**SPECIAL PRE-P.L.E EXAMINATIONS**

**P.7 MATHEMATICS**

***Time allowed: 2 Hours 30 minutes***

Candidates’ Name: .................................................................................................

Index No. Stream …………….

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| **SECTION A (40 MARKS)** | |
| 1. Add: 42 + 6 | 2. Solve for the unknown in the equation below: p + 3 = 10 |
| 3. Simplify: -4 - -5 | 4. Subtract 2x – 3 from 5x + 3 |
| 5. Express 50cm as a ratio of 1 metre. | 6. Find the 4th triangular number. |
| 7. A bag contains 8 red sweets and the rest are yellow. If the probability of picking a yellow sweet from the bag is , find the total number of sweets in the bag. | |
| 8. Find the value of x in the diagram below. | |
| 9. Factorise completely:  2xy – 4x | 10. John is XIV years old. Write the year he was born in Hindu Arabic numerals. |
| 11. In the figure below, find the value of k. | |
| 12. Find the diameter of a circle whose circumference is 88dm. | |
| 13. If set A has one proper subset, how many members does it have? | 14. Describe the shaded region in the Venn diagram below. |
| 15. How many degrees are in 3 revolutions? | |
| 16. Find the distance around the figure below. (Use ) | |
| 17. Find the least number of books that can be shared among 8 and 12 pupils leaving a remainder of 2 books. | |
| 18. Work out (12 3) – (6 3) using the distributive property. | |
| 19. An exam started at 8.45am and ended at 11.15am. How long did the examination take? | 20. Construct an angle of 300. |
| **SECTION B (60 MARKS)** | |
| 21. in a clas of 83 pupils. all of them like posho (P), 47 of them like Matooke (M), 40 like Rice (R), 2k like all the three types of food while 6 like only posho.  a) Represent the above information on the Venn diagram below. (2mks)    b) Work out the value of k. (2mks) | |
| 22. Mr. Bikopo gave of his money to the first son, of the remainder to the second born and the rest to the third born. If the third born got sh.18,000, find the amount of money Mr. Bikopo had. (6mks) | |
| 23. The sum of 3 consecutive odd numbers is 45.  a) Find the numbers. (3mks)  b) Find the range of the numbers. (1mk) | |
| 24. Peter went the market and bought the following items:  - 2kg of rice at sh.2,000 per kg.  - kg of meat at sh.10,000 per kg.  - 3 loaves of bread at sh.5,000 per loaf.  a) What was his total expenditure? (4mks)  b) If he went with sh.50,000, what was his balance? (2mks) | |
| 25. Mukasa deposited some money in a bank that offers an interest rate of 10% per annum for a period of 2 years.  If he withdrew all his amount of sh.120,000 at the end of the period, how much money did he deposit in the bank? (4mks) | |
| 26(a) Calculate the perimeter of the figure below. (3mks)    b) Calculate the length of arc AB. (2mks) | |
| 27(a) Solve 2(2p – 5) – 3(1 – p) = -6. (3mks)  b) Namukasa is 30 years old and Magezi is 14 years older than Namukasa. What is their total age? (2mks) | |
| 28. The exterior angle of a regular polygon is of the interior angle.  a) Find the size of the exterior angle. (2mks)  b) How many sides have the polygon? (2mks)  c) Calculate the interior angle sum of that polygon. (2mks) | |
| 29(a) Expand 3462 using values. (2mks) | |
| b) What is the place value of 4 in 46.23? (2mks) | c) Write 2478 in words. (2mks) |
| 30(a) Use a ruler, a pencil and a pair of compasses only to construct triangle ABC where AB = 4cm, angle CAB = 600 and AC = 5cm. (3mks) | |
| b) Measure BC (1mk) | |
| 31. The distance between town A and town B is 200km.  a) How long will a taxi moving at 100km/hr take to cover their distance?  (3mks)  b) If a tractor covered the journey in 4 hours, at what speed was it moving?  (2mks) | |
| 32. The graph below shows the number of pupils who were absent from school in a certain week.    a) How many pupils were absent on Tuesday? (1mk)  b) How many pupils were present on Friday? (1mk)  c) How many pupils were present on Monday? (1mk)  d) Hw many pupils were absent throughout the week? (2mks) | |

***\*\*\*\*\*GOD BLESS\*\*\*\*\****