

AGA KHAN UNIVERSITY EXAMINATION BOARD

HIGHER SECONDARY SCHOOL CERTIFICATE

CLASS XII

ALTERNATE TO PRACTICAL (ATP)

MODEL EXAMINATION PAPER 2021

Psychology Paper III

Time: 25 minutes Marks: 15

INSTRUCTIONS

1. Read each question carefully.
2. Answer the questions on the separate answer sheet provided. DO NOT write your answers on the question paper.
3. There are 100 answer numbers on the answer sheet. Use answer numbers 1 to 15 only.
4. In each question, there are four choices A, B, C, D. Choose ONE. On the answer grid, black out the circle for your choice with a pencil as shown below.

Correct Way		Incorrect Ways	
1		1	
		2	
		3	
		4	

Candidate's Signature

5. If you want to change your answer, ERASE the first answer completely with a rubber, before blacking out a new circle.
6. DO NOT write anything in the answer grid. The computer only records what is in the circles.
7. You may use a scientific calculator if you wish.

Note: Use the information in the given table to answer Q.1, Q.2 and Q.3.

Class Interval	Frequency	Class Mark	fx
20-29	09		
30-39	08	X	
40-49	03		Y
50-59	01		
60-69	04		
Total			

- The class mark at point X will be
 - 39.5
 - 34.5
 - 30.5
 - 29.5
- The value of fx at point Y will be
 - 120
 - 133.5
 - 147
 - 148.5
- The mean of the given data will be
 - 25.0
 - 33.2
 - 37.7
 - 42.2
- In drawing a frequency polygon, the values on y-axis represent the
 - frequency.
 - class mark.
 - values of fx .
 - class boundary.

Note: Use the information in the given table to answer Q.5, Q.6 and Q.7.

The following data are the marks awarded to students on their term assignment.

6	7	5	7	7	8	7	6	9	7
4	9	6	8	8	9	5	6	4	8

5. The CORRECT tally marks for this data will be

A.

Mark	Tally
4	II
5	II
6	III
7	III
8	III
9	III

B.

Mark	Tally
4	III
5	I
6	III
7	III
8	III
9	II

C.

Mark	Tally
4	II
5	III
6	III
7	III
8	II
9	II

D.

Mark	Tally
4	III
5	II
6	III
7	III
8	III
9	I

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6. The median of the given data will be

- A. 5.5
- B. 6
- C. 7
- D. 7.5

7. The mean of the given data will be

- A. 6
- B. 6.3
- C. 6.8
- D. 7

Note: Use the information in the given table to answer Q.8, Q.9 and Q.10.

Class Interval	Class Boundary	Class Mark	Frequency	Cumulative Frequency
51-58			11	
59-66	X		09	
67-74			12	
75-82		Y	14	
83-90			08	Z
91-98			16	

8. The class boundary at point X will be

- A. 58.5-65.5
- B. 58.5-66.5
- C. 59.5-65.5
- D. 59.5-66.5

9. The class mark at point Y will be

- A. 73.5
- B. 74.5
- C. 78.5
- D. 82.5

10. The cumulative frequency at point Z will be

- A. 08
- B. 44
- C. 54
- D. 70

Note: Use the information in the given table to answer Q.11, Q.12 and Q.13.

Class Interval	Class Boundary	Class Mark	Frequency
50-59	49.5-59.5		11
60-69	59.5-69.5	X	11
70-79	69.5-79.5		09
80-89	79.5-89.5		06
90-99	89.5-99.5		06
100-109	99.5-109.5		07

11. The class mark at point X will be
 - A. 59.5
 - B. 64.5
 - C. 69.5
 - D. 75.5
12. The median of the data using the formula $L + \frac{h}{f} [N/2 - C.F]$ will be
 - A. 72.83
 - B. 84.45
 - C. 89.54
 - D. 104.65
13. If the value of $\sum fx = 3785$, then the mean of the given data will be
 - A. 55.66
 - B. 75.7
 - C. 88.02
 - D. 99.5
14. In order to find the median of ungrouped data without using the relevant formula, the first step will be to
 - A. arrange the data in an ascending/ descending order.
 - B. calculate the sum of all the numbers in the data.
 - C. count the total number of data.
 - D. make a frequency table.

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15. Use the given table to answer the following question.

Class Interval	Frequency	Class Mark	fx
100-103	02		
104-107	11		
108-111	15		
112-115	11		
116-119	11		
Total			Z

The value of $\sum fx$ at point Z will be

- A. 5000
- B. 5547
- C. 5550
- D. 5950

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