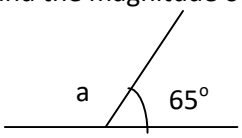
PROVINCIAL EDUCATION DEPARTMENT

NORTHERN PROVINCE

PLACEMENT EXAMINATION – 2021

GRADE 9 **MATHEMATICS** **TWO HOURS**

01	If the price of a face mask is Rs.15, Find the price of 20 face masks
02	Simplify: 15.9 + 6.4
03	Write the shaded part as a fraction of whole in the given figure
04	Write the next two terms of the given number pattern 19,16,13,…….. , ……..
05	Fill in the empty cage 20:25 = ☐ : 5
06	Remove the bracket and Simplify: 2(x+3) – 5
07	Find the magnitude of **a** in the given figure 
08	Add: 110_{two} + 111 $_{two}$
09	If (x+3) (x+4) = x^2+ax+b , Find the suitable values for a and b a= b=

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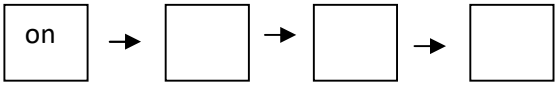
10	Give 7.5 % as a fraction in the simplest form
11	Write the given numbers in scientific notation a) 16.3 b) 0.012
12	Indicate the order in which the keys need to be pressed to obtain the value of 9^2 in scientific calculator 
13	A cuboid shaped container of length 25 cm ,width 15 cm and height 20 cm is filled with a liquid. Find the volume of the container in cubic centimeter
14	When a certain number is rounded off to the nearest 10 , the number 90 is obtained. Find the least and greatest value this number can take separately
15	Solve: 8 – y = 6
16	If $\mathbf{1\frac{1}{3}} \times \boldsymbol{a} = \frac{4}{7}$ .Find the value of **a**
17	Evaluate : $\frac{\mathbf{3^{-2}}}{\mathbf{5^{-2}}}$
18	Find the value of **2a+b** when a =2, b=(-3)
19	If 256 x56=14 336, Find the value of 2.56 x5.6 without multiply

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20	A printer makes 480 copies in 10 minutes. Determine the number of copies it makes in 8 minutes

(20x2=20Marks)

Part II

Answer only Five questions.

01)	Consider the number pattern with the general term Tn=5-2n i) Write the first three terms of this number pattern ii) Find the 15^{th} term iii) which term is (-63) iv) Show that (-200) is **not a term** of this number pattern (3+2+3+4=12 Marks)
02)	**a)** Simplify i) $4\frac{3}{7}-\frac{3}{14}$ ii) $\frac{1}{2}+\frac{2}{3}\times\frac{5}{6}$ iii) $\left(3\frac{1}{2}\div 1\frac{1}{3}\right) of\ \frac{5}{14}$ b) Karan decided to grow brinjal in $\frac{1}{4}$ of his land and chilli in $\frac{1}{5}$ of the remaining portion. Then he decided to grow tomato in the remaining portion i) Find the fraction of the portion which grown by chilli as whole ii) Find the fraction of the portion which grown by Tomato as whole (2+3+3+2+2=12 marks)
03)	Construct the given using a pair of compass and the straight edge i) Draw a straight line XY of the length 6 cm. ii) Construct an angle of 60 ^{o} at Y such that XY is an arm iii) Construct a perpendicular to XY through X iv) Produce the constructed lines so that they intersect. Name their point of intersection as Z and form the triangle XYZ. v) Construct the perpendicular bisector of XZ and name the points it intersects XZ as T and ZY as Q vi) Measure and write the length of TQ (2+3+2+1+2+2=12Marks)
04)	**a)** Solve **i) x+8 = 14ii)** $\frac{3a}{4}-6=3$ **iii)** $\frac{1-y}{3}+\frac{y}{2}=\frac{1}{2}$

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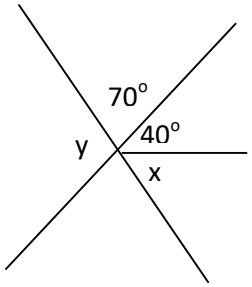
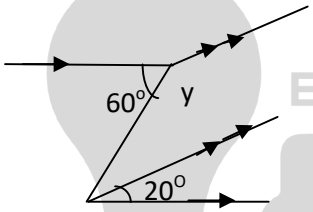
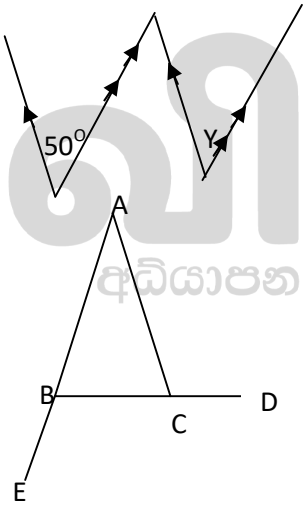
	b) The sum of two positive numbers is 28.Differece between them is 2.By taking the two numbers are x and y. Construct a pair of simultaneous equation and solve them. (2+2+3+5=12 Marks)
05)	**a)** Expand and Simplify i) (x+6)(x-5)ii) (a-2) (a-3) b) Factorize i) $\mathbf{a^2 - 1}$ii) $\mathbf{98-2y^2}$ c) Find the value of **2a-5b** when $\mathbf{a=\frac{1}{2}}$,$\mathbf{b=(-\frac{1}{3})}$ (3+3+2+2+2 =12 Marks)
06)	a) Find the value of x and y in the given figure  a)Find the value of y of the given figures i)  ii)  a) b)$IF C\hat{B}E = A\hat{C}D, Show\ that\ A\hat{B}C = A\hat{C}B$ (AE And BD are straight lines) (4+4+4=12Marks)
07)	a) A vendor earns 15% by selling a dining table at the price of Rs 69 000.Find the price at which the vendor bought the dining table b) If a commission of 4% is given when a land is sold .what is the commission given for a land value of Rs 4000000. c) Kala and Mala started a business investing Rs 1500000 and 2000000 respectively. At the end of the year they shared the profit of Rs 420 000 according to their investment i) Find the profit sharing ratio in the simplest form

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	ii) Find the profit received by each person (3+3+2+4=12 Marks)	

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