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Total No. of Pages : 03

Total No. of Questions : 09

B.Sc.(Agriculture) (2014 & Onwards) (Sem.-4)

BASIC STATISTICS

Subject Code : BSAG-409

M.Code : 72761

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q1. Write briefly :

- a) Standard deviation
- b) Exhaustive events
- c) Chi-square Test
- d) Types of correlation
- e) Assumptions of F-test
- f) Probability
- g) Kurtosis
- h) Type I error
- i) Level of significance
- j) Null Hypothesis



SECTION-B

Q2. A bag contain 5 black, 3 white and 2 red balls. In how many ways can :

- a) 3 balls be drawn
- b) 3 black balls be drawn

Q3. Daily income of ten families of a particular place is given below : Find geometric mean and harmonic mean.

85, 70, 15, 75, 500, 8, 45, 250, 40, 36

Q4. Calculate coefficient of correlation by Karl Pearson's method, Spearman's Rank Correlation and its testing from the following data.

X	6	2	10	4	8
Y	9	11	6	8	7

Q.5. To verify whether a course in accounting improved performance a similar test was given to 12 participants both before and after the course. The original marks were recorded in alphabet order.

Before Course	44	40	61	52	32	44	70	41	67	72	53	72
After Course	53	38	69	57	46	39	73	48	73	74	60	78

Q.6. What do you mean by Normal Distribution? Explain its properties in detail.

SECTION-C

Q7. An experiment was conducted on wheat with three experiments in four Randomized Block Design (RBD). The field plan and yield per plot in Kg are given in the following data. Analyze the data state the conclusion.

Treatment \ Blocks	I	II	III	IV
A	8	6	5	7
B	9	15	10	11
C	19	12	14	15

- Q8. a) What do you mean by Averages? Explain different types of Averages.
- b) Calculate Arithmetic mean, median and mode from the following frequency distribution :

Variable	Frequency	Variable	Frequency
10-13	8	25-28	54
13-16	15	28-31	36
16-19	27	31-34	18
19-22	51	34-37	9
22-25	75	37-40	7

- Q9. Define Statistics. Explain its uses and Limitations in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.