paper & returned to the Supervisory Staff after the prescribed time Cutting, overwriting and use of lead pencil is not allowed. Supervisory staff is requested to attach it with the answer book. (Only English version)

Q.1 Encircle the most suitable given options: (10 x 1) = 10

- i. Which members system is used in electronic machinery?
(a) Hexa (b) Octal (c) Binary (d) Decimal
- ii. The value under binary system of amount Rs. 4442:
(a) 10011 (b) 20011 (c) 001001 (d) 110111110
- iii. The binary system consist of :
(a) 1, 2 (b) 2, 3 (c) 1, 3 (d) 1, 5
- iv. If the cost price is Rs. 200 and sale prices Rs. 30 than the percentage profit will be:
(a) 50% (b) 100% (c) 25% (d) 90%
- v. Amount paid to an agent as remuneration of his services is called:
(a) Fee (b) Salary (c) wages (d) Common
- vi. If the basic price is Rs. 350 and rate of profit in 1% the amount of profit is Rs:
(a) 40 (b) 50 (c) 35 (d) 35.5
- vii. The formula to find the commission on the sale price is:
(a) Rate x Sale Volume /100 (b) 100 x rate/ Sale Value
(c) 100+ Sale Value / Rate (d) 100 + Rate / Sale Value
- viii. Questionnaire method is used in Collection of:
(a) Discrete data (b) Primary data (c) Constant data (d) Secondary Data
- ix. The difference of lower limit and upper limit of any group is called:
(a) Frequency (b) Class boundary (c) Class Interval (d) Upper Limit
- x. The formula to find the A.M is:
(a) $\frac{Ex}{n}$ (b) $\frac{Efx}{Ef}$ (c) $\frac{P.M+Ed}{n}$ (d) All the three

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Subjective

Part-B

Time: 02:00 Hours

Marks: 40

SECTION-I

Q.2 Write short answers to any Twelve (12) of the following questions. (12 x 2) = 24

(PART-A)

- i. Explain with example, Binary System.
- ii. Write down the percentage formula.
- iii. What percentage of Rs. 175, 200, is Rs. 50?
- iv. Covert 223 into Binary System.
- v. Increase 120 by 5 %.
- vi. Rs. 7 is what percentage of Rs. 24?

(PART-B)

- vii. Define the term commission.
- viii. If the commission on Rs. 24000 is Rs. 5500 find the rate of commission.
- ix. Define central Tendency.
- x. Sales Price is Rs. 2000, rate of discount 10% what is the amount of discount.
- xi. Difference cash discount and Trade discount.
- xii. Define Raw DATA.

(PART-C)

- xiii. Explain the Octal System with example.
- xiv. What are the uses of Statistics?
- xv. Explain two main types of diagrams.
- xvi. Write the formula of G.M of group data.
- xvii. Write down the formula of H.M of group data.
- xviii. Determine the range value of the following values: (101, 73).

SECTION-II

Note: Attempt any two (2) questions. Each carries to equal marks.

Q.3 (a) Change the following number into the Binary number system: (4)

(i) 2124 (ii) 3118

(b) Convert the following value into the decimal number system: (4)

(i) (1001)₂ (ii) (101001)₂

Q.4 A marketing executive services commission of 20 % of monthly sales amounting to Rs. 7800. Find the marketing executive's monthly commission. (8)

Q.5 Calculate the A.M. with the help of following data: (8)

<u>Marks</u>	<u>No. of Students</u>
0-10	15
10-20	20
20-30	25
30-40	24
40-50	12