ST. XAVIER'S UNIVERSITY, KOLKATA

Syllabus for PG Admission Test – 2026

M.COM, M.A. in English, M.A. in Mass Communication, M.S.W., M.A. in Economics, M.A. in Psychology, M. Sc. in Statistics and LL.M.

Total Marks: 100

Time: 2 hours

Question Pattern

- MCQ
- Each question will carry One (1) mark.
- No negative marking

Course: M. COM

Subject/Area	Total Marks	Topics
English	20	General language aptitude
Business Environment Awareness	40	Basic Accounting Terminology, GAAP, Ratio Analysis, National Income Accounting, Basic Microeconomics, Marketing, Management Principles, Human Resource Management, Financial resource management, Indian Economic Environment
Mathematical Aptitude	40	Profit & Loss, Interest, Invoicing- Trade Discount & Cash Discount, Ratio & Proportion, Basic Probability
	100	

Course: M.A. in English

1. Grammar and vocabulary (20 marks)
2. Comprehension (20 marks)
3. Authors from British literature, American literature and Indian writing in English (10 marks)
4. Title of works: British literature, American literature and Indian writing in English (10 marks)
5. History of English Literature: British literature (10 marks)
6. History of English Literature: British literature, American literature and Indian writing in English (10 marks)
7. Overview of American literature and Indian writing in English (10 marks)
8. Literary types and genres—British literature (10 marks)

Course: M.A. in Mass Communication

PART A:

Current affairs and General knowledge (50 Marks)

- Sports
- Politics
- Communication and Media related matters
- Film and Entertainment
- Advertising
- Prominent personalities
- National & International affairs

PART B:

General English (25 Marks)

- Vocabulary
- Prepositions
- Voice change
- Common phrasal verbs
- Synonyms and antonyms
- One word answer
- Use of articles
- Comprehension

Logical Reasoning (25 Marks)

- Verbal Reasoning
- Non-Verbal Reasoning

Course: M.S.W.

Topic	Marks
1. General Knowledge and Current Affairs	20
2. Government Policies and Laws	20
3. Indian Polity	20
4. Logical Reasoning	20
5. Social Problems	20
Total	**100**

Course: M.A. in Economics

(Revised)

Mathematics (50 Marks)

Set, Relation and Number theory, A.P., G.P., Binomial Theorem, Permutations and Combinations, Theory of Polynomial Equations, Function, Series, Sequence, Limit, Continuity, Differentiability, Mean value theorem, Matrices and Determinants, Vector space and subspaces, Definite and Indefinite Integrals, Convexity and quasi-convexity, The implicit function theorem, Homogeneous and Homothetic functions, Optimization, Difference and Differential equation, level curves, Unconstrained and Constrained Optimization.

Economics and Statistics (50 marks)

Economics:

Microeconomics: Theory of Consumer behaviour, Theory of Production & Costs, Market structure under perfect competition, monopoly, price discrimination, monopolistic competition, duopoly with cournot, stackelberg and bertrand competition, public goods, externalities, general equilibrium, welfare economics.

Macroeconomics: National income accounting, simple Keynesian Model of income determination and the multiplier, IS-LM Model, Complete Keynesian model, models of aggregate demand and aggregate supply, money, banking and inflation, Phillips Curve, open-economy macroeconomics, Growth model.

Indian Economy: Economic Reforms in India, Growth and Distribution.

Statistics:

Probability, Probability distributions, Measure of central tendency and dispersion, Correlation and Regression, Sampling theory, Inference, Index number.

Course: M.A. in Psychology

1. Understanding Human Behaviour - 50 Marks
2. Analytical Ability - 30 Marks
3. English Usage - 20 Marks

Course: M. Sc. in Statistics

Statistics (70 marks)

Probability: Set theory; Permutation and combination; Theory of Probability; Approaches to the calculation of probability; Calculation of event probabilities. Addition and multiplication laws of probability; Conditional probability, Theorem of total probability along with Bayes' theorem and independence of events.

Random Variables: Probability mass function and density function; cumulative distribution functions Mathematical expectation, variance, moments and moment generating function, skewness and kurtosis.

Standard Distributions: Uniform, Binomial, Poisson, Normal and Exponential Distributions

Joint Distributions: Joint, marginal and conditional distributions; Distribution of functions of random variables; Meaning of simple, multiple and partial, linear and non-linear correlation; Product moments correlation coefficient and its properties; Simple linear regression, Principle of least squares and regression lines, Regression equations and estimation, Properties of regression coefficients; Relationship between Correlation and Regression coefficients; Independence of random variables.

Sampling Theory: Populations and samples, Parameters and Statistics, Descriptive and inferential statistics; Random and non-random sampling techniques; Simple random sampling, Stratified sampling, Cluster sampling, Two-phase Sampling, Two-Stage sampling, Systematic sampling, Purposive sampling, Convenient sampling, Quota sampling and Snowball sampling; Description and statement of unbiased estimate of population mean and sampling variance, Sampling distributions of Sample Mean and Sample Variance; Central limit theorem.

Estimation: Concept of point estimation; Properties of a good estimator (unbiasedness, consistency, efficiency and sufficiency); Minimum Variance Unbiased Estimator; Methods of estimation (Methods of moments, Method of maximum likelihood and Least squares method). Concept of Interval estimation and Confidence intervals for population mean and proportions.

Testing of Hypothesis: Basic concepts of hypothesis testing; Small sample and large sample parametric tests based on Z, t, Chi-square and F statistic for population means and proportions.

Mathematics (30 marks)

Differential Calculus: Concepts of limit, and continuity of a function; Concept and rules of

differentiation, Application of differentiation, rate measure, slope, increasing and decreasing functions, Partial derivatives up to second order; Homogeneity of functions and Euler's theorem; Total differentials; Differentiation of implicit functions with the help of total differentials.
Maxima and Minima involving second or higher order derivatives.

Integral Calculus: Standard forms, Fundamental theorems of integral calculus; Methods of integration – by substitution, by parts, and by use of partial fractions; Definite integration; Finding areas in simple cases.

Matrices: Algebra of matrices. Inverse of a matrix, Matrix Operation – Business Application, Rank of a Matrix; System of linear equations using matrix inversion Method and Cremer's Rule; Linear transformations, eigenvalues and eigenvectors to Cayley-Hamilton theorem.

Course: Master of Laws (LL.M.)

The XLAT (PG) Entrance Examination will be based on the following compulsory papers of the Undergraduate programme.

S No.	Subject	Marks
1	Jurisprudence	**15**
2	Constitutional Law	**15**
3	Administrative Law	**10**
4	Public International Law	**10**
5	Law of Crimes	**10**
6	Law of Torts and Consumer Protection	**10**
7	Business Law	**10**
8	Family Law	**10**
9	Environmental Law	**10**
Total Marks		**100**