

Statistics-2
Model Exam Question paper - 2
11th Standard

Business Maths

Reg.No. :

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I. Answer all the questions

Time : 00:45:00 Hrs

Total Marks : 35

Part-A

7 x 1 = 7

- 1) $P(A/B)$ is
(a) $\frac{P(A \cap B)}{P(A)}$ (b) $\frac{P(A \cap B)}{P(B)}$, $P(B) = 0$ (c) $\frac{P(A \cap B)}{P(B)}$, $P(B) \neq 0$ (d) None of these
- 2) Which is based on all the observations?
(a) Range (b) Median (c) Mean (d) Mode
- 3) Which is not unduly affected by extreme item?
(a) Median (b) Mean (c) Mode (d) None of these
- 4) The empirical relation between mean, median and mode is
(a) Mean - mode = 3 median (b) Mean - mode = 3 (mean - median) (c) Mean - mode = 2 mean (d) mean = 3 median - mode
- 5) Square of S.D. is called
(a) mean deviation (b) quartile deviation (c) variance (d) range
- 6) If A and B are independent event, then $P(A \cap B)$ is
(a) $P(A)P(B)$ (b) $P(A) + P(B)$ (c) $P(A/B)$ (d) $P(B) - P(A)$
- 7) Which of the following is correct?
(a) $H.M. \leq G.M. \leq A.M.$ (b) $H.M. \geq G.M. \geq A.M.$ (c) $A.M. < G.M. < H.M.$ (d) None of these

Part-B

6 x 2 = 12

- 8) A perfect die tossed twice. Find the probability of getting a total of 9.
- 9) A bag contains 4 white and 6 black balls. Two balls are drawn at random. What is the probability that (i) both are white (ii) both are black.
- 10) A number is choose out of the numbers {1, 2, 3,..... 100} What is the probability that it is (i) a perfect square (ii) a multiple of 3 or 7.
- 11) A bag contains 4 white, 5 black, and 6 red balls. A ball is drawn in random. What is the probability that is red or white?
- 12) If two dice are thrown simultaneously, what is the probability that the sum of the points on two dice is greater than 10^9 .
- 13) A person is known to hit the target 3 out 4 shots where as another person is known to hit 2 out of 3 shots. Find the probability of the target being hit when they both shoot.

Part-C

2 x 3 = 6

- 14) Find the S.D. of the following set of observations by using Deviation Method.

45, 36, 40, 36, 42, 45, 35, 40, 39.

- 15) Find the S.D. from the following set of observation by using

(i) Mean

25, 32, 43, 53, 62, 59, 48, 31, 24, 33

Part-D

2 x 5 = 10

- 16) Calculate the Arithmetic mean for the following

Wages in Rs.	100-119	120-139	140-159	160-179	180-199
No. of Workers	18	21	13	5	3

- 17) Calculate the Median weight of persons in an office from the following data.

Weight (in kgs.)	60-62	63-65	66-68	69-71	72-74
No. of Persons	20	113	138	130	19
