Poisson Questions

Question 1

A student is collecting data on traffic arriving at a materially service station during worlddy breckristen. The random variable X denotes the number of cars arriving in a randomly chosen period of ten seconds.

(i) State two assumptions recessory if a Poisson distribution is to provide a mitable model for the distribution of X. Communi briefly on whether these assumptions are likely to be valid.

440

The student counts the number of artivals, a, in each of 200 ten second periods. The data are shown in the table below.

- 1	0.0	1		3		3.	25
Property./	28	39	20	12	1	. 3	-0

(ii) Show that the sample coran is 1.62 and calculate the sample variance.

131

(Bit) Do your coloritations in part (B) support the suggestion that a Poisson distribution is a suitable model for the distribution of AT Explain your assess. [12]

For the remainder of this question you should assure that X may be modelfied by a Poisson distribution with must 1.62.

(bi) Find PCX = 21. Common on your answer in relation to the data in the table.

(x) Find the probability that at least ten care arrive in a period of 50 seconds during weekshey benchismus.

June 2005

Question 2

Not in Walning a choice of subtron indexting stars. Excellently the choice, she was success at an amount one of 3.3 too execute.

(ii) Note conditions required for a Prisonn distribution to be a satisfic needs for the number of metrors which first ours during a randomly selected minute.
§2)

You may arrested that their conditions are national.

- (III) Find the probability that, during one minute, how were
 - off) insafe, our meteor.

Affic at boot 4 sixtures. 340

diffs Final the productivity that, in a probability file in probability that is a probability of the probabi

June 2009

Question 3

A public water copply contains bacteria. Each day at analysis books the water quality by counting the countries of bacteria to a condens complet of 5 mi of water.

Theregions title question, you should assume that the horizons occur condinerly at a mean rare of \$1.37 hazanta per 2 and of water.

- elle Und a Reimon destribution to
 - LE: Stall the productions that a 7 oil sample contains exactly 2 hashesis. [2]
- ritte the month of September has 39 days. Find the probability that during September there is at most over day when a 1 mil namely contains more than 3 hashing. \$140.

The duly 2 and comple is the first stage of the quality control position. The remaindered the position is an inflation.

- If the 5 art sample contains more than 7 horizons then a Wood sample is rater.
- If this 70 and compute exemples region than 6 four entry, there a continue of 1990 and in region.
- If this 1000 and sample continue over their 90 tecture, then the apply is declared to be 'questionable'.

(III) Electric probability that a condom sample of Mind contains meet than 8 huncris. (3) June 2008

Question 4

A radioscrive seems to decaying at a moust rate of 3.3 crisis per 5 seconds.

do Nate problems for a Poisson distribution to be a satisfied model for the rate of decay of the season. 123

You may account that a Process alors into the width a create save of 3.4 counts per 5 seconds is a solidate model.

- (II) State the emission of this Prinsen distribution.
- (8b Flad the probability of
 - CRI charity 3 counts in a 5-second period.
 - GPs at least 1 counts in a 5-second potent.
- this find the probability of exactly 40 common in a probab of 60 seconds. [3]

June 2010

Exam timings: Q1 (19 mins), Q2 (11 mins), Q3 (15 mins), Q4 (14 mins)

Mei Statistics 2 The Poisson Distribution Answers

Chao Zhang

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