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BOARD OF INTERMEDIATE & SECONDARY EDUCATION, SAKHIAL

SUBJECT: Statistics EXAM HSSC II/A 2022 CLASS: Ist Year
GROUP: _____ DATE: _____

(GENERAL INSTRUCTIONS FOR MARKING KEY)

G2 No2 :-

Award 2 marks for correct definition

of Part (i), (ii), (iii), (v), (viii), (ix),

For Part (iv)

$$D = X - 15 \quad n = 10 \quad \Sigma D = 25$$

$$\bar{X} = A + \frac{\Sigma D}{n} \quad (1 \text{ mark})$$

$$\bar{X} = 15 + \frac{25}{10} = 17.5 \quad (1 \text{ mark})$$

For Part (vi)

$$\text{mean} = 25 \quad \text{median} = 20$$

$$\text{mode} = 3 \text{ median} - 2 \text{ mean} \quad (1 \text{ mark})$$

$$\text{mode} = 3(20) - 2(25) = 10 \quad (1 \text{ mark})$$

For Part (vii)

$$X = 1, 2, 4$$

$$G.M = (X_1 \cdot X_2 \cdot X_3)^{\frac{1}{3}} \quad (1 \text{ mark})$$

$$G.M = (1 \times 2 \times 4)^{\frac{1}{3}} = (8)^{\frac{1}{3}} = 2 \quad (1 \text{ mark})$$

$$\text{For Part (ix)} \quad \Sigma P_{0000} = 1500 \quad \Sigma P_{0000} = 2040$$

$$P_{00} = \frac{\Sigma P_{0000} \times 100}{\Sigma P_{0000}} \quad (1 \text{ mark})$$

$$P_{00} = \frac{2040}{1500} \times 100 = 136 \quad (1 \text{ mark})$$

$$\text{Part (xii)} \quad P_{00}(\text{Fishy}) = \frac{\text{Laspyre} \times P_{00000}}{\Sigma 110 \times P_{00000}} = 112 \quad (1 \text{ mark})$$

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