

(4)

Unit-III / FkæF-III

6. (a) Explain the terms 'General Fertility Rate', 'Age-Specific Fertility Rate' and 'Total Fertility Rate'.

'mæceevÙe ðepeveve oj', 'DeeÙegedÙmese ðepeveve oj' leLee 'keäue ðepeveve oj' keäe JeCeÙe keäæpæS-

(b) Describe 'Infant Mortality Rate'. Give its formulas.

'veÙepeele ceÙÙegoj' keäe JeCeÙe keäæpæS- Fmekæ meÙe ebæpæS-

7. Describe various columns in a life table. Discuss its construction and uses.

peæÙeve-mej Ceer keä eÙeeÙe mÙecÙeeÙÙkeäe JeCeÙe keäæpæS- Fmekææ jÙeeve leLee GheÙeeÙeÙee keäer ðeÙeeÙee keäæpæS-

Unit-IV / FkæF-IV

8. Explain in detail \bar{x} -R and \bar{x} -σ charts. What purpose do they serve?

\bar{x} -R Deeji \bar{x} -σ meÙeÙeeÙÙkeäe JeCeÙe ðemÙeej heÙeÙee keäæpæÙee Gvekeä GÙÙÙe keäee nP

9. Explain sampling inspection by attributes. Describe single sampling plan. How will you obtain its OC and ASN function?

ieÙeeÙÙÙee ðeÙeeÙee ðeÙeeÙee keäe meceÙeeÙee Skeäue ðeÙeeÙee ÙeeÙeeve keäe JeCeÙe keäæpæS- Fme ÙeeÙeeve keäe eS OC leLee ASN heäueÙeeÙÙkeäe Deehæ keäimeÙ ðeÙeeÙee keäe ðeÙeeÙee?

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((Printed Pages 4)

Roll No. _____

S-707

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

STATISTICS

Second Paper

(Applied Statistics)

Time Allowed : Three Hours] [Maximum Marks : 75

Note : Answer five questions in all. Question No. 1 is compulsory. Attempt one question from each unit.

keäue heäÙe ðeÙeeÙeeÙÙkeäe Gøej oæpæS- ðemÙe meÙ 1 DeäÙeeÙeeÙÙkeäe ðeÙeeÙeeÙÙkeäe FkæF & mes Skeä ðemÙe keäæpæS-

1. (a) Explain in short 'irregular fluctuations' in time-series.

keäue-BeCeer ceÙÙ'DeäÙeeÙeeÙÙkeäe GÙÙeeÙeeÙee' keäe ðeÙeeÙeeÙÙkeäe meceÙeeÙeeÙee

(b) Distinguish between seasonal variation and cyclic variation.

ÙeeÙeeÙÙkeäe SkeämeÙ FkæF & meÙkeäe ðeÙeeÙeeÙÙkeäe Ce keäe DevÙee meceÙeeÙeeÙee

(c) Distinguish between 'fixed base' and 'chain base' index numbers.

'efnÙeeÙÙkeäe DeäÙeeÙee' SkeämeÙ ðeÙeeÙeeÙÙkeäe meÙkeäeÙÙkeäe DevÙee keäe meceÙeeÙeeÙee

(2)

- (d) Discuss different types of scaling giving its purpose.
 ceevekeakraaj Ce kaã eelvelve ðekeãj ellkeãr GheJeesilee yeelees n\$
 mecePees-
 (e) State different methods of estimating reliability of a test.
 hej e#eCe keãr eelJemeveelilee kaã Deekãuvee keãr eelvelve eelDeJee
 keães euelkes-
 (f) Define reproduction rates. Give the formula for gross reproduction rate and net reproduction rate.
 hege™Theove oj keãr heej Yee-ee oeepeS~ keãue leLee Mege
 hege™Theove oj kaã meße euelkes-
 (g) Give different methods of finding Standardised Death Rates.
 ceevekeãkeãle ceUeg oj ðehle kaã ves keãr eelvelve eelDeJee
 oeepeS-
 (h) What do you understand by Statistical Quality Control technique?
 meeBKÙkeããle iegleee e#eUev\$eCe lekeãveekeã mes Deche keãle
 mecePees n\$
 (i) What are 'modified control chart's?
 'meMeesDele e#eUev\$eCe meUeße' keãle n\$
 (j) Differentiate between Producer's Risk and Consumers' Risk.
 Gheoekã peesKece Deej GheYeeããe peesKece celW j yeeFÙes-

(3)

Unit-I / FkeãF-I

2. What is trend? How is it determined? Discuss variate difference method specifying in particular its purpose and the underlying assumptions.
 Gheveele keãle n\$ ðen keãmes e#eUev\$eCe peele n\$ e#eUev\$eCe eelDe,
 e#eUev\$eCe™he mes Fmekeã GöMÙe leLee e#eUev\$eCe keãuhevveeDeelkeãe Guueke
 keãj les n\$, keãe JeCeele keãepeS-
 3. What do you mean by cost of living index number? Discuss the points which are taken into consideration while constructing a cost of living index number.
 peeleve e#eUev\$eCe meUeUeããe mes Deche keãle mecePees n\$ peeleve e#eUev\$eCe
 meUeUeããe keãr jÙevee keãj les meceUe e#eUev\$eCe henu#eUev\$eCe UÙevee
 e#eUev\$eCe peele n\$ Gvekeãr e#eUev\$eCe keãepeS-

Unit-II / FkeãF-II

4. Define parallel tests and discuss their properties. How will you test the statistical hypothesis that tests are parallel?
 meeceveevle j hej e#eUev\$eCe keãr heej Yee-ee oeepeS Deej Gvekeã ðeiegellkeãe
 e#eUev\$eCe keãepeS~ meeBKÙkeããle heej keãuhevvee keã hej e#eUev\$eCe meeceveevle j
 neves keãr peesse keãmes keãj les?
 5. Explain biserial and point biserial correlation coefficients. Give their uses.
 e#eUev\$eCeã SJeãevogã e#eUev\$eCeã menmcyevÙe iegceããellkeãesmecePeesFÙes
 Fvekeãr GheJeesilee Yeer oeepeS-