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	EXAMINATION DATE: JU	NE 2021
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		SECTION A	
	ANSWER ALL 15	QUESTIONS IN THIS SECTION	
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3. Given a Deterr (a) TI (b) TI	In equation of a straight line $\frac{x}{2} + \frac{y}{4} = 1$ The gradient of the line	meets the y-axis	(4 mar)
3. Given a Determ (a) TI	In equation of a straight line $\frac{x}{2} + \frac{y}{4} = 1$ The mine the gradient of the line the coordinates of the point where the line	meets the y-axis	(4 mar)

for more past questrions, corrections and notes, download the app "kawlo" on playstore or visit http://www.gcerevision.com 4. Given the function $f(x) = x^2 - 4x + 3$. (a) the factors of f(x)Hence: (b) the roots of f(x)the value of x for which $M = Af^{T}$ (5 marks) 5. Draw the truth table for the compound statement $\sim (p \land q)$ (6 marks) (5 marks) 6. (a) an equation in terms of x and y Figure 1 Figure 1 shows a relation $P \rightarrow Q$ (a) State whether this is a one - one, one - many or many - one relation (b) Write down the Cartesian product P x Q of the sets P and Q, for which the relation is true (c) State the range of the relation (6 marks) Go to the next page here 2021/0576/2/C/Q Turn Over

7. Given the matrix $M = \begin{pmatrix} 1 & 2 \\ 1 & 2 \end{pmatrix}$	
7. Given the matrix $M = \begin{pmatrix} 1 & 2 \\ x-1 & x \end{pmatrix}$	is en the function . () = x - 4 + / 1 .
Find:	Then the transfer of the X = 1 + 4 ft.
(q) the transpose M^T ,	a) the factors of $f(x)$
\sim 0.0 1.11 \sim \sim 1.71 \sim 1.77	(7))
(b) the value of x for which $M = M^T$	
(https://doi.org/10.1011/10.10	
(c) using this value of x , find M^2	you the truth table in the aempound statement - (
(5 marts)	
8. Given that y is directly proportional to x and that $y = 24$ wh	$\operatorname{en} x = 3$,
Find:	\wedge
(a) an equation in terms of x and y	(1) +6)
(b) the value of y when x = 7	om(1 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
(b) the value of y when x = 7	11 () () ()
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Calculate	(c) angle m
(a) the value of an exterior angle	
***************************************	***************************************
(6 marl	
+51. where a is a constant,	12. Given the vectors $OF = (u+2)i+1$ and $OQ = 2ai$
(b) the number of sides of the polygon	(a) Find PQ in terms of a

In Figure 3. A.P. as a transition of the months in the manning in	***************************************
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(c) name the polygon.	
(8) 80	(6) Given that $PQ=3i+4j$, find the value of a
	(6 marl
10. Solve the inequality $-2(5-x) \le 4-5x$ and represent your solu	ation on a real number line
2 – 2 – 2 – 2 and represent your soit	and a real number line
	(c) Find [PQ] " "
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(c) the stivi. LS.B.	
(6 mari	(5 mark
240	13. (a) Draw a network with 4 region and 4 vertrees
Find the value of:	(b) From the network, find the number of arcs
Figure 2	(b) From the network, find the number of arcs

	in interior angle of a regular polygon is twice its exterior a)
	a) the value of an exterior angle	,
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		(6 mark
12. Given the vectors $OP = (a+2)i+j$ and $OQ = 2ai+$	5j, where a is a constant,	
(a) Find PQ in terms of a	and the second s	
	(b) the number of sides of the polygon	
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(b) Given that $PQ=3i+4j$, find the value of a	c) white the obligion.)
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(c) Find $ PQ $		
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13. (a) Draw a network with 4 region and 4 vertices	15	
(t)		
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(b) From the network, find the number of arcs	9/2	(6 marks
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(b) From the network, find the number of arcs	the value of.	bni-l m (a) ms (d)

	≥ SECTION B
CHIS SYCTIO L	ANSWER ALL FOUR QUESTIONS IN I
10 cm	EACH QUESTION CARRIES IS
ay. She made a world per tucket for each item	I. Miriam sold Rice, Beans, Corn and Garri in buckets on a partic far the
6 cm	Mirram sold idee, beins, Con and Carr in baseling sold as follows:
find farri was Q of the profit for Rice.	C
30cm	Rice: 600 FCFA, Beans: 500 FCFA, Comb 300 FCFA & the profit
Figure 3	birt
In figure3, ABC is a triangle in which BD	is a perpendicular to AC. Given that AC = 30cm,
AB = 10cm and $AD = 6$ cm. and $C = 6$ cm.	(c) the phore the profit she made on that day from selling. 4 ouckets of Ri
i ma.	and Almands of Garri.
(a) BD	Showsed $\frac{2}{-}$ of her profit for to buy fish:
	(d) Calculate the amount spent to buy fish.
	white militate and all tilling and transfer and a low side.
(b) DC	Find:
	(e) her taxi fare
	(f) the uniount saved.
(c) the angle DCB	2. (i) Given the function $f(x) = 5 + dx + \sqrt{1 + x^2} = x$
rain and and in the	
	Tuking Luman vers outs of the control of the contro
	With the state of
	(c) Determine the value(s) of x for which $x^2 - 4x - 5 = 0$
. Given that the events A and B are mutually ex	
(a) State the condition for which A and B	are mutually exclusive $\frac{1}{1}$ is defined on \mathbb{R} , the set of $\frac{1}{1}$ motion \mathbb{R} (ii) A function $f(x) = \frac{1}{1}$ and $f(x) = \frac{1}{1}$ are $f(x) = \frac{1}{1}$ and $f(x) = \frac{1}{1}$ are $f(x) = \frac{1}{1}$ and $f(x) = \frac{1}{1}$ are $f(x) = \frac{1}{1}$ and $f(x) = \frac{1}{1}$ and $f(x) = \frac{1}{1}$ are $f(x) = \frac{1}{1}$.
a comment and affirm	
	Given that (x^{-2}) is a factor of $f(x)$.
Hence:	(a) Find the values of a and b
Given that $P(A) = \frac{1}{A}$ and $P(B) = \frac{3}{A}$, find:	(b) Factorize / (x) completely
(b) $P(A \cup B)$	III TO THE LAND HERESTE
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Section 1 and Section 1	a four compare subjects transmission. In the advantagement
(c) P(A ^c)	t star - there as years to the consensu. In consensus
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SECTION B

ANSWER ALL FOUR QUESTIONS IN THIS SECTION. EACH QUESTION CARRIES 15 MARKS

Miriam sold Rice, Beans, Corn and Garri in buck sold as follows:	kets on a particular day. She made a profit per bucket for each item
	FCFA and the profit for Garri was of the profit for Rice.
Rice: 600 FCFA, Beans: 500 FCFA, Com. 500	TCTA and the profit for Start mod 3
 (a) the profit per bucket of Garri on that day. (b) the ratio of the profit per bucket of Rice and (c) the total profit she made on that day from se and 4 buckets of Garri. 	Higher ABC is a triangle in which BD is a perpelblost floring, 4 buckets of Rice, and 2 buckets of Beans, 5 buckets of Corn thinks.
She used $\frac{2}{5}$ of her profit for to buy fish;	(a) BD
(d) Calculate the amount spent to buy fish.	
She used $\frac{1}{12}$ of the remainder of her profit f	For her taxi fare and saved the rest;
Find: (e) her taxi fare (f) the amount saved.	(b) DC
 (i) Given the function f(x) = 5+4x-x², (a) Construct a table of values of y against x for Taking 2cm to represent I unit on the x-axis (b) Draw the graph of y = f(x). From your graph: (c) Determine the value(s) of x for which x²-x² (d) Find the gradient of the curve at the point (x²-x²) (ii) A function, f, is defined on R, the set of reaction f(x) = x³ + 2x² + ax + b . When f(x) is different forms of the curve at the point (x²-x²) is a factor of f(x), (a) Find the values of a and b (b) Factorize f(x) completely 	4x-5=0 4, 5). Giving your answer to 1 decimal place. Solution that the events A and B are mutually exclusive by State the condition for which A are B are mutually exclusive.
	(b) P(AUB) (c) P(A')
(5 marks)	
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for more past questrions, corrections and notes, download the app "kawlo" on playstore or visit http://www.gcerevision.com 3. Write on both sides of this pa Do not write on margin 10 Figure 1 Figure 1 is a Venn diagram showing 50 students in boarding school who ate Rice (R) and Garri (G) for lunch on a (i) particular day. All the students ate either Rice or Garri or both. (a) the number of students who ate Rice (b) the value of x Describe: (c) In ordinary English the region with the value 17. In set notation (d) the number of students who ate both Rice and Garri (e) the region with no student. Using ruler, pencil and a pair of compasses only, (ii) (a) Construct a triangle PQR in which PQ=10cm, QR=9cm and PR=7cm. (b) Construct the bisectors of angles PQR and PRQ. (c) Mark the point M, where the bisectors meet. (d) Construct a circle with centre M such that PQ, QR and PR are tangents to the circle (e) Measure and write down the radius The table below shows the results of candidates who wrote the ordinary level examination in a certain school 9 10 11 8 3 4 5 6 0 No of subjects passed 2 8 3 21 20 10 6 3 10 No of candidates passed (a) State the mode Find: (b) the total number of candidates that sat for the examination. (d) the mean number of subjects passed, giving your answer to the nearest whole number Given that a candidate who passed in four or more subjects has passed the examination, Find: (e) the number of candidates who passed the examination (f) the probability that a candidate chosen at random passed the examination (g) Calculate the percentage pass to one decimal place Turn Over Jurne 2021/05 18/2/C/C June 2021/0570/2/C/Q

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