UPSHA JOINT MOCK EXAMINATION 2023
Primary Seven Mathematics

TIME ALLOWED: 2 HOURS 30 MINUTES

Index No.

	Random No.					Personal No.		

NAME:_____

SCHOOL:_____

SIGNATURE:_____ DISTRICT:_____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper is made up of two section **A** and **B**

2. Section A has 20 questions (**40 marks**) and Section B has **12** questions (**60 marks**)

3. Answer all questions in both sections A and B.

4. All answers must be written in the spaces provided in **BLUE** or **BLACK** ink. Only diagrams should be drawn in pencil.

5. Unnecessary crossing will lead to loss of mark

6. Poor handwriting, which can not be easily rea may lead to loss of marks.
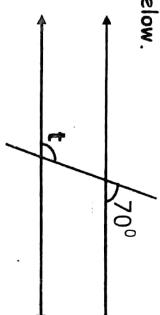
FOR EXAMINER'S USE ONLY

SECTION	SCORES	REMARKS
A		
B		
TOTAL		

Teacher's comment to the pupil

_____
_____
_____

UPSHA JOINT MOCK 2023

TURNOVER

SECTION A (40 Marks)

1	Workout: 16 + 23	2	**Find the next number in the sequence.** 2, 3, 5, 7, ____
3	Expand **645.7** using powers of ten.	4	Write **94** in Roman numerals.
5	**Find the value of t in the figure below.** 	6	Joan paid **Sh.5000** for **3** mangoes and **4** apples, the cost of each apple is **Sh.800**. Find the cost of each mango.
7	How many minutes are there in **2$\frac{1}{2}$** hrs?	8	Express $\frac{3}{5}$ as a decimal fraction.
9	Given that set **A** = {all letters of vowels}. Find **n (A)**	10	What number has been prime factorized to give **2^1 × 3^2 × 5^1**?

|	
11 Work out the median of **13, 7, 9, 15, 11** .	**12** Work out the value of P in the triangle below;
13 **Workout:** 1101_{two} + 111_{two}.	**14** Express **0.438kg** to grammes.
15 **Study the prism below and answer the question;** How many edges does it have?	**16** The Area of the square piece of land is **36m²**. Calculate it's perimeter.
17 Using a ruler, pencil and a pair of compasses only construct an angle of **105°**.	**18** John is **12**yrs old and Jane is **5**yrs older than John. Work out their total age.
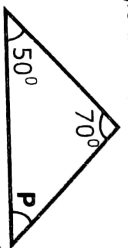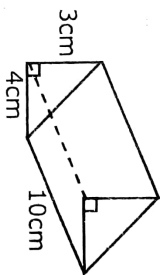
19	Write **24.85** in standard form.	20	Plot A(⁻**3**, ⁺**4**) on the grid below

Plot A(⁻**3**, ⁺**4**) on the grid below

y axis

```
      5
      4
      3
      2
      1
-5 -4 -3 -2 -1 0  1  2  3  4  5 → x axis
     -1
     -2
     -3
     -4
```

SECTION B (60 Marks)

21 a)	**Given that x = 5, y = 4.** Find the value of **2x - 2y.**	b)	**Solve:** 5(p + 3) – 5 = 25

(02marks)

(03marks)

22 In a village of **49** farmers, **20** farmer grow millet (**M**), **25** farmers grow beans (**B**) and **Y** farmers grow both millet and beans while **3y** farmers grow neither of the two food crops.

a) Use the above data to complete the Venn diagram.

n(Σ) = **49**

n(B) =   n(M) =
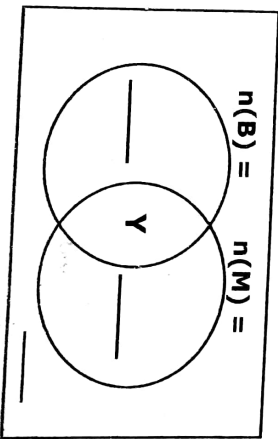
23 The figure below is a triangle ABC given that $\overline{BC}$ = 15cm, $\overline{AE}$ = 8cm and $\overline{AC}$ = 12cm. *(02marks)*

(01mark)
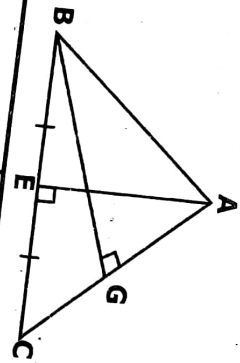
a) Find length $\overline{BG}$. *(02marks)*

b) Find perimeter of **AEC**. *(02marks)*

Workout out the **L.C.M** of **12** and **18**. *(02marks)*

b) Find the sum of prime numbers between **10** and **20**. *(02marks)*

25 Using a ruler, pencil and a pair of compasses only construct a triangle PQR where **PQ = 7cm**, angle **QPR = 120⁰** and angle **PQR = 30⁰**.

(04marks)

b) Measure length **PR**.

(01mark)

26 James is **4** times as old as Agnes. In **10** years' time, James will be twice as old as Agnes will be.

a) How old is James now?

b) How old will Agnes be then?

(03marks)

27 Study the prism and answer questions below.

6cm

a) Workout the volume of the prism.

(02marks)

b) Calculate the total surface area (TSA) of the prism.

(02marks)

28 Study the table carefully and answer the questions.

Marks	72	85	90	95	96
№ of pupils	4	12	1	4	5

a) Find the range of marks.

(01mark)

b) Work out the modal mark.

(01mark)

c) Calculate the mean mark of the pupils who scored above **85**.

(03marks)

29

a) Simplify: ⁻7 − ⁻4

(02marks)

b) If today is Friday, what day of the week will it be **69** day from today?

(03marks)

30
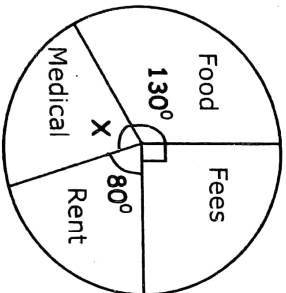
a) Arrange $\frac{3}{5}$, $\frac{2}{3}$, $\frac{1}{4}$ in descending order

(04marks)

b) Divide **0.24** by **0.008**.

(02marks)

31 A bus travelling at a speed of **80km/h** took $\frac{1}{2}$ **hrs**, moved from town **A** to town **B**. it the continued to town **C** at a speed of **120km/h** for **1½hrs.**

a) Calculate the total distance covered from town **A** to town **C**.

(03marks)

b) Workout the average speed of the bus for the whole journey.

(02marks)

32 **Study the pie-chart and answer the questions.**

a) Find the value of **x.**

(02marks)

b) If Bob spend **sh. 50,000** more on food than on rent. How much money does he earn per month.

(03marks)