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ee (CCSS – Regular) (2014 Admn.)	Examination, No.	ovember 2014
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PART-B	er er	
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	ee (CCSS – Regular) (2014 Admn.) Iementary Course: PART – A carries ½ mark. ne variability in the size used to test certain hyp ionship between rainfal ete series under direct n PART – B Each carries 1 mark. s. f measurement? an average?	tionship between rainfall and the yield of a certain hypotheses regarding of the series under direct method =



PART-C

Answer any six questions. (Not exceeding one page) Each carries 3 marks.

- 11. Discuss importance of statistics in modern business.
- 12. What are the objectives of sample investigation?
- 13. Define Average. State its functions.
- 14. Explain merits and demerits of average deviation.
- 15. A welfare organisation introduced an education scholarship scheme for the school going children of a backward village. The rates of scholarship were fixed as given the following table:

Age Group (in completed year)	Amount of scholarship per month (in Rs.)		
5 – 7	30		
8 – 10	40 WE Guiller		
11 – 13	50		
14 – 16	Ortielly ine in 60 in sevice of		
17 – 19	B-70A9		

The ages of 30 school going children were noted as 11, 8, 10, 5, 7, 12, 7, 17, 5, 13, 9, 8, 10, 15, 7, 12, 6, 7, 8, 11, 14, 18, 6, 13, 9, 10, 6, 15, 13, 5 years respectively, calculate mean and S.D. of monthly scholarship.

16. Given below are the prices of 5 items in 1985 and 1990. Compute the simple price index number of 1990 taking 1985 as base year. Use (a) arithmetic mean and (b) Geometric mean.

Items	Price in 1985 (Rs./Unit)	Price in 1990 (Rs./Unit)
1	15	20
2	45,48850,52,40	ollowir 7) values
3	200	300
(4) 4	60	110
5	100	130



- 17. Expenditure of a family on 3 items are in the ratio 2:5:3. The prices of these commodities rises by 30 per cent, 20 per cent, 40 per cent respectively. By what per cent has total expenditure increased?
- 18. The mean age of a group of 100 persons (grouped in intervals 10 –, 12, etc.) was found to be 32.02. Later it was discovered that age 57 was misread on 27.
 - a) Find the corrected mean.
 - b) What do you mean by Arithmetic mean of Grouped Data?

 $(6 \times 3 = 18)$

PART-D

Answer any two questions. Each carries 8 marks.

- 19. Explain statistical methods.
- 20. Construct Fisher's indices from the following data:

Item	2010		2011	
	Price (Rs.)	Expenditure (Rs.)	Price (Rs.)	Expenditure (Rs.)
1	10	60	15	75
2	12	120	15	150
3	18	90	27	81
4	8	40	12	48

21. Find the quartile deviation, percentile deviation and their coefficients from the following data:

Age (in years): 15 16 17 18 19 20 21

No. of Students: 4 6 10 15 12 9 4 (2×8=16)