Statistics – First – الفصل الصيفي – 2021

Q1: Suppose P(A)=0.34 and P(B)=0.48. if P(B|A) equals

    a- 0.0578
    b- 0.1204
    c- 0.24
    d- 0.0816
    e- 0.1632

Q2:

X	Frequency
1	3
2	4
3	3

Suppose X in the table above is the number of emails received per hour, then the standard deviation of X is

    a- 0.60
    b- 0.816
    c- 0.775
    d- 2.0
    e- 0.667

Q3: if the upper class limits of the first two classes in a frequency table with equal class widths (lengths) are 10 and 16, respectively, then the midpoint (center) of the second class is

    a- 13
    b- 11
    c- 9.5
    d- 13.5
    e- 16.5

Q4: if P(A) = 0.20, P(B) = 0.45, and if A and B are independent, then P(A∪B) equals

    a- 0.56
    b- 0.74
    c- 0.09
    d- 0.65
    e- 0.29

Q5: Suppose the scores on an exam have a mean of 70 with standard deviation of 10. If one student has a test result with a z-score of -0.8 and a second student has a test result with a z-score of 1.6, how many points higher was the second student's score than that of the first?

    a- 24
    b- 10
    c- 20
    d- 2.4
    e- 12

Q6: the type and measurement level of patient blood group, respectively are

    a- Quantitative and nominal
    b- Qualitative and nominal
    c- Qualitative and ordinal
    d- Quantitative and ordinal
    e- Quantitative and interval

Q7: Suppose the mean of a math exam score is 64 with a standard deviation of 10. If each score is increased by 6 and then each result is multiplied by 1.1, then the new mean and standard deviation are

    a- M=77.0 and σ=12.0
    b- M=77.0 and σ=11.0
    c- M=70.6 and σ=10.0
    d- M=77.7 and σ=12.6

e- M=70.0 and σ=10.1

Q8: Three sixth grades, two seventh grade, and five eighth grade students were randomly arranged in a row, then the probability that the sixth students are next to each other is

   a- 1/15
   b- 1/5
   c- 5/90
   d- 15/90
   e- 1/42

Q9: According the chebyshev's rule, the proportion of observation within 2.5 standard deviations of the mean is

   a- Exactly 16%
   b- At most 84%
   c- At least 84%
   d- At least 16%
   e- At most 16%

Q10: The average salary of 12 male employees is 550 JD and the average salary of 8 female employees is 420 JD, then the average salary among all these employees is

   a- 495 JD
   b- 484 JD
   c- 498 JD
   d- 485 JD
   e- 505 JD

Q11:

class	frequency
8-12	7
13-17	12
18-22	10
23-27	8
28-32	3

The 60th percentile of the data presented in the table above is

a- 18.5
b- 19
c- 21
d- 20
e- 22

Q12: if the mean of 22,X,2X+5 is 31 then the value of X is

a- 18
b- 22
c- 25
d- 27
e- 16

Q13: if three supermarkets are selling a chocolate bar for 1.15 JD, five are selling it for 1.25 JD, and ten are selling it for 1.50 JD, then the median price of the chocolate bar is

a- 1.15
b- 1.25
c- 1.30
d- 1.50
e- 1.20

Q14: The outlier(s) in the data set 6,20,20,21,27,22,25,30,40 is (are)

    a- 6
    b- 30 and 40
    c- 6 and 40
    d- 6 and 20
    e- 40