	Provincia N Second T	ion										
Grade - 1	0	32 T I		Time	e:- 2.00 hours]						
Index No : Supervisor Signature : Instructions												
✤ Write y	your index number corre	ectly.										
To use	the under space Part IA	, IB question	s get answer	method.								
✤ Answei	r the all questions must	be done part	IA &IB.									
 Not allowed to get out the answer sheet from the exam hall after the examination. Education Important Examiner use only Part Question 												
	art IA has 25 questions		ΙΑ									
	ach has 2 marks totally 0 marks given.			1 - 25	0109)							
	-			1								
Part I B has 5 questions each has 10 marks total			r	2								
> 5	0 marks		ΙB	3								
				4								
	Marking examiner			5								
	••••••		Total									
	Cross examiner											
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		I				J						



- 10) If two coordinates of a straight line are (6, 2) and (4, 3) find the gradient of the straight line.
- 11) A and B are two sets where $n(A) n(A \cap B) = 11$ and $n(A \cup B) = 29$ Find the value of n(B)?
- 12) Factorize ax by bx + ay
- 13) If $a^2 = xy$, a = 6 and x = (-4), find the value of y.
- $(4) \qquad Education \qquad for each of the second s$

In the given figure $A\hat{B}C = 68^{\circ}$ and $D\hat{C}E = 32^{\circ}$, Find the magnitude of $\hat{A}C$.

15) Solve: $2x^2 = 6x$ 16) A In the given figure AB = AC, Find the value of $B\hat{A}C$. Maths 3 Grade - 10





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Part - I B

Answer all questions

- 01) From a certain school where the students learnt from Grade 6 to 11 is given below. $\frac{1}{5}$ was Grade 6 and 7 students, $\frac{3}{10}$ of remaining students was Grade 8 and 9, and the rest was Grade 10 and 11.
 - (i) What fraction of total students was Grade 8 and 9?
 - (ii) What fraction of total students was Grade 10 and 11?
 - (iii) If the students who learnt in Grade 10, 11 was 140, find the total number of students?
 - (iv) If the ratio between Grade 10 students and Grade 11 students is 3 : 2, calculate the number of students who learnt in Grade 11?
- 02) In the figure contains a rectangle PQRS, a quarter circular and a semicircular sector



- (i) Calculate the area of shaded region.
- (ii) If the area of *PQBARSP* is 7 times the area of shaded region,
 - (i) Find the length of PQ.
 - (ii) Find the perimeter of *PQBARSP*.
- 03) The assessed annual value of a certain house is Rs 50000. The monthly rent charged by owner is Rs 4000. The relevant provincial council charges 6% of the assessed annual value of the house as rates. Owner has to spend 16 % of the rent on maintenance.
 - (i) Calculate the rates that have to paid for a year?
 - (ii) Calculate the annual rent of this house?
 - (iii) How much of the rent is owner left at the end of the year, after the relevant expenses are met?

- 04) The pie chart given below illustrates the information gathered from the members of a sports club regarding the sport they like most.
 - (i) Find the value of x
 - (ii) If the number of members who like football is 36, how many members like Table tennis?
 - (iii) Find the total number of members are in this sports club.



- (iv) If 5 members who like football joined with this sports club further calculate the new angle of members who like cricket.
- 05) A distance time graph of the motion of a man who travels from his home to the city on his bicycle is given below.



- (i) How far is it from his home to the city?
- (ii) How long it take him to reach the city?
- (iii) Separately calculate the speeds at which he travelled from A to B, from B to C and C to D. In which path the speed is low Give reason?

			Provincia N Second T								
Gra	nde -	10		32 T II		Time:- 2.30	hours				
Part - II A											
Answer four questions.											
01)	01) Prepare a table of values with $-2 \le x \le 2$ to draw the graph of the function $y = 5 - 2x^2$.										
	(i) Draw the graph of $y = 5 - 2x^2$ using suitable axis.										
	(ii) Using the graph, find the roots of $5 - 2x^2 = 0$.										
	(iii) If the graph of the function $y = 5 - 2x^2$ moves upwards along the y axis by 3 units write the equation of the graph?										
02)	Education										
	paying Rs 6500. However he was only able to settle the loan in 5 years, at which he had to pay Rs 7500.										
	(i)										
	(i) (ii)		Find the loan obtained by him?								
	(iii)										
	. ,		Calculate the annual interest rate?								
03)			e of 3 Oranges and 4 are equal.	Apples is Rs 225	. The pr	ice of 7 Apples and	the price of 6				
	Oran	0	-								
	(i)		he price of an Orang ultaneous equations?		he price	of an Apple is Rs.	y, make two				
	(ii)	Fine	d the price of an App	le and an Orange b	oy solvin	g equations?					
	(iii)		A person who bought 10 Oranges and some Apples and paid Rs 500 note, How many apples where he bought?								



Part - II B

Answer four questions.

- 07) From a group of 60 students in a class, 50% like to listen to the radio and don't like to watch TV, 40% like to watch TV and 8 student like to listen to the radio.
 - (i) Represent this information in a Venn diagram.
 - (ii) How many of the students don't like both activities?
 - (iii) How many of the students like only to watch TV?
 - (iv) How many of the students like only one of these two activities?

08) In the given tringle *ABC*, the perpendicular drawn from the verticies from C and B to the sides AB and AC are CD and BE respectively and CD and BE meet at T. If BD = CE

- (i) Show that $\triangle BDC \equiv \triangle BEC$
- (ii) Prove that, $\triangle ADE$ is an equilateral triangle
- 09) In the given parallelogram *ABCD* diagonals *AC* and *BD* are meet at *O* and *E* and *F* are two points on *AC* where AF = CE.

B

D

E

С

Т

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- (i) Show that EO = FO
- (ii) Show that *DEBF* is a parallelogram.



ONLINE CLASSES - 2025 WEW ADMISSIONS 20 தவனை வகுப்புகள்

தரம் 6 முதல் O/L வரை

அனைத்து பாடங்களும் ஒரே கல்வி நிறுவனத்தின் கீழ் ...







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