

රාජකීය විදුහලය - කොළඹ **07** Royal College - Colombo 07

අධිනයන පොදු සහතික පතු (උසස් පෙළ) විභාගය General Certificate of Education (Adv. Level)Examination

12 ශේණිය - පුථම චාර පරීක්ෂණය 2018 නොවැම්බර් Grade 12 First Term Test November 2018

Time:  $1 \frac{1}{4}$  hours

	. 4
	Combined Mathematics - II
Name	/ Index No
•	Answer all questions in the part $A$ and two questions in the part $B$ .
	Part A
1.	Two forces $P+Q$ and $P-Q$ are acting on a particle with an angle $2\alpha$ . Their resultant
1.	D tan a
	makes an angle $\theta$ with angle bisector. Show that $\frac{P}{Q} = \frac{\tan \alpha}{\tan \theta}$ .
2.	Show that, altitudes of any triangle are concurrent using dot product.

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අධ්‍යයන පොදු සහතික පතු (උසස් පෙළ) විභාගය General Certificate of Education (Adv. Level)Examination 12 ශේණිය - පුථම චාර පරික්ෂණය 2018 නොවැම්බර් Grade 12 First Term Test November 2018

## Combined Mathematics - II

Answer all questions in the part A and two questions in the part B.

#### Part B

- 5. a) If a particle is moving at uniform acceleration describes successive equal distances in consecutive times  $t_1$ ,  $t_2$ , and  $t_3$  respectively. Prove that  $\frac{1}{t_1} \frac{1}{t_2} + \frac{1}{t_3} = \frac{3}{t_1 + t_2 + t_3}$  using kinematic equations.
  - b) A train normally travels from station A to station B with a steady speed V. On a rainy day, the train starts the motion from rest at station A accelerates with  $f_1$  and attains the velocity u. Then moves with that constant velocity for T time duration and then retardates with  $f_2$  and comes to rest at B.
    - i) Draw velocity time graphs to illustrate the two different motions of the train in the same grid.
    - ii) Hence show that the train will take  $u \left[ \frac{1}{f_1} + \frac{1}{f_2} \right] \left[ \frac{2V u}{2V} \right] + T \left[ \frac{V u}{V} \right]$  an excess time to reach the station B.
    - iii) If the maximum velocity acquired by the train in rainy day  $\frac{4V}{3}$ ,  $f_1 = f_2 = f$  and  $T = \frac{8V}{3f}$ , then show that the train will reach the station B on time.

- 6. (a) In a rectangle OABC, OA = 2a and OC = a. Forces of magnitudes 2P, 2P,  $\lambda P$ ,  $\mu P$  are acting along sides  $\overrightarrow{OC}$ ,  $\overrightarrow{OA}$ ,  $\overrightarrow{AB}$  and  $\overrightarrow{BC}$  respectively. When OA and OC are in the directions of X and Y axes, the equation of the line of action of the resultant force is  $y = \frac{1}{3}x a$ .
  - i) Find the values of  $\lambda$  and  $\mu$ ,
  - i) If a couple of magnitude G is added to the system of forces which is acting in the same OABC plane, then the equation of the line of action is 3y x + 8a = 0. Find the magnitude of the couple and sense.
  - b) A hemispherical bowl of radius a is kept on a horizontal floor. A uniform rod AB is kept inside it while end B is touching the edge of the rim of the hemispherical bowl and the other end A, which is on the curved surface. The system is in equilibrium with the rim of the hemisphere making an angle  $\alpha$  with downward vertical and the normal reaction force at A makes an angle  $\beta$  with upward vertical. Show that the length of a rod is  $4a \sin \beta \sec \left(\frac{\alpha \beta}{2}\right)$ .
- 7. a) The position vectors of X and Y with respect to O are x and y. If a point Z lies on XY such that  $\frac{XZ}{ZY} = \frac{\lambda}{\mu}$ . Then show that the position vector of Z is,  $\overrightarrow{OZ} = \frac{\mu x + \lambda y}{\lambda + \mu}$

The position vector of three non-collinear points A, B, and C are a, b and a + b respectively. Four points D, E, F and G divides the sides OA, OB, AC and BC such that

$$\frac{OD}{OA} = t_1$$
,  $\frac{OE}{OB} = t_2$ ,  $\frac{AF}{AC} = t_3$ ,  $\frac{BG}{BC} = t_4$ . Also, M divides DG such that  $\frac{DM}{MG} = \frac{t_5}{1 - t_5}$  DG and EF are interest at M.

Using the vectors  $\overrightarrow{OG}$  and  $\overrightarrow{OD}$  prove that the position vector of M is  $[t_5(t_4-t_1)+t_1]a+t_5b$ 

Also obtain another expression for  $\overrightarrow{OM}$ 

Hence deduce that 
$$t_5 = \frac{t_2 + t_1(t_3 - t_2)}{1 - (t_4 - t_1)(t_3 - t_2)}$$

b) The position vectors of A, B and C with respect to origin are given as follows. a = i + 2j + k, b = 2i + j - k and c = 3i + j + kFind the unit vector perpendicular to the plane ABC.

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අධනයන පොදු සහතික පතු (උසස් පෙළ) විභාගය General Certificate of Education (Adv. Level) Examination 12 ලේණිය - පළමු චාර පරීක්ෂණය 2018 ගොචැම්බර් Grade 12 First Term Test November 2018

Combined Mathematics - I

#### Answer any two questions

#### Part B

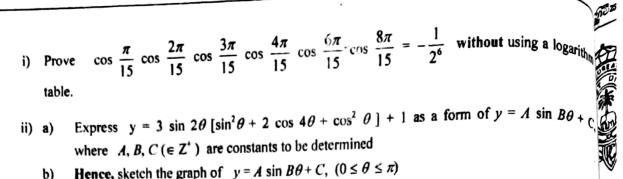
- a) ABCD is a quadrilateral with the length of its diagonal BD is  $\sqrt{10}$  units. It is given that B = (3, 1) and D = (t 1, t + 1). Where t is a parameter.
  - i) Obtain the value of a if the midpoint of BD has a form of  $T = \left(\frac{a}{2}, \frac{a}{2}\right)$  when the point D lies on y axes.
  - ii) If AD = AB then obtain the coordinate of A such that  $A = \left(\frac{b}{7}, \frac{b+1}{7}\right)$ , where b is a positive integer to be determined.
  - iii) If C is an image of A through BD then show that the coordinate of C can be written as  $\left(\frac{d}{7}, \frac{d-1}{7}\right)$ , where d is a constant to be determined.
  - iv) Prove that AC is the perpendicular bisector of BD. Further show that the area of quadrilateral ABCD is  $\frac{5}{7}$  square units and its perimeter  $\frac{20\sqrt{5}}{7}$  units.

Further, P is a first trisection point on AB and Q is a third quadrisection point on BD.

- v) Find the coordinates of P and Q.
- vi) Does PQT is isosceles triangle? Justify your answer.
- b) State the remainder theorem.

f(x) and g(x) are two polynomial functions of x. The remainder when f(x) is divided by  $3x^2 + 2x - 8$  is 2x + 3 and the remainder when g(x) is divided by  $x^2 - 4$  is 3x + 7.

- i) Find a linear factor of f(x) + g(x)
- ii) Find the remainder when  $f(x) \times g(x)$  is divided by the above factor.



- - **Hence,** sketch the graph of  $y = A \sin B\theta + C$ ,  $(0 \le \theta \le \pi)$ b)
  - Hence, find for what values of k, the equation y = k has, c)
    - Only 3 solutions
    - Only 6 solutions
    - iii) Only 7 solutions
    - iv) No solutions

iii) If 
$$\frac{\sin^4 \theta}{a} + \frac{\cos^4 \theta}{b} = \frac{1}{a+b}$$
 then show that  $\cos 2\theta = \frac{b-a}{b+a}$   
Hence, show that  $\frac{\sin^8 \theta}{a^3} + \frac{\cos^8 \theta}{b^3} = \frac{1}{(a+b)^3}$ 

7. a) If 
$$2A + B = \frac{\pi}{3}$$
 than show that,
$$\tan B = \frac{\sqrt{3} - 2 \tan A - \sqrt{3} \tan^2 A}{1 + 2\sqrt{3} \tan A - \tan^2 A}$$
Hence deduce that  $\tan \frac{\pi}{12} = 2 - \sqrt{3}$ 

b) Prove that for any triangle ABC in usual notation,
$$\frac{\sin(B-C)}{bc} + \frac{\sin(C-A)}{ca} + \frac{\sin(A-B)}{ab} = 0$$

State the sine rule and the cosine rule for the triangle ABC in usual notation. c) The angle bisector of  $B\hat{A}C$  meets the side BC at D.

Show that 
$$AD(b+c) = 2bc \cos\left(\frac{A}{2}\right)$$

Hence, deduce that 
$$a = (b+c) \left[1 - \frac{(AD)^2}{bc}\right]^{\frac{1}{2}}$$



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අධනයන පොදු සහතික පතු (උසස් පෙළ) විභාගය General Certificate of Education (Adv. Level)Examination 12 ලේණිය - පළමු චාර පරීක්ෂණය 2018 නොවැම්බර් Grade 12 First Term Test November 2018

Co	mbined Mathematics -	Time: 1 - nous
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nower all questions in the pa	art A and any two question	Class:
Prove the following identity. $1 - \cos A + \cos B - \cos(A + B)$ $1 + \cos A - \cos B - \cos(A + B)$	Part A	
		-
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$x$ ) is a polynomial function of degree is greater than three. When $P(x)$ is divided by $(x-1)-3$ the remainders are 2, 3 and 4 respectively. Using remainder theorem repeater mainder when $P(x)$ is divided by $x^3 - 6x^2 + 11x - 6$ .	$x^7 + 7x^6 + 2$	$1r^{5} + 25r^{4} + 25r^{3} + 21r^{2}$	+7x+1		
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	r – 3) the reemainder whe	omial function of degree is mainders are 2, 3 and 4 n P(x) is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divide remainder theorem	ded by (x - 1), rem repeated
	emainder whe	omial function of degree is mainders are 2, 3 and 4 n P(x) is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divide remainder theorem	ded by (x - 1), rem repeated
	r – 3) the reemainder whe	omial function of degree is mainders are 2, 3 and 4 n P(x) is divided by $x^3 - 6$	respectively. Using $x^2 + 11x - 6$ .	When P(x) is divide remainder theorem	ded by (x - 1), rem repeated
	emainder whe	omial function of degree is mainders are 2, 3 and 4 in P(x) is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divide remainder theorem	ded by (x - 1), rem repeated
	emainder whe	omial function of degree is mainders are 2, 3 and 4 in P(x) is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divide remainder theorem	ded by (x - 1), rem repeated
	mainder whe	omial function of degree is mainders are 2, 3 and 4 n P(x) is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divided the or	ded by (x - 1), rem repeated
	mainder whe	omial function of degree is mainders are 2, 3 and 4 in P(x) is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divide remainder theorem	ded by (x - 1), rem repeated
	r — 3) the remainder whe	omial function of degree is mainders are 2, 3 and 4 $n P(x)$ is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divided in the order of the ord	ded by (x - 1), rem repeated
	mainder whe	omial function of degree is mainders are 2, 3 and 4 in P(x) is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divide remainder theorem	led by (x - 1), rem repeated
	mainder whe	omial function of degree is mainders are 2, 3 and 4 n P(x) is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divide remainder theorem	ded by (x – 1), rem repeated
	mainder whe	omial function of degree is mainders are 2, 3 and 4 in P(x) is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divide remainder theorem	ded by (x – 1), rem repeated
	mainder whe	omial function of degree is mainders are 2, 3 and 4 in P(x) is divided by $x^3 - 6$	greater than three. Yespectively. Using $x^2 + 11x - 6$ .	When P(x) is divide remainder theorem	ded by (x – 1), rem repeated