KISI-KISI YEAR 8 INFORMATICS NON PROGUL ICT

Chapter: Data Analysis

VLOOKUP • HLOOKUP • INDEX • MATCH • CHOOSE • Data Visualization

Academic Year 2026-2027 | Mid-Semester Examination (PSTS / STS)

Learning Objective: Students are able to access, process, and analyze data efficiently, structured, and systematically so that they can search, summarize, and visualize a set of data from everyday life situations using spreadsheet applications or manually/unplugged.

A. Distribution of Questions by Material and Cognitive Level

No.	Material	Indicator	LOTS	MOTS	HOTS	Total
1	VLOOKUP	Identify and apply the VLOOKUP function to search data in vertical ranges and return related values	4	7	3	**14**
2	HLOOKUP	Identify and apply the HLOOKUP function to search data in horizontal ranges and return related values	3	5	2	**10**
3	INDEX	Identify and apply the INDEX function to retrieve a value at a given position in a range	3	6	3	**12**
4	MATCH	Identify and apply the MATCH function to find the relative position of a value within a range	3	5	3	**11**
5	CHOOSE	Identify and apply the CHOOSE function to return a value from a list based on an index number	3	5	2	**10**
6	Data Visualization	Identify chart types and their uses; create, modify, and interpret charts/graphs from a dataset	4	6	3	**13**
	TOTAL		**20**	**34**	**16**	**70**

B. Provisions for Number, Type, and Difficulty Level of Questions

Question Type	Questions to Appear (Soal Keluar)			Total	Question Bank (Bank Soal)			Total
	LOTS	MOTS	HOTS		LOTS	MOTS	HOTS	
Multiple Choice	5	9	6	**20**	9	12	8	**29**
Complex Multiple Choice	4	3	3	**10**	6	6	6	**18**
Short Answer	0	10	0	**10**	0	18	0	**18**
TOTAL	**9**	**25**	**11**	**45**	**15**	**39**	**16**	**70**

C. Scoring Weight per Question Type and Level

Question Type	Level	No. of Qs	Weight/Q	Max Score
Multiple Choice	LOTS	5	1	5
	MOTS	9	1.5	13.5
	HOTS	6	2	12
Complex Multiple Choice	LOTS	4	1.5	6

	MOTS	3	2	6
	HOTS	3	2.5	7.5
Short Answer	MOTS	10	2	20
Essay / Long Answer	MOTS	3	5	15
GRAND TOTAL		**45**	–	**100**

D. Question Matrix (Matriks Soal)

TYPE	LEVEL	Exam Qs	Bank	Total Exam	Total Bank
Multiple Choice (Pilgan)	LOTS	5	9	5	9
	MOTS	9	12	9	12
	HOTS	6	8	6	8
	Total	**20**	**29**	**20**	**29**
Complex MC (Ceklist)	LOTS	4	6	4	6
	MOTS	3	6	3	6
	HOTS	3	6	3	6
	Total	**10**	**18**	**10**	**18**
Short Answer (Isian Singkat)	LOTS	0	0	0	0
	MOTS	10	18	10	18
	HOTS	0	0	0	0
	Total	**10**	**18**	**10**	**18**
Essay (Long Answer)	LOTS	0	0	0	0
	MOTS	3	3	3	3
	HOTS	2	2	2	2
	Total	**5**	**5**	**5**	**5**
True/False (Benar/Salah)	–	0	0	0	0
Categorized MC	–	0	0	0	0
Grand Total		**45**	**70**	**45**	**70**

Notes:

1. LOTS (Lower Order Thinking Skills): Remembering and Understanding
2. MOTS (Middle Order Thinking Skills): Applying and Analyzing
3. HOTS (Higher Order Thinking Skills): Evaluating and Creating
4. Materials are limited to: VLOOKUP, HLOOKUP, INDEX, MATCH, CHOOSE, and Data Visualization (Charts & Graphs).
5. Total question bank: 70 items. Number of questions appearing in the exam (Soal Keluar): 45 items (maximum score = 100).
6. Exam composition: approximately 20 Multiple Choice + 10 Complex Multiple Choice + 10 Short Answer + 5 Essay = 45 questions.
7. Soal / Exam Qs = Number of questions appearing in the exam; Bank = Number of items in the question bank.
8. Active question types: Multiple Choice (Pilgan), Complex MC (Ceklist), Short Answer (Isian Singkat), Essay. True/False and Categorized MC are set to 0.