Paper Specific Instructions

- 1. The examination is of 3 hours duration. There are a total of 60 questions carrying 100 marks. The entire paper is divided into three sections, **A**, **B** and **C**. All sections are compulsory. Questions in each section are of different types.
- **2. Section A** contains a total of 30 **Multiple Choice Questions (MCQ).** Each MCQ type question has four choices out of which only **one** choice is the correct answer. Questions Q.1 Q.30 belong to this section and carry a total of 50 marks. Q.1 Q.10 carry 1 mark each and Questions Q.11 Q.30 carry 2 marks each.
- **3. Section B** contains a total of 10 **Multiple Select Questions (MSQ).** Each MSQ type question is similar to MCQ but with a difference that there will be **more than one** choices that are correct out of the four given choices. The candidate gets full credit if he/she selects all the correct answers only and no wrong answers. Questions Q.31 Q.40 belong to this section and carry 2 marks each with a total of 20 marks.
- **4. Section C** contains a total of 20 **Numerical Answer Type (NAT)** questions. For these NAT type questions, the answer is a real number which needs to be entered using the virtual keyboard on the monitor. No choices will be shown for these type of questions. Questions Q.41 Q.60 belong to this section and carry a total of 30 marks. Q.41 Q.50 carry 1 mark each and Questions Q.51 Q.60 carry 2 marks each.
- 5. In all sections, questions not attempted will result in zero mark. In **Section A** (MCQ), wrong answer will result in **NEGATIVE** marks. For all 1-mark questions, 1/3 marks will be deducted for each wrong answer. For all 2-mark questions, 2/3 marks will be deducted for each wrong answer. In **Section B** (MSQ), there is **NO NEGATIVE** and **NO PARTIAL** marking provisions. There is **NO NEGATIVE** marking in **Section C** (NAT) as well.
- **6.** Only Virtual Scientific Calculator is allowed. Charts, graph sheets, tables, cellular phone or other electronic gadgets are **NOT** allowed in the examination hall.
- 7. A Scribble Pad will be provided for rough work.



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Section A	a: Q.1 – Q.10 Carry ONE mark each.
Q.1	For a positively skewed frequency distribution,
(A)	Mean > Median > Mode
(B)	Mean < Median < Mode
(C)	Mode > Mean > Median
(D)	Median > Mode > Mean
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Q.2	In 1991, Committee was set up by the Government of India to examine the structure, organisation, and functions of the Indian financial system.
(A)	Rangarajan
(B)	Reddy
(C)	Narasimham
(D)	Chakravarty

Q.3	The inflation targeting policy adopted by the Reserve Bank of India in 2015 prescribed the targeted inflation to vary between percent.
(A)	2-6
(B)	2-7
(C)	3-8
(D)	3 – 7
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Q.4	Which one of the following is distinct from the others?
(A)	Histogram
(B)	Pictogram
(C)	Ogive
(D)	Frequency polygon

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Q.5	Which one of the following is the shut-down condition for a profit maximizing firm in a perfectly competitive market? P- Price, AVC- Average Variable Cost, ATC- Average Total Cost
(A)	P < AVC
(B)	P > AVC
(C)	P < ATC
(D)	P > ATC
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	IIT DELHI
Q.6	Which one of the following is CORRECT in the context of a natural monopoly?
(A)	Monopoly arises because one key input is a precious natural resource.
(B)	Total fixed cost is substantially larger than the total variable cost.
(C)	Government does not allow other producers to produce the product.
(D)	Indian Railway is an example of such a monopoly.

Q.7	If a Japanese citizen owns an apartment in India, then the rental income that she earns from that apartment is part of
(A)	India's GDP but not part of India's GNP
(B)	both India's GDP and GNP
(C)	India's GNP but not part of India's GDP
(D)	neither GNP nor GDP of India
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Q.8	The consumer price index (CPI) differs from the GDP deflator since it includes goods and services rather than goods and services
(A)	exported, imported
(B)	consumed, produced
(C)	exported, consumed
(D)	consumed, imported

EN 6/32

Q.9	"Garibi Hatao" (removal of poverty) and "Growth with Justice" were the slogans of Five Year Plan.
(A)	First
(B)	Second
(C)	Third
(D)	Fourth
	IAMA 2025
Q.10	Which is NOT a function of the Reserve Bank of India?
(A)	Lending to businesses
(B)	Bank of issues
(C)	Banker of the government
(D)	Controller of credit



Section A	: Q.11 – Q.30 Carry TWO marks each.
Q.11	In statistical hypothesis testing, the area of non-rejection is defined as
(A)	one <i>minus</i> probability of rejecting the Null hypothesis when it is true
(B)	one <i>minus</i> probability of not rejecting the Null hypothesis when it is not true
(C)	probability of rejecting the Null hypothesis when it is true <i>minus</i> probability of not rejecting the Null hypothesis when it is not true
(D)	probability of rejecting the Null hypothesis when it is true
	CON TEST
Q.12	If $\hat{\beta}$ is a consistent estimator of a population parameter β ; ε and δ are very small quantities, then
(A)	$\underset{n\to\infty}{Prob}[\hat{\beta}-\beta <\varepsilon]\geq 1-\delta$
(B)	$\underset{n\to\infty}{Prob}[\hat{\beta}-\beta <\varepsilon]=0$
(C)	$\underset{n\to\infty}{Prob}[\hat{\beta}-\beta <\varepsilon]=\delta$
(D)	$\underset{n\to\infty}{Prob}[\hat{\beta}-\beta <\varepsilon]=1+\delta$

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Q.13	Power of a statistical test is defined as
(A)	one minus probability of rejecting the Null hypothesis when it is true
(B)	one minus probability of not rejecting the Null hypothesis when it is not true
(C)	probability of rejecting the Null hypothesis when it is true <i>minus</i> probability of not rejecting the Null hypothesis when it is not true
(D)	probability of not rejecting the Null hypothesis when it is not true
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Q.14	If $Y = L^{\alpha}K^{\beta}$ is a Cobb-Douglas production function with two factors labor and capital, then the presence of constant returns to scale exhibited by the production function can be tested using
(A)	only t statistic
(B)	only F statistic
(C)	both t and F statistic
(D)	χ^2 statistic

EN 9/32

Q.15	In the context where sample mean of the dependent variable (\bar{Y}) lies closer to the observed Y_i than its least square predictor (\hat{Y}_i) ,
(A)	the goodness of fit (R^2) is negative
(B)	the goodness of fit (R^2) is equal to 1
(C)	the goodness of fit (R^2) is equal to 0
(D)	the goodness of fit (R^2) must lie between 0 and 1
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Q.16	Which one of the following statements is CORRECT?
(A)	Higher the cash reserve ratio, smaller the money multiplier.
(B)	Higher the cash reserve ratio, larger the money multiplier.
(C)	If banks hold all deposits as reserve, larger the money multiplier.
(D)	Cash reserve ratio does not influence the money multiplier.

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Q.17	Public sector undertakings can affect the government exchequer through
(A)	tax payments only
(B)	dividend payments only
(C)	dividend, interest, and tax payments
(D)	interest payments only
	JAWI ZUZO
Q.18	According to the IS-LM model, if the central bank increases money supply, then the rate of interest will and the income will
(A)	fall, rise
(B)	rise, fall
(C)	rise, rise
(D)	fall, fall
(D)	fall, fall

EN 11/32

Q.19	Consider the following cases:
	I. Rosy buys a 50-year-old house for her family in this year.
	II. This year, Cathy builds a new house for herself.
	The total investment in the economy in this context is
(A)	2 houses
(B)	1 house
(C)	1+(1/50) houses
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(D)	
(D)	1+ (1/2) houses
Q.20	Consider a firm that produces a single good using labour and capital. Let C, Q, L, K, w ,
	r and p denote cost of production, level of output, labour, capital, wage rate, price of
	capital and the price of output, respectively.
	An example of the <i>cost function</i> for this firm is
	65
(A)	C = wL + rK
(A)	C - WL + TK
(B)	$C = \min\{wL, rK\}$
(C)	pO
	$C = \frac{pQ}{[wL + rK]}$
,	
(D)	$C = Q\sqrt{r w}$

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Q.21	Consider a consumer with the utility function, $U(x, y) = y + \sqrt{x}$ where x and y are quantity of two commodities consumed.
	Which one of the following is TRUE?
(A)	Income elasticity of demand for both goods is 1.
(B)	Income elasticity of demand for good x is 0.
(C)	Income elasticity of demand for good y is 0 .
(D)	Income elasticity of demand for good x is 0.5 and good y is 1.
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Q.22	In a two-goods consumption framework, Engel curve shows the relationship between
(A)	price of one good and quantity demanded of the other good
(B)	relative price of the goods and ratio of their quantities demanded
(C)	income and quantity demanded of one of the goods
(D)	income and the ratio of quantities demanded of the two goods

EN 13/32

Q.23	Theory of revealed preference is used to derive
(A)	optimal choice, using incomes, prices, and preference
(B)	level of income, using prices, preference, and optimal choice information
(C)	preference, using prices, incomes, and optimal choice information
(D)	prices, using preference, incomes, and optimal choice information
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Q.24	Consider the statements I and II in a monopolistically competitive market scenario: I. In the long-run equilibrium, the price of the good will be equal to the minimum of the average total cost. II. In the short run, firms may earn a positive profit. Which of the following options is CORRECT?
(A)	Both I and II are TRUE
(B)	I is TRUE but II is FALSE
(C)	I is FALSE but II is TRUE
(D)	Both I and II are FALSE

EN 14/32

Q.25	If average variable cost (AVC) curve is an upward slopping straight line through the origin, then the marginal cost curve will be an
(A)	upward slopping straight line through the origin and steeper than the AVC curve
(B)	upward slopping straight line through the origin and flatter than the AVC curve
(C)	usual "U-shaped" curve
(D)	upward slopping straight line having a positive vertical intercept
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Q.26	In the case of 'liquidity trap',
(A)	expansionary monetary policy is highly effective
(B)	expansionary monetary policy raises supply of money leading to hyperinflation
(C)	as the central bank increases the money supply, the interest rate will fall significantly
(D)	expansionary monetary policy is completely ineffective
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Q.27	Mid-day meal scheme for Indian school children was first introduced in
(A)	Calcutta Municipal Corporation
(B)	Madras Corporation
(C)	Trivandrum Corporation
(D)	Bombay Municipal Corporation
Q.28	Tax buoyancy is defined as
(A)	growth in tax revenue
(B)	growth in tax revenue as a ratio to growth in tax rate
(C)	percentage change in tax revenue as a ratio to percentage change in tax base
(D)	percentage change in tax revenue as a ratio to percentage change in government expenditure

EN 16/32

Q.29	You are measuring level of consumption of a good commodity on the X-axis and that of a bad commodity on the Y-axis. The indifference curve is
(A)	parallel to the X-axis
(B)	parallel to the Y-axis
(C)	of "inverted-U" shape
(D)	having a positive slope
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Q.30	Marginal utility of a good refers to the
(A)	change in utility by consuming the good
(B)	change in utility by consuming some additional units of the good
(C)	rate of change in utility from per unit change in consumption of the good
(D)	rate of change in utility from per unit monetary change in expenditure on the good

EN 17/32

Section B	Section B: Q.31 – Q.40 Carry TWO marks each.	
Q.31	Which of the following statements describe(s) the relationship between R^2 and adjusted R^2 (denoted by \bar{R}^2)?	
(A)	If $R^2 = 1$, then $\overline{R}^2 = 1$	
(B)	If $R^2 = 0$, then \bar{R}^2 can be negative	
(C)	If $R^2 = 1$, then $\overline{R}^2 = 0$	
(D)	If $R^2 = 0$, then $\overline{R}^2 = 1$	
Q.32	Which of the following is/are NOT the assumption(s) of Classical Linear Regression Model (CLRM)?	
(A)	Variance of the dependent variable (Y_i) is greater than the variance of the explanatory variable (X_i) .	
(B)	The model is linear in both parameters and variables.	
(C)	The $Cov(Y_i, u_i) = 0$, where u_i is the error term.	
(D)	The $Cov(X_i, u_i) = 0$, where u_i is the error term.	

EN 18/32

Q.33	Which of the following is/are NOT TRUE?
(A)	Arithmetic mean is always greater than or equal to the geometric mean of a set of positive values.
(B)	Correlation coefficient between two variables varies between 0 and 1.
(C)	Exact middle point of $-\infty$ and ∞ on the real line is 0.
(D)	Domain of a random variable that follows χ^2 distribution with degree of freedom <i>one</i> is $[0, \infty]$.
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Q.34	Which of the following is/are the shock(s) to the IS curve?
(A)	Changes in the demand for consumer goods
(B)	Self-fulfilling waves of optimism and pessimism of the agents in the economy
(C)	Exogenous changes in the demand for money
(D)	Changes in the government purchases

EN 19/32

Q.35	Which of the following is/are CORRECT in the case of a small open economy with floating exchange rate?
(A)	Fiscal expansion raises income.
(B)	Fiscal expansion leaves income at the same level.
(C)	Capital inflow leads to fall in net exports.
(D)	Capital inflow leads to increase in net exports.
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Q.36	Which of the following is/are CORRECT according to the classical macroeconomic school?
(A)	Long run aggregate supply curve is vertical.
(B)	If long run aggregate supply curve is vertical, changes in aggregate demand affects prices but not output.
(C)	If long run aggregate supply curve is vertical, changes in aggregate demand affects output but not prices.
(D)	Vertical aggregate supply curve implies that output is independent of the money supply.

EN 20/32

Q.37	In the case of <i>first-degree</i> price discrimination, which of the following statements is/are CORRECT in long run?
(A)	Total surplus is equal to firm's profit.
(B)	Consumer surplus is equal to zero.
(C)	Deadweight loss is positive.
(D)	Producer surplus is zero.
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Q.38	Which of the following statements is/are CORRECT for diseconomies of scale?
(A)	The elasticity of cost with respect to output is less than one.
(B)	The elasticity of cost with respect to output is greater than one.
(C)	The elasticity of cost with respect to output is equal to one.
(D)	Marginal cost is greater than average cost.

EN 21/32

	(5)
Q.39	Market failure occur(s) in the presence of which of the following?
(A)	Externality
(B)	Public good
(C)	Market power
(D)	Private good
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Q.40	Which of the following reference period(s) is/are used by the National Sample Survey for measuring employment and unemployment?
(A)	One year
(B)	One month
(C)	One week
(D)	Each day

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Section	C: Q.41 – Q.50 Carry ONE mark each.
Q.41	The correlation coefficient between x and y using the following information is (rounded off to two decimal places). $\sum_{i=1}^{100} x_i = 280, \ \sum_{i=1}^{100} y_i = 60, \ \sum_{i=1}^{100} x_i^2 = 2384, \ \sum_{i=1}^{100} y_i^2 = 117, \ \sum_{i=1}^{100} x_i y_i = 438$
Q.42	Two cards are drawn from a full pack of 52 cards at random. The probability of getting
	a heart and a diamond is (rounded off to two decimal places).
Q.43	A monopolist produces two commodities 1 and 2 in quantities x_1 and x_2 at a constant average cost of Rs.2.50 and Rs.3.00 per item, respectively. If p_1 and p_2 stand for the prices charged and the market demands are: $x_1 = 5(p_2 - p_1) \text{ and } x_2 = 32 + 5p_1 - 10p_2$ The price p_1 for commodity 1 at which the monopolist's total profit is maximised is (rounded off to two decimal places).

EN 23/32

Q.44	Suppose the GDP growth rate is 8% and the rate of saving in the economy is 40%. The incremental capital output ratio (ICOR) is
Q.45	A fair coin is tossed 3 times in succession. The probability of the event that 'both first and second toss result in head' is (rounded off to two decimal places).
Q.46	The composition of the adult population in an economy is as follows: Employed: 140 million; Unemployed: 10 million; Not in labour force: 50 million. The rate of unemployment is % (rounded off to two decimal places).
Q.47	A monopolist produces a product and sells to two types of buyers: A and B. The inverse demand functions for A and B are given by $P = 50 - 5Q$ and $P = 100 - 10Q$, respectively. The monopolist's cost function is given by $C = 90 + 20Q$. The profit maximizing output of the monopolist for buyer B is
Q.48	The sum of the payoffs to the players in the Nash equilibrium of the following simultaneous game is
	Player Y

EN 24/32

Q.49	Suppose an economy produces 100 kg of rice in a year and sells that for Rs.100 per kg. If the quantity of money in the economy is Rs.500, then the velocity of money is
Q.50	Suppose utility function of a consumer is $u(x, y) = xy$, where x and y are quantities of the two commodities consumed.
	If price of x is Re.1 and that of y is Rs.2, and income of the consumer is Rs.100, utility maximizing quantity consumption of x is
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Section	C: Q.51 – Q.60 Carry TWO marks each.
Q.51	The value of the derivative of the function $y = x^{e^x}$ at $x = 1$ is (rounded off to two decimal places).

EN 25/32

Q.52	The present value of a perpetual cash flow of Rs.250 per year, discounted at the rate of 10% each year, is Rs
Q.53	An economy saves 25% of its national income and invests a sum of Rs.1000 each year. The economy starts with Rs.10,000 as its initial national income. Assume that the consumption in any year depends on the income of the previous year. The national income of the economy after 10 years is Rs (rounded off to two decimal places).
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Q.54	Anubhab faces a multiple-choice question (MCQ) with four alternative choices, where only one is the right choice. There is no negative mark for making a wrong choice. Also, assume that the probability that he knows the answer is 0.50. The probability of making the correct choice is 0.25, if he does not know the answer. He got full marks in this question. The probability that he knew the answer is (rounded off to one decimal place).
Q.55	You are tossing a fair coin repeatedly until a 'Head' appears. The expected number of tosses required for a 'Head' to appear is

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Q.56	Lerner Index (L), a measure of market power, is defined as $\frac{P-MC}{P}$, where P and MC are, respectively, price and marginal cost of a firm. If a profit maximising firm faces the demand curve $P^2Q = 7$, the value of L is (rounded off to one decimal place).
Q.57	Demand curve for a commodity in your consumption basket is given by $P^2Q^5=392.67$. The absolute value of your own price elasticity of demand for this commodity is (rounded off to one decimal place).
	CON TEST
Q.58	Price of milk of certain brand was Rs.28/litre and Rs.36/litre in the months of September and October of 2015, respectively. Assume equal amounts of money is spent on that brand of milk by a particular family in each of these months. The average monthly price of milk paid by this family during these months is Rs per litre (rounded off to one decimal place).
Q.59	Consider the economy described by the following: $Y = C + I + G$ with $Y = 5000$, $G = 1000$, $T = 1000$, and $C = 250 + 0.75(Y - T)$, where Y , C , I , G , and T are national income, private consumption spending, investment expenditure, government expenditure, and tax revenue respectively. In this economy, private saving is

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Q.60	Matrix $A = \begin{bmatrix} 4 & -1 \\ 12 & -3 \end{bmatrix}$. The value of the determinant of A^5 is

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