

BOARD OF INTERMEDIATE & SECONDARY EDUCATION, SAHRAWAL

P-1013

SUBJECT: Statistics EXAM Inter and H²⁰ 22 CLASS: 2nd year
 GROUP: _____ DATE: 05-12-22 (13)

(GENERAL INSTRUCTIONS FOR MARKING KEY)

Q. No. 7(b) $\bar{X} = 25$, $N = 5$, $\alpha = 5\%$, $n = 20$
 (01 mark)

$H_0: \mu \geq 24$
 $H_1: \mu < 24$

$\alpha = 0.05$

$Z = \frac{\bar{X} - \mu}{\sigma/\sqrt{n}} \Rightarrow \frac{25 - 24}{5/\sqrt{20}} \Rightarrow \frac{0.1}{1.1181} \Rightarrow 0.894$
 (01 mark)

$Z_{0.05} = -1.645$
 Reject H_0 if $Z < -1.645$

$Z_{cal} = 0.894$
 do not Reject H_0 .
 (01 mark)

PREPARED BY

Sr.#	Name	Desig.	Institution	Mobile No.	Signature
1	FIATZ BASHIR	A.P	GIAC, Kanala Khund	0345-7544771	M. Hanif
2	M. Hanif Rana	A.P	Govt. Graduate College Sahrawal	03336304975	M. Hanif

RE-CHECKED BY

Sr.#	Name	Desig.	Institution	Mobile No.	Signature
1	Rana Usman Haider	AP	Govt. SWL	0333-690840	M. Hanif
2	Riaz Ahmed Khan	AP	"	0336-239447	M. Hanif