



- Notes : 1. All questions carry equal marks.
2. Solve **any five** questions minimum one question should be from each section.

SECTION – A (Theory)

1. Explain the decision making theory under risk and certainty and utility. **16**
2. What do you understand by statistical quality control? Explain the characteristics and types of quality control. **16**
3. Describe in brief, the different methods of measuring 'Trend' in analysing time series stating its merits of each. **16**

SECTION – B (Problems)

4. Calculate co-efficient of correlation between marks in Financial Accounting & marks in STBM obtained by 70 students of B. Com. I. **16**

Marks in STBM	Marks in Financial Accounting				
	25	35	45	55	65
25	---	---	---	1	1
35	---	---	3	8	7
45	---	2	6	13	9
55	1	5	3	4	---
65	2	3	2	---	---

5. Following table shows the association among 1000 school boys between their general ability & their Mathematical ability. Calculate co-efficient of contingency. **16**

Mathematical Ability	General Ability		
	Good	Fair	Poor
Good	44	22	4
Fair	265	251	178
Poor	41	91	98

6. Following are the marks obtained by 492 candidates in a certain examination. **16**
 Not more than 40 marks – 210 candidate
 Not more than 45 marks – 253 candidate
 Not more than 50 marks – 307 candidate
 Not more than 55 marks – 381 candidate
 Not more than 60 marks – 413 candidate
 Not more than 65 marks – 492 candidate
 Find out the No. of candidate
 i) Who secured more than 48 but not more than 50 marks.
 ii) Less than 48 but not less than 45 marks by applying Newton's method.

7. A Survey was conducted in respect of marital status & success in examination out of 2000 person who appeared for an examination 80% of them were boys & rest were girls. Among 300 married boys 140 were successful. 1100 boys were successful among unmarried boys. In respect of 100 married girls 40 were successful 200 unmarried girls were successful. Construct two separate Nine Square table & find out co-efficient of association to discuss the association between marital status & passing of examination. **16**
8. Following table gives the yield of 4 plots each of three varieties of wheat. Find out the variety difference are significant. **16**

	Yield				Total
A	26	27	28	31	112
B	18	19	21	22	80
C	16	18	19	19	72
					264

Table value of $f = 33.6$

M.Com.(with Credits)-Regular-Semester 2012 Sem. III
MCOM231 - Statistical Techniques

Time : Three Hours

Max. Marks : 80

- सूचना :- 1. सर्व प्रश्नांना समान गुण आहेत.
2. प्रत्येक विभागातून किमान एक प्रश्नासह एकूण पाच प्रश्न सोडवा.

विभाग 'अ'

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| 1. | निश्चितता आणि उपयुक्तता याच्या जोखिमेबाबत निर्णयाचा सिध्दांत विशद करा. | 16 |
| 2. | सांख्यिकीय गुणवत्ता नियंत्रण यापासून आपणास काय अर्थबोध होतो? सांख्यिकीय गुणवत्ता नियंत्रणाची वैशिष्ट्ये व प्रकार विशद करा. | 16 |
| 3. | कालमालांच्या विश्लेषणात प्रवृत्ती मापणाच्या विविध पद्धतींची त्याच्या गुणासह थोडक्यात माहिती लिहा. | 16 |

विभाग 'ब'

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|----|------------------------|----|
| 4. | इंग्रजी माध्यमाप्रमाणे | 16 |
| 5. | इंग्रजी माध्यमाप्रमाणे | 16 |
| 6. | इंग्रजी माध्यमाप्रमाणे | 16 |
| 7. | इंग्रजी माध्यमाप्रमाणे | 16 |
| 8. | इंग्रजी माध्यमाप्रमाणे | 16 |

M.Com.(with Credits)-Regular-Semester 2012 Sem. III
MCOM231 - Statistical Techniques

Time : Three Hours

Max. Marks : 80

- सूचनाएँ :-
1. सभी प्रश्नों के अंक समान हैं।
 2. हर एक विभाग से **किमान एक** प्रश्न के साथ **कुल पाँच** प्रश्न हल कीजिये।

विभाग 'अ'

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| 1. | निश्चितता एवं उपयुक्तता इनके जोखिम के बारे में निर्णय का सिद्धांत विशद कीजिये। | 16 |
| 2. | सांख्यिकीय गुण नियंत्रण से आपका क्या आशय है? सांख्यिकीय गुण नियंत्रण की विशेषताएँ एवं प्रकार विशद कीजिये। | 16 |
| 3. | कालमालाओं के विश्लेषण में प्रवृत्ति मापन की पद्धतियों का उसके गुणों के साथ वर्णन कीजिये। | 16 |

विभाग 'ब'

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|----|---------------------------|----|
| 4. | अंग्रेजी माध्यम के अनुसार | 16 |
| 5. | अंग्रेजी माध्यम के अनुसार | 16 |
| 6. | अंग्रेजी माध्यम के अनुसार | 16 |
| 7. | अंग्रेजी माध्यम के अनुसार | 16 |
| 8. | अंग्रेजी माध्यम के अनुसार | 16 |
