

Khulna University
 Science, Engineering and Technology School
 Discipline: **Mathematics**, Program: **B.Sc. (Hons.)**
 Year: **First**, Term: **I** Examination-2026; Session: **2025-2026**
 Course Code: **0541 12 Math 1101**
 Course Title: **Algebra and Trigonometry**
 Total Marks: **60**, Time: **03** Hours, Credit: **03**



- The figures in the margin indicate full marks. The questions are of equal value.
- Use separate answer script for each section.

Section-A

There are **FOUR** questions in this section. Answer any **THREE** questions

Marks

- (a) Define the following with suitable examples: (i) negation, (ii) disjunction, (iii) biconditional statement. [L1; CLO1] 05

(b) Construct the truth table of $(p \rightarrow q) \leftrightarrow (\sim q \rightarrow \sim p)$ and determine whether it is a tautology. [L4; CLO1] 05
- (a) Define equivalence relation. Show that the relation $\mathbb{R}$ on integers defined by $aRb \Leftrightarrow (a - b \text{ is divisible by } 5)$ is an equivalence relation. [L3; CLO2] 05

(b) If $A = \{1, 2, 3, 4\}$ and $B = \{2, 4, 6, 8\}$, define a function $f: A \rightarrow B$ by $f(x) = 2x$. Determine whether $f(x)$ is one-one and onto. [L2; CLO2] 05
- (a) By using Tchebychef's inequality show that $\frac{\sum_{r=1}^n a_r b_r}{n} \geq \frac{\sum_{r=1}^n a_r}{n} \frac{\sum_{r=1}^n b_r}{n}$. [L2; CLO3] 06

(b) Prove that $\left[\frac{p_1}{p_2} + \frac{p_2}{p_3} + \frac{p_3}{p_4} + \dots + \frac{p_n}{p_1} \right] > n$. [L3; CLO3] 04
- (a) Find the n th term and the sum of n terms of the series: 3, 15, 39, 75, 123, ... [L4; CLO4] 04

(b) If $\alpha, \beta, \gamma, \delta$ are the roots of the equation $x^3 - 6x^2 + 11x - 6 = 0$, calculate the value of (i) $\alpha^2 + \beta^2 + \gamma^2$ and (ii) $\alpha\beta + \beta\gamma + \gamma\alpha$. [L3; CLO5] 06

Section-B

There are **FOUR** questions in this section. Answer any **THREE** questions

Marks

- (a) Using De-Moivre's theorem, expand $(\cos \theta + i \sin \theta)^5$. [L2; CLO6] 05

(b) Find all the cubic roots of $1 - i$. [L5; CLO5] 05
- (a) Sum the series: $\sin \alpha + n \sin(\alpha + \beta) + \frac{n(n+1)}{2!} \sin(\alpha + 2\beta) + \dots \dots \dots \infty$. [L5; CLO5] 06

(b) Apply Descart's rule of signs to find the nature of the roots of the equations:
 $x^4 + 16x^2 + 7x - 11 = 0$. [L3; CLO5] 04
- (a) If $(x_1 + iy_1)(x_2 + iy_2) \dots (x_n + iy_n) = x + iy$, then show that
 $\tan^{-1} \frac{y_1}{x_1} + \tan^{-1} \frac{y_2}{x_2} + \dots + \tan^{-1} \frac{y_n}{x_n} = \tan^{-1} \frac{y}{x}$. [L5; CLO5] 05

(b) Show that $y = -i \log \tan \left(\frac{ix}{2} + \frac{\pi}{4} \right)$, where $x = \log \tan \left(\frac{\pi}{4} + \frac{y}{2} \right)$. [L5; CLO5] 05
- (a) If in a spherical triangle ABC , $A = 70^\circ$, $b = 80^\circ$ and $C = 60^\circ$, then find c . [L3; CLO6] 04

(b) For any spherical triangle, show that $\sin \frac{A}{2} = \sqrt{\frac{\sin(s-b) \sin(s-c)}{\sin b \sin c}}$. [L4; CLO6] 06

***** THE END *****

*Levels of Bloom's cognitive domain:

[L1=Remember; L2=Understand; L3=Apply; L4=Analyze; L5=Evaluate; L6=Create]

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 Discipline: **Mathematics**, Program: **B.Sc. (Hons.)**
 Year: **First**, Term: **I** Examination-2026; Session: **2025-2026**
 Course Code: **0533 12 Phy 1151**
 Course Title: **Properties of Matter**
 Total Marks: **60**, Time: **03** Hours, Credit: **03**



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- Use separate answer script for each section.

Section-A

There are FOUR questions in this section. Answer any THREE questions		Marks
1. (a)	Briefly explain impulse and momentum. [L2; CLO1]	03
(b)	Estimate the final velocities of two bodies after collision in one dimension. [L5; CLO4]	05
(c)	Define centre of mass of a body. [L1; CLO1]	02
2. (a)	Recall the definition of moment of inertia and determine the moment of inertia of a bar about an axis passing through middle and perpendicular to its length. [L4; CLO2]	06
(b)	A flywheel of mass 10 kg and radius 0.6 m makes 9 revolutions per second. Calculate (i) angular velocity, (ii) moment of inertia and, (iii) the energy of the wheel. [L5; CLO2]	04
3. (a)	Sketch and explain stress strain curve in elasticity. [L2; CLO5]	05
(b)	Develop the relation $Y = 3B(1 - 2\sigma)$, where the symbols have their usual meanings. [L5; CLO5]	05
4. (a)	Explain Newton's law of universal gravitation. [L2; CLO5]	02
(b)	Show that the magnitude of escape velocity is 11.2 km/s. [L2; CLO5]	03
(c)	Deduce Newton's law from Kepler's law and justify the constant. [L5; CLO5]	05

Section-B

There are FOUR questions in this section. Answer any THREE questions		Marks
5. (a)	Define stream line flow and turbulent flow. [L1; CLO2]	02
(b)	Develop Bernoulli's equation and explain static pressure and dynamic pressure. [L3; CLO2]	05
(c)	Briefly discuss equation of continuity. [L6; CLO2]	03
6. (a)	Interpret differential equation for simple harmonic motion and hence solve the equation. [L2; CLO3]	05
(b)	From the mathematical analysis find out and explain the Lissajous figure for different amplitude and phase. [L5; CLO3]	05
7. (a)	Define beat and find out the time instances between two consecutive maxima and minima with the help of analytical treatment of beat. [L6; CLO6]	07
(b)	The equation of a transverse wave travelling along a stretched string is $y = -2 \sin \pi (0.5x - 200t)$, where x and y are in cm and t in second. Find the wavelength, frequency and velocity of the propagation. [L6; CLO5]	03
8. (a)	State and explain Sabine's reverberation formula. [L5; CLO6]	04
(b)	Mention different properties and applications of Infrasonic wave. [L6; CLO6]	03
(c)	A tuning fork of frequency 516 Hz approaches a wall with velocity 300 cm/s. Calculate the number of beats heard if the velocity of sound is 332m/s. [L5; CLO6]	03

***** THE END *****

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 Discipline: **Mathematics**, Program: **B.Sc. (Hons.)**
 Year: **First**, Term: **I** Examination-2026; Session: **2025-2026**
 Course Code: **0541 12 Math 1103**
 Course Title: **Differential Calculus**
 Total Marks: **60**, Time: **03** Hours, Credit: **03**



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- Use separate answer script for each section.

Section-A

There are **FOUR** questions in this section. Answer any **THREE** questions **Marks**

1. (a) Define function, domain and range. Find the natural domain of the following function (i) $g(x) = \sqrt{9-4x^2}$; (ii) $f(x) = \frac{1}{5x+7}$. [L1; CLO1] **03**
 (b) Sketch the graph of $y = |x|$, $y = -|x|$, $y = -|x-2|$ and $y = 4-|x-2|$. [L1; CLO1] **02**
 (c) Define $(\varepsilon - \delta)$ definition of limit. Prove that the statement using $(\varepsilon - \delta)$ definition, $\lim_{x \rightarrow 3} (4x-5) = 7$ is true. [L1; CLO1] **05**

2. (a) Evaluate the limit of the function using L'Hôpital's rule: **04**
 (i) $\lim_{x \rightarrow 0^+} \left(\frac{1}{x} - \frac{1}{\sin x} \right)$; (ii) $\lim_{x \rightarrow \frac{\pi}{2}} \frac{1 - \sin x}{\cos x}$. [L5; CLO1]
 (b) Show that the function $f(x) = |x| + |x-1|$ is continuous for every value of x , but not differentiable at $x = 0$ and $x = 1$. [L2; CLO2] **06**

3. (a) Let $y = 1/x$. (i) Estimate Δy if $\Delta x = 0.5$ and the initial value of x is $x = 1$, (ii) Estimate dy if $dx = 0.5$ and the initial value of x is $x = 1$, and (iii) Make a sketch of $y = 1/x$ and show Δy and dy in the picture. [L5; CLO2] **04**
 (b) Suppose that the rising sun passes directly over a building that is 100 feet high, and let θ be the sun's angle of elevation. Evaluate the rate at which the length x of the building's shadow is changing with respect to $\theta = 45^\circ$. [L4; CLO2] **03**
 (c) Use implicit differentiation to find $\frac{d^2 y}{dx^2}$ if $4x^2 - 2y^2 = 9$. [L1; CLO3] **03**

4. (a) State Euler's theorem on homogeneous function. [L1; CLO3] **02**
 (b) If $u = \tan^{-1} \left(\frac{x^2 + y^2}{x-y} \right)$, show that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \sin 2u$. [L5; CLO3] **04**
 (c) If $y = e^{a \sin^{-1} x}$, then show that $(1-x^2)y_{n+2} - (2n+1)x y_{n+1} - (n^2 + a^2)y_n = 0$. [L2; CLO3] **04**

Section-B

There are **FOUR** questions in this section. Answer any **THREE** questions

5. (a) Verify the hypothesis of Rolle's theorem satisfied on the given interval, and find all values of c , where $0 \leq c \leq 2$, that satisfy the conclusion of that theorem for the function $f(x) = x^3 - 3x^2 + 2x$; $[0, 2]$. [L6; CLO4] **05**
- (b) State and Prove Mean-Value theorem. [L5; CLO4] **05**
6. (a) Use Maclaurin theorem to expand the function $f(x) = \frac{1}{1+x}$. [L2; CLO4] **03**
- (b) Expand the function $\ln(1+x)$ in a Taylor series in the neighborhood $(2, \ln 3)$. [L2; CLO4] **04**
- (c) Determine the equation of the tangent line to $r = 3 + 8\sin \theta$ at $\theta = \frac{\pi}{6}$. [L5; CLO5] **03**
7. (a) Estimate an interval on which the following functions are increasing and the intervals on which they are decreasing, with drawing figure (i) $f(x) = x^2 - 4x + 3$ and (ii) $f(x) = x^3$. [L5; CLO6] **04**
- (b) The given $f'(x) = x^2(2x+1)(x-1)$ is the derivative of a continuous function. Evaluate all critical points and determine whether a relative maximum, relative minimum, or neither takes place there. [L4; CLO6] **02**
- (c) Design the dimensions of the open box by determining the size of the squares that should be cut out from the corners of a 16-inch by 30-inch piece of cardboard to maximize its volume. [L6; CLO6] **04**
8. (a) Explain the geometric meaning of tangent line. Evaluate the equation of tangent and normal line at (x, y) to the curve $\left(\frac{x}{a}\right)^{\frac{2}{3}} + \left(\frac{y}{b}\right)^{\frac{2}{3}} = 1$. [L5; CLO5] **05**
- (b) Explain the behaviors, if you require drawing the curve, of the function $y = \frac{2x^2 - 8}{x^2 - 16}$ and eventually draw this graph. [L5; CLO7] **05**

***** THE END *****

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 Discipline: **Mathematics**, Program: **B.Sc. (Hons.)**
 Year: **First**, Term: **I** Examination-2026; Session: **2025-2026**
 Course Code: **0542 12 Stat 1153**
 Course Title: **Basic Statistics**
 Total Marks: **60**, Time: **03** Hours, Credit: **02**



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- Use separate answer script for each section.

Section-A

There are **FOUR** questions in this section. Answer any **THREE** questions **Marks**

1. (a) Define Statistics. Elaborate on the applications of Statistics in the context of Mathematics. [L1; CLO1] **03**
 (b) Demonstrate statistical data. Demonstrate different types of statistical data with various perspectives. [L2; CLO2] **04**
 (c) Mention how many ways you collect primary data. [L3; CLO1] **03**
2. (a) What is a frequency distribution? Explain its advantages in summarizing raw data. [L2; CLO3] **04**
 (b) The marks obtained by 20 students in a mathematics test are:
 12, 15, 18, 12, 20, 17, 15, 18, 22, 16, 14, 19, 21, 17, 16, 15, 18, 20, 19, 14
 Construct a grouped frequency distribution table using an appropriate class interval. [L3; CLO3] **04**
 (c) Explain the concepts of variables and attributes in statistics. [L1; CLO3] **02**
3. (a) Explore what makes a measure of central tendency truly effective. Also, reveal which measure stands out as the top choice and explain why it earns this distinction. [L5; CLO6] **05**
 (b) Give that the arithmetic and geometric means of two observations are 20 and 16, respectively, determine the values of the observations. [L4; CLO2] **03**
 (c) Explain how extreme values influence the mean but not the median, with an example. [L2; CLO5] **02**
4. (a) For n non-zero observations, prove that $AM \geq GM \geq HM$. [L5; CLO3] **03**
 (b) Draw a box-and-whisker plot using the following frequency distribution and comments on it. [L4; CLO3] **03**

Class interval	100-125	125-150	150-175	175-200	200-225	225+
Frequency	10	37	55	48	35	15
- (c) Using the data set of question 4(b), calculate the mean, median, and mode. [L3; CLO2] **04**

Section-B

There are **FOUR** questions in this section. Answer any **THREE** questions

5. (a) Compare and contrast between quartiles, deciles, and percentiles. [L1; CLO5] 04
(b) Determine the 75th percentile (P75) from the following dataset and interpret your result. 03
5, 8, 10, 12, 15, 18, 20, 25, 28, 30. [L2; CLO5]
(c) Briefly explain different methods of detecting outliers. [L3; CLO5] 03
6. (a) What is a Box Plot? Discuss the advantages of a box plot in summarizing data. 03
[L4; CLO3]
(b) Construct a box plot using the following dataset and identify any possible outliers: 03
8, 10, 12, 14, 15, 16, 18, 19, 22, 40. [L4; CLO2]
(c) What is meant by dispersion in statistics? Why is it important? [L4; CLO5] 04
7. (a) Explain the term dispersion. What are the requisites of a good measure of dispersion? [L4; CLO4] 04
(b) The mean deviation about the mean cannot exceed the standard deviation. 04
[L4; CLO4]
(c) Write down some uses of standard deviation. [L1; CLO4] 02
8. (a) What is skewness? How does the measure of skewness help in understanding a frequency distribution of a dataset? [L2; CLO2] 05
(b) From the following distribution, calculate the coefficients of skewness and kurtosis. Interpret your findings. [L5; CLO6] 05

x_i	0	1	2	3	4	5	6	7	8
f_i	1	8	28	56	70	56	28	8	1

***** THE END *****

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Discipline: **Mathematics**, Program: **B.Sc. (Hons.)**

Year: **First**, Term: **I** Examination-2026; Session: **2025-2026**

Course Code: **0541 12 Math 1105**

Course Title: **Geometry in Two Dimensions**

Total Marks: **60**, Time: **03** Hours, Credit: **02**



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Section-A

There are **FOUR** questions in this section. Answer any **THREE** questions **Marks**

- (a) Define polar and Cartesian coordinates with examples, and derive the relationship between them. [L1; CLO1] **05**

(b) Find the coordinates of the circumcentre of the triangle whose vertices are A(3, -2), B(4, 3) and C(-6, 5). Hence find the circumradius. [L4; CLO2] **05**
- (a) Transform the equation $11x^2 + 24xy + 4y^2 - 20x - 40y - 5 = 0$ to rectangular axes through the point (2, -1) and inclined at an angle $\tan^{-1}\left(-\frac{4}{3}\right)$. [L5; CLO1] **05**

(b) If by rotation of the rectangular axes, the equation $14x^2 - 4xy + 11y^2 = 60$ reduces to the form $\frac{(x')^2}{a} + \frac{(y')^2}{b} = 1$, find a and b . Find also the angle through which the axes are rotated. [L6; CLO2] **05**
- (a) Find the area of the triangle formed by the lines $2x + y - 3 = 0$; $3x + 2y - 1 = 0$ and $2x + 3y + 4 = 0$. [L2; CLO1] **05**

(b) The equation of the hypotenuse of an isosceles right-angled triangle is $3x + 4y = 4$. The coordinates of the vertex opposite to the hypotenuse are (2, 2). Find the equations of the other two sides. [L6; CLO2] **05**
- (a) Prove that a homogeneous equation of n th degree represents n straight lines, real or imaginary, which all pass through the origin. [L4; CLO3] **04**

(b) Show that the equation $8x^2 + 10xy + 3y^2 + 22x + 14y + 15 = 0$ represents a pair of intersecting straight lines. Find their point of intersection and the angle between them. [L2; CLO2] **06**

Section-B

There are **FOUR** questions in this section. Answer any **THREE** questions

Marks

5. (a) If the straight line $3x + 4y = 25$ touches the circle $x^2 + y^2 = a^2$, find (i) the radius of the circle and (ii) the point of contact. [L1; CLO1] **05**
- (b) Prove that the four points of intersection of the lines $(2x - y + 1)(x - 2y + 3) = 0$ with the axes lie on a circle. Find its centre and radius. [L2; CLO2] **05**
6. (a) Find the equation of the circle through the point of intersection of the circles $x^2 + y^2 - 8x - 2y + 7 = 0$ and $x^2 + y^2 - 4x + 10y - 8 = 0$, which has its center on the y -axis. [L2; CLO2] **05**
- (b) Find the equation of the circle which cuts orthogonally each of the three circles $x^2 + y^2 + x + 2y + 3 = 0$, $x^2 + y^2 + 2x + 4y + 5 = 0$, $x^2 + y^2 - 7x - 8y + 9 = 0$. [L4; CLO3] **05**
7. (a) Reduce the equation $11x^2 + 4xy + 14y^2 - 26x - 32y + 23 = 0$ to standard form and hence find the eccentricity of the conic represented by it. [L5; CLO3] **05**
- (b) Reduce the equation $16x^2 - 24xy + 9y^2 - 104x - 172y + 44 = 0$ to its canonical form and determine the nature of the conic. Find the equation of its axes, directrix and latus rectum. [L5; CLO5] **05**
8. (a) The parabola has its focus at the pole and directrix $x = -3$. (i) Find the polar equation of the parabola, and (ii) Find the equation of the tangent to this parabola at $\theta = \pi/4$. [L3; CLO5] **05**
- (b) Find the equation of the chord of the hyperbola $x^2 - 3y^2 = 1$ bisected at the point $(3, 2)$. [L6; CLO4] **05**

***** THE END *****

Khulna University
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 Discipline: **Mathematics**, Program: **B.Sc. (Hons.)**
 Year: **First**, Term: **I** Examination-2026; Session: **2025-2026**
 Course Code: **0541 12 Math 1107**
 Course Title: **Fundamentals of Mathematics I**
 Total Marks: **60**, Time: **03** Hours, Credit: **02**



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- Use separate answer script for each section.

Section-A

There are **FOUR** questions in this section. Answer any **THREE** questions **Marks**

1. (a) Define even function, odd function, and periodic function with examples. **03**
 [L1; CLO1]
- (b) Draw the graph of the following function and find out the domain and range **03**
 $f(x) = |x+1| + |x-1|$. [L2; CLO1]
- (c) Draw the graph of the following function and find out the domain and range **04**

$$f(x) = \begin{cases} x^2 + 1; & x < 0 \\ 3x - 1; & 0 \leq x \leq 1 \\ \frac{1}{x}; & x > 1 \end{cases}$$
 [L2; CLO1]
2. (a) Develop a relation between natural and common logarithms. [L3; CLO1] **03**
- (b) Draw the graphs of the functions $\log_2 x$, $\log_5 x$, $\log_{10} x$ in the same diagram and make a comparison among them. [L5; CLO1] **04**
- (c) Prove that i) ${}^n P_r = \frac{n!}{(n-r)!}$; ii) ${}^n C_r = \frac{n!}{r!(n-r)!}$. [L5; CLO1] **03**
3. (a) Define power set and singleton set with examples. Discuss the methods of describing a set. [L2; CLO2] **03**
- (b) Prove that the length of a circular arc is $s = r\theta$ and the area of circular sector $A = \frac{1}{2}r^2\theta$, where r is the radius of the circle and θ is a radial angle. [L3; CLO2] **03**
- (c) In an examination, a candidate is required to answer 6 out of 12 questions which are divided into two groups each containing 6 questions and he is not permitted to attempt more than 4 questions from each group. In how many ways can he make up his choice? [L5; CLO2] **04**
4. (a) A cricket team consisting of 11 players is to be formed from 16 players of whom 4 can be bowlers and 2 can keep wicket and the rest can neither be bowler nor keep wicket. In how many different ways can a team be formed so that the teams contain (i) exactly 3 bowlers and 1 wicket keeper, (ii) at least 3 bowlers and at least 1 wicket keeper? [L1; CLO2] **04**
- (b) Discuss the number system in detail and include a proper diagram for illustration. [L6; CLO3] **03**
- (c) Explain the solution of $|5x+2| \leq 12$ and show it in real line. [L2; CLO3] **03**

Section-B

There are **FOUR** questions in this section. Answer any **THREE** questions

5. (a) Find the locus of a point so that the sum of its distances from the points $(ae, 0)$ and $(-ae, 0)$ is equal to $2a$ and $b^2 = a^2(1 - e^2)$. [L1; CLO4] 03
- (b) Identify the equation of the two straight lines through $(1, 2)$ forming two sides of a square of which $4x + 7y = 12$ is one diagonal. [L3; CLO4] 03
- (c) Select the equations of the lines which passes through the point of intersection of the lines $x + 2y = 19$ and $x - 2y = 3$, and are 5 units distance from the point $(-2, 4)$. [L5; CLO4] 04
6. (a) Prove that the locus of the point of intersection of two perpendicular tangent to the given circle $x^2 + y^2 = a^2$ is $x^2 + y^2 = 2a^2$. [L5; CLO4] 03
- (b) Find the equation of circle which passes through the points $(4, 1)$ and $(6, 5)$, and has its centre on the line $4x + y = 16$. [L1; CLO4] 03
- (c) Find the intrinsic equation of the cardioid $r = a(1 - \cos \theta)$. [L1; CLO4] 04
7. (a) Write down the standard equation of cycloid, astroid, and catenary and draw the figure. [L2; CLO5] 03
- (b) Find the whole area of the cycloid $x = a(\theta + \sin \theta)$, $y = a(1 - \sin \theta)$ bounded by its base. [L1; CLO5] 04
- (c) Find the area of the region bounded by the astroid $x^{\frac{2}{3}} + y^{\frac{2}{3}} = a^{\frac{2}{3}}$. [L1; CLO5] 03
8. (a) Evaluate the area bounded by the cardioid $r = a(1 - \cos \theta)$. [L3; CLO5] 04
- (b) Determine the length of an arc of the cycloid $x = a(\theta + \sin \theta)$, $y = a(1 - \sin \theta)$ measured from the vertex. [L5; CLO5] 03
- (c) Find the volume of the solid generated when a semicircle of radius a , centered at the origin, is revolved about the x axis. [L1; CLO5] 03

***** THE END *****

Discipline: **Mathematics**, Program: **B.Sc. (Hons.)**

Course Code: 0231 12 Eng 1157

Total Marks: 60, Time: 03 Hours, Credit: 02

- ### Section-A

Marks

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Section-B

There are **FOUR** questions in this section. Answer any **THREE** questions

Marks

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|--|----|
| 5. Write an application to the Head of your Discipline for arranging an international conference on current trends in Mathematics. [L1; CLO5] | 10 |
| 6. Make two different sentences using the following functions: [L2; CLO4]
(i) Request, (ii) Apology, (iii) Invitation, (iv) Advice, and (v) Preference. | 10 |
| 7. Write a paragraph explaining why students should be careful about using Social Media. Give a proper title to your paragraph. [L5; CLO5] | 10 |
| 8. Write short note on the following: [L2; CLO5]
(a) Notions and Functions
(b) Intonation and Stress | 10 |

***** THE END *****