

(4)

Unit-III / FkaeF-III

6. Distinguish between crude death rates and standardized death rates. Why generally crude death rates of two places should not be compared? Explain the indirect and direct methods of finding standardized death rates.

DeMeesDele SJebevekeakeale ceHJegoj ellKeele Devlej nP oesmLeevel keaer DeMeesDele ceHJegoj ellkear legreeve kealeWverkear peeveer UeechUes? cevekeakeale ceHJegoj %eele keajves kear DelUe#e leLee DeDelUe#e elledUeeWkeas mecePeekaj eueeKeeles

7. Write an essay on life table.

JeUe meeefj Ceer hej Skea ereyevOe eueeKeeles

Unit-IV / FkaeF-IV

8. Explain the principle underlying the construction control charts for variables. Describe the operation of  $\bar{x}$  and R charts.

Uejes ntegeveUeeCe UeeSeX cellUeeh le emeeevle keas mhe-S keaepes-  $\bar{X}$  Deejj R UeeSeX kear keaUeeCeueer kea JeCeele keaepes-

9. What is acceptance control? Describe the various types of it with suitable examples.

mJeekeale ereUeeCe kelee nesee nP GheUeeja Eej e Fmekea elledUee Ueekeaj ellkeae JeCeele keaepes-

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S-698

B.A. (Part-III) Examination, 2015

MATHEMATICAL STATISTICS

Second Paper

(Applied Statistics)

Time Allowed : Three Hours ] [ Maximum Marks : 35

Note : Answer only five questions, selecting one question from each unit. Question No.1 is compulsory and would carry 15 marks. Rest all questions carry 5 marks each.

kaUee heeBe ka Goej oeepeS, epevecellmes DelUeeke FkaeF&me Skea Ueeve nes- Ueeve meh1 DeereJeeUe&nw leLee 15 DekeaelKeae nW DevUe DelUeeke Ueeve 5 DekeaelKeae nW

1. (i) What are control charts and where are they used?

ereUeeCe eUese kelee nesee nQ leLee Gvekeae GheUeeje keanel erealee peelee nP

(ii) What are the main components of time Series?

meeUe-BeSeer ka ceKUe DeJeeUe keaewe mes nP

(iii) Explain the Term correlation.

menmeyerOe Jeeaa mecePeefUes

(2)

- (iv) What is meant by vital statistics?  
JeeFŠue DeekRai[s kebilee nQ
- (v) State the different methods of estimating reliability of a test.  
hej e#eCe keär e#elUemeveeDelee kebilee nQ
- (vi) Describe different concepts of validity.  
JeeDelee keär e#ee/e#e DeleDeej CeeDeell/keäe JeCete keäepeS-
- (vii) State the various methods of calculating Notional Income.  
je° ö#e DeeDe keäs ceheveskeär e#ee/e#e e#eeDeUell/keäs yeeFÜes
- (viii) What is the problem of measurement in education?  
e#e#ee MeeCEe cell/cehe keär mecamÜee kebilee nQ
- (ix) Distinguish between defect and defective. Give some examples of defect for which c-chart is applicable.  
oese Deej ö#e#e cell/Devej mhe° keäepeS- oeselee keä keajÜ Smes GoenjCe oepes peneBc-mebÜese GheUeeier nes
- (x) What tests do a good index number satisfy?  
ekäameer DeÜÜsmeeÜeäkeä cell/keäme-keäme meshej e#eCe ieqe nesre ÜeeenÜes?

(3)

Unit-I / FkeäeF-I

- 2. Explain various methods for determining the trend in time series.  
ekäameer keäeue BeSeer cell/ŠÜ keäs %eele keaj ves DeUejeä e#eeDeUee keäe JeCete keäepeS-
- 3. Define various price index numbers along with their formulae. Discuss the points that should be taken into account while constructing a price index number.  
e#ee/e#e keäecele meÜeäeäeell/keäs Gvekeä me#eeWmeen/le heej Yeekele keäepeS- ceUe meÜeäeäe keär meaj Üevee n#egGve e#eevöDeell/keäe JeCete keäepeS epeve hej e#eUeej DeeJemÜeäe nesre nQ

Unit-II / FkeäeF-II

- 4. What do you understand by scaling of scores on a test and why is it required?  
hej e#eCe keä mkeäej e#e keäe cevekeäkeaj Ce mes Deeh kebilee mecePeles nQ
- 5. Describe the linear model used in educational tests. Using it, deduce the important properties of parallel tests.  
Mee#ekeä hej e#eCeell/ceB DeUejeä nesre Jeeues j mKeäe ö#ee®he keäe JeCete keäepeS- Fmekeäe GheUeeie keaj les n#es meceveev/lej hej e#eCeell/keäe ö#ee®he ö#ee®he keäepeS-