ENTRANCE EXAMINATION FOR ADMISSION, MAY 2012.

Ph.D. (ECONOMICS) COURSE CODE: 108

Register Number	:		
			Signature of the Invigilator
			Signature of the Invigilator (with date)

COURSE CODE: 108

Time: 2 Hours Max: 400 Marks

Instructions to Candidates:

- Write your Register Number within the box provided on the top of this page and fill in the page 1 of the answer sheet using pen.
- 2. Do not write your name anywhere in this booklet or answer sheet. Violation of this entails disqualification.
- 3. Read each of the question carefully and shade the relevant answer (A) or (B) or (C) or (D) in the relevant box of the ANSWER SHEET <u>using HB pencil</u>.
- 4. Avoid blind guessing. A wrong answer will fetch you −1 mark and the correct answer will fetch 4 marks.
- Do not write anything in the question paper. Use the white sheets attached at the end for rough works.
- 6. Do not open the question paper until the start signal is given.
- 7. Do not attempt to answer after stop signal is given. Any such attempt will disqualify your candidature.
- On stop signal, keep the question paper and the answer sheet on your table and wait for the invigilator to collect them.
- 9. Use of Calculators, Tables, etc. are prohibited.

1.	If no	ominal GDP increases, which of the fo	llowin	g will always take place?					
	(A)	Prices will have increased but output	t will	have fallen or remained the same					
	(B)	(B) Both output and prices will have increased							
	(C)	(C) Output will have increased but prices will have fallen or remained the same.							
	(D)	None of the above							
2.	A fa	ll in the government's budget deficit v	vill lov	ver					
	(A)	Saving and GDP	(B)	Equilibrium GDP and consumption					
	(C)	Consumption and saving	(D)	All the above are correct					
3.	cror	pose nominal GDP is Rs.566 crores in 1988. If 1986 is the base year with in 1988 is 3%, from this information	, the	price index is 105 in 1987, and rea					
	(A)	Less than 109	(B)	109					
	(C)	Greater than 109 but less than 110	(D)	110 or over					
4.	In th	he classical model, output varies in re	sponse	e to					
	(A)	Variation in money supply	(B)	Variation in prices					
	(C)	Both (a) and (b) are correct	(D)	Both (a) and (b) are wrong					
5.	In th	he classical framework, a cut in margi	nal in	come tax rate					
	(A)	Increases labour supply	(B)	Reduces real wage					
	(C)	Increases output	(D)	All are true.					
6.		the simple Keynesian model of the cumed to be	detern	nination of income, the price level					
	(A)	(A) Endogenous and to remain constant							
	(B)	B) Exogenous and to remain constant							
	(C)	C) Exogenous and to gradually change							
	(D) Endogenous and to gradually change.								
7.	If in	vestment is interest elastic, then a de	crease	e in the rate of interest					
	(A)	Increase the level of investments wh	nich th	en decrease the level of income					
	(B)	Increase the level of investments wh	ich th	en increase the level of income					
	(C)	Decrease the level of investments w	hich tl	nen decrease the level of income					
	(D)	Decrease the level of investments w	hich tl	hen increase the level of income					

8.		the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier be 4 and γ be interestributed by the multiplier by the m		
	(A)	γ is close to infinity		
	(B)	γ is zero		
	(C)	Interest elasticity of money demand	is clos	e to infinity
	(D)	None of the above		
9.	Fisc	al policy is more effective if		
	(A)	Income elasticity of money demand is	s zero	
	(B)	Interest elasticity of money demand	is high	her
	(C)	Investment demand is interest inelas	stic	
	(D)	All of the above are true		
10.	Crov	wding-out effect is stronger if		
	(A)	investment is more interest elastic		
	(B)	investment is less interest elastic		
	(C)	investment is interest inelastic		
	(D)	none of the above		
11.	If Ri	icardian equivalence holds good, then	a tax	cut tends to induce
	(A)	Consumption expenditure	(B)	Investment expenditure
	(C)	Money supply to rise	(D)	None of the above
12.		IS equation is $Y = 500 - 2000i$, which s not represent a point on the IS schedule.		e following sets of interest and income
	(A)	i = 0.07 and $y = 360$,	(B)	i = 0.05 and $y = 400$,
	(C)	i = 0.02 and $y = 450$,	(D)	i = 0.10 and $y = 300$
13.	The	slope of LM schedule is smallest when	1,	
	(A)	There is no speculative demand for n completely interest inelastic	noney	and transaction demand for money is
	(B)	The speculative and transaction dem	and f	or money is are interest inelastic
	(C)	There is a small transaction demand	l for r	noney and the speculative demand for

money is interest inelastic

(D) The demand for money is highly interest inelastic

14.	An i	ncrease in the marginal propensity to import will
	(A)	Lower the multiplier and reduce equilibrium income
	(B)	Raise imports and raise equilibrium income
	(C).	Raise the multiplier and reduce equilibrium income
	(D)	Lower imports and raise equilibrium income
15.	If bu	siness firms are more optimistic during the expansion phase of the business, they
	(A)	Raise their expected rates of return on projects and investment decreases.
	(B)	Lower their expected rates of return on projects and investment increases
	(C)	Lower their prices and increase investment
	(D)	Raise their expected rates of return on projects and investment increases
16.		pose that steel produced this year is used to produce a car sold next year. The e of the steel ———————————————————————————————————
	(A)	Is; an adjustment to inventories
	(B)	Is not; an adjustment to inventories
	(C)	Is; an intermediate good
	(D)	Is not; an intermediate good
17.	The	yield curve exhibits
	(A)	The yield on stocks vs. the yield on bonds
	(B)	The yield on stocks vs. the yield on treasury bills
	(C)	The yield on bonds vs. the yield on treasury bills
	(D)	The yield on treasury bills vs. the yield on bank accounts
18.	The	real interest rate is the
	(A)	Nominal interest rate less the expected rate of inflation
	(B)	Nominal interest rate plus the expected rate of inflation
	(C)	Observed interest rate less the expected rate of inflation
	(D)	Both (a) and (c) above
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19. A reduction in inventory is

- (A) Not considered in the national income accounts
- (B) Entered as positive investment in the national accounts
- (C) Entered as negative investment in the national accounts
- (D) Entered as a depreciation item in the national accounts

20. Rational expectations implies that

- (A) The short run Phillips curve becomes vertical
- (B) People no longer persistently over- or under-estimate inflation
- (C) The short run trade-off of inflation versus unemployment disappears
- (D) Movements up the long-run Phillips curve are faster than movements down it

21. Interest rate parity claims that

- (A) Real interest rates are identical across countries
- (B) Nominal interest rates are identical across countries
- (C) Real interest rates are identical across countries except for a risk differential
- (D) Nominal interest rates are identical across countries except for a risk differential

22. Under flexible exchange rates a small open economy should

- (A) Lose control of its monetary policy
- (B) Be insulated from its trading partners' inflation
- (C) Tend to experience the inflation of its trading partners
- (D) Find that changes in its interest rates match changes in its trading partner's interest rates

23. If we are at full employment and the rate of growth of our money supply increases, in the long run we should expect

- (A) A fall in bond prices and our exchange rate
- (B) An increase in bond prices and our exchange rate
- (C) An increase in bond prices and a fall in our exchange rate
- (D) A fall in bond prices and an increase in our exchange rate

24. In countries experiencing hyperinflation we should see

- (A) Low interest rates and a depreciating currency
- (B) High interest rates and a depreciating currency
- (C) Low interest rates and an appreciating currency
- (D) High interest rates and an appreciating currency

- 25. "The surest way to sustain the exchange value of our currency is to maintain its purchasing power at home." The rationale behind this statement is that PPP says that
 - (A) Low inflation will cause our exchange rate to fall slowly
 - (B) Zero inflation will cause our exchange rate to be constant
 - (C) High inflation will cause our exchange rate to rise quickly
 - (D) Inflation lower than our trading partners inflation causes our exchange rate to
- 26. The central bank, which handles the foreign exchange reserve fund for the government, sells reserves and buys dollars when it wants to
 - (A) Lower the interest rate
 - (B) Stimulate economic activity
 - (C) Stimulate demand for exports
 - (D) Prevent the exchange rate from falling
- 27. A country that is buying its own currency to maintain a given exchange rate
 - (A) Has a flexible exchange rate
 - (B) Has an undervalued currency
 - (C) Has a balance of payments surplus
 - (D) Is automatically decreasing its money supply
- 28. A country with an undervalued currency
 - (A) Is hurting exporters
 - (B) Will have a balance of payments deficit
 - (C) Will accumulate reserves of foreign currency
 - (D) Will experience downward pressure on its exchange rate
- 29. A sterilization policy applied after a decrease in the money supply should cause
 - (A) The exchange rate to flex
 - (B) No change in our foreign exchange reserves
 - (C) Our foreign exchange reserves continually to fall
 - (D) Our foreign exchange reserves continually to rise
- 30. The existence of the international sector causes fiscal policy to
 - (A) Be weaker, but only under fixed exchange rates
 - (B) Be stronger, but only under fixed exchange rates
 - (C) Be stronger, but only under flexible exchange rates
 - (D) Be completely ineffective, but only under a fixed exchange rate

31.		its output increases, a firm's short-run marginal cost will eventually increas
	(A)	Diseconomies of scale (B) Inefficient production
	(C)	The firm's need to break even (D) Diminishing returns
32.	At a	any given point on an indifference curve, the absolute value of the slope equals
	(A)	Unity-otherwise there would be no indifference
	(B)	The marginal rate of substitution
	(C)	The consumer's marginal utility
	(D)	None of the above
33.	An i	ndifference curve is
	(A)	A collection of market baskets that is equally desirable to the consumer
	(B)	A collection of market baskets that the consumer can buy
	(C)	A curve whose elasticity is constant for every price
	(D)	A curve which passes through the origin and includes all of the market basket that the consumer regards as being equivalent
34.	If th	e prices of both goods increase by the same percent, the budget line will
	(A)	Shift parallel to the left (B) Shift parallel to the right
	(C)	Pivot about the x axis (D) None of the above
35.	Caro	linal utility theory assumes that consumers can
	(A)	Rank baskets of goods as to their preference
	(B)	Determine the number of utils that can be derived from consuming all goods
	(C)	Determine the marginal rate of substitution between goods
	(D)	All of the above
36.	The	income effect of a price change
	(A)	Is always positive
	(B)	Is always negative
	(C)	May be positive or negative
	(D)	Is associated with a change in naminal income

37.	If th	ne demand curve for a good is downwa	rd slo	ping, then the good must be
	(A)	Normal	(B)	Inferior
	(C)	Giffen	(D)	Either (a) or (b)
38.	Pric	e elasticity at a given price is not affe	cted by	y
	(A)	The price of substitutes	(B)	A change in supply
	(C)	A change in tastes	(D)	The consumer's income
39.	If th	e income elasticity of demand is +4		
	(A)	The good is an inferior good	(B)	The good is an inelastic normal good
	(C)	The good is an elastic normal good	(D)	The good is an elastic inferior good
40.	A ne	egatively sloped isoquant implies		
	(A)	Products with negative marginal uti	lities	
	(B)	Products with positive marginal util	ities	
	(C)	Inputs with negative marginal produ	ucts	
	(D)	Inputs with positive marginal produ	cts	
41.	Whi	ch of the following would cause the de	mand	curve-for an input to shift?
	(A)	A change in technology		
	(B)	A change in demand for the product	being	produced
	(C)	An increase in the number of firms i	n the	industry
	(D)	All of the above		
42.	A m	onopsony is		
	(A)	The sole supplier of an input	(B)	The sole supplier of an output
	(C)	The sole buyer of some type of input	(D)	A unionized industry
43.	A co	empetitive firm will hire inputs up to	he poi	int where
	(A)	The price of the input equals its man	rginal	physical product of the input
	(B)	The marginal product of the input re	eaches	a maximum
	(C)	The price of the input equals the val	ue of	the marginal product of the input
	(D)	The price of the input equals the pri	ce of t	he output
44.	The	kinked demand curve is used to		
	(A)	Illustrate the difference between pu	re and	differentiated oligopoly
	(B)	Explain the stability of oligopolistic	prices	
	(C)	Illustrate the nature of zero-sum ga	mes	
	(D)	Illustrate the linear programming p	roblen	n faced by the firm

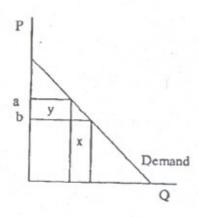
45.	A ty	A typical Cournot solution is defined as		
	(A)	A) One in which the solution is identical to the purely c	ompetitive market	
	(B)	B) One in which the solution is identical to the monopo	ly solution	
	(C)	C) One in which the output is above the monopo	oly and below the pur	rely
	(D)	D) None of the above		
46.	If a	f a monopoly is unable to cover its short-run variable cost	s, it should	
	(A)	A) Shut down (B) Raise pri	ce	
	(C)	C) Lower price (D) Increase	output	
47.		f the monopolist maximizes profits when marginal rev quals average cost, economic profits must be	enue equals marginal o	cost
	(A)	A) Negative (B) Positive		
	(C)	C) Zero (D) either (a)	or (c)	
48.		he statement that marginal cost = marginal revenue lea oss minimization is true	ds to profit maximization	n of
	(A)	A) All the time		
	(B)	B) Only in the long run		
	(C)	C) Only if marginal cost is rising at the point of equality	y-	
	(D)	Only if average total cost is falling at the point of equ	uality	
49.	In th	n the short run, no firm operates with a loss, unless		
	(A)	A) Variable cost equals fixed cost		
	(B)	Variable cost falls short of fixed cost		
	(C)	C) Total revenue covers variable costs		
	(D)	D) Total revenue covers fixed cost		

- In the figure below, for the demand curve shown, marginal revenue for the price reduction from a to b can be measured by
 - (A) Adding x + y

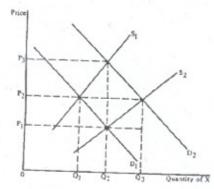
(B) Subtracting x from y

(C) Measuring only x

(D) Subtracting y from x



Answer 51 and 52 from the figure:



- If the initial demand and supply curves are D₁ and S₁, equilibrium price and quantity
 - (A) OP2 and OQ3
- (B) OP₁ and OQ₂ (C) OP₂ and OQ₁
- (D) OP₃ and OQ₂
- 52. If the demand curve shifts from D1 to D2, one could say that
 - The quantity demanded has decreased to Q1 and price has fallen to P2
 - (B) There had been an increase in demand for X
 - The price of a good which is a substitute for X must have fallen
 - (D) The higher price of X (P3) has caused the quantity demanded of X to fall from OQ3 to OQ2
- The slope of the total variable cost curve equals
 - (A) Average variable cost

Marginal cost (B)

(C) Average cost

Marginal physical product

54.	In tl	ne short run, a firm's fixed cost
	(A)	Is zero
	(B)	Cannot be avoided
	(C)	Can be avoided only by cutting production to zero.
	(D)	Is not correctly described by any of the above
55.	An i	socost line identifies
	(A)	The least costly combination of inputs needed to produce a given level of output
	(B)	The relative prices of inputs
	(C)	The technological relationships among inputs
	(D)	The rate at which one input can be substituted for another in the production process
56.	The	demand curve for labor is derived from
	(A)	The market labor demand curve
	(B)	The demand curve for the output produced by the labor
	(C)	The labor supply curve of the firm
	(D)	The market labor supply curve
57.	Whi	ch of the following indicates the two goods are complements?
	(A)	A positive income elasticity (B) A horizontal demand curve
	(C)	A negative cross price elasticity (D) A positive cross price elasticity
58.	At a	Nash Equilibrium
	(A)	The supply curve intersects the demand curve
	(B)	The equilibrium is unstable and each party would like to switch strategies
	(C)	Neither party has an incentive to deviate from his or her strategy
	(D)	No additional output could be possibly produced
59.	The	condition that P = MC is direct requirement for which type of efficiency?
	(A)	Distributive efficiency (B) Technical efficiency
	(C)	Efficiency in production (D) Allocative efficiency
60.	Indi	fference curves that intersect would be illogical constructs because
	(A)	More is better than less.
	(B)	Of diminishing marginal utility.
	(C)	Of the transitivity property of indifference theory.
	(D)	Of both a and c above.

		a	b	c	-
61.	The matrix	d	d	e	is known as
		e	e	$f_{\underline{}}$	

(B) A symmetric matrix

(C) A scalar matrix

- (D) Orthogonal matrix
- If A is an n X n matrix and α is a real number, then 62.
- (A) $\alpha A = \alpha^n A$ (B) $\alpha |A| = \alpha^n |A|$ (C) $|\alpha A| = \alpha^n |A|$ (D) $|\alpha| A = \alpha^n |A|$

- (A) -9
- (C) 10
- (D) -10

- If AR =(15-Q) then MR is equal to
 - (A) 15-Q2
- (B) 15Q-Q² (C) 15Q-Q
- (D) 15Q2-Q

65. If
$$Z = 3y$$
 where $Z = 3y^2$ then $\frac{dz}{dx}$ is equal to

- (A) (2x+5) (B) 10(2x+5) (C) 12(2x+5)
- (D) 11(2x+5)

66. If
$$y = x^5 + x$$
, then $\frac{dy}{dx}$ is equal to

- (A) $\frac{1}{5x^4 + 1}$ (B) $5x^4 + 1$ (C) $5x^4$
- (D) x^{5+x}

67.
$$\int_{1}^{5} 3 x^{2} dx$$
 is equal to

- (A) 120
- (B) 124
- 110 (C)
- (D) 100

68.
$$\int_{1}^{\infty} \frac{dy}{dx}$$
 is equal to

- (A) log b
- (B) log 1
- (C) $\frac{\log 1}{\log b}$

- (A) MR = AR
- (B) MR = MC (C) MC = AC
- (D) AC + MR

70.	For	a relative max	imum ,	the second d	erivative	value at A	0 18			
	(A)	$f'(x_0)<0$	(B)	$f'(x_0)=0$	(C)	$f''(x_0) > 0$		(D)	$f''(x_0) < 0$	0
71.	In p	pursuance wit	h the r	ecommendat	tions of l	Varsimhar	Comr	nittee	, the RB	I has
	fran	ned new guidel	ines							
	(A)	To govern en	try of n	ew private	sector bar	nks to ma	ke the	banki	ng sector	more
		competitive	7							
	(B)	To reduce the network	ne freed	om given t	o banks	to ration:	alize th	neir e	xisting b	ranch
		Hetwork								
	(C)	To set up mo	re foreig	n exchange	banks					
	(D)	To lend more	easily f	or industrial	developr	nent				
72.	Nat	ional Agricultu	ıral Ins	urance Sche	eme repla	cing Com	prehen	sive C	rop Insu	rance
	Sch	eme was introd	luced in	the year						
	(A)	1997	(B)	1998	(C)	1999		(D)	2000	
73.	For	11th plan perio	od 2007	– 2012 savir	ngs rate h	as been ta	rgeted	at —		
	(A)	30.8%	(B)	31.6%	(C)	34.8%		(D)	33.6%	
74.	In 2	010-11, contrib	oution of	service sect	or in cour	ntry's GDF	is esti	mated	at about	
	(A)	48.6%	(B)	50.6%	(C)	57.3%		(D)	52.	
75.	Reve	enue Deficit a	as a pe	r cent of C	DP in I	Budget 20	11-12	has b	een estin	nated
	at —									
	(A)	4.2%	(B)	6.8%	(C)	6.0%		(D)	4.6%	
76.	GST	would be intro	oduced f	rom —						
	(A)	January 1, 20)12		(B)	August 1	, 2011			
	(C)	April 1, 2012			(D)	August 1	5,2011			
77.	Infla	ation in India i	s measu	red on which	n of the fo	llowing in	dexes/i	ndicat	ors?	
	(A)	Cost of Living	g Index		(B)	Consume	r Price	Index		
	(C)	Wholesale Pr	ice Inde	x	(D)	Gross Do	mestic	Produ	ct	

	(A)	1995 (B) 1945	(C)	1948	(D) 1991
79.	Whi	ch among following is not a compone	nt of in	ternational r	eserve
	(A)	Foreign currency assets	(B)	SDR	
	(C)	Gold	(D)	CRR	
80.	Infla	ation in India is measured on which o	of the fo	ollowing inde	xes/indicators?
	(A)	Cost of Living Index	(B)	Consumer p	orice index
	(C)	Wholesale Price Index	(D)	Gross Dome	estic Product
81.	The	second central moment of x is			
	(A)	$\frac{\sum (x-\overline{x})^2}{N} \qquad (B) \qquad \frac{\sum (x-\overline{x})^3}{N}$	(C)	$\frac{(x-x)^2}{N}$	(D) None of these
82.	3rd	quartile value of a data is equal to			
	(A)	25th percentile	(B)	50th percen	tile
	(C)	75th percentile	(D)	10th percen	tile
83.		and the found a correlation of $r = -0.61$ by the found a correlation of $r = -0.61$ by the found in the found in the found $r = -0.61$ by the fo	etween	the gender of	of a worker and his or her
	(A)	Women earn more than men on ave	erage		
	(B)	Women earn less than men on aver	age.		
	(C)	An arithmetic mistake was made; t	his is n	ot a possible	value of r.
	(·D)	This is nonsense because r makes n	o sense	here.	
84.		pose X and Y are independent rando the variance of Y is equal to 9. Let Z			
	(A)	2.65 (B) 5.00	(C)	7.00	(D) 25.00
85.	The	Central Limit Theorem states that:			
	(A)	If n is large then the distribution of normal curve	the sa	mple can be a	approximated closely by a
	(B)	If n is large, and if the population mean must be small.	is nor	mal, then th	e variance of the sample

(C) If n is large, then the sampling distribution of the sample mean can be

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If n is large, then the variance of the sample must be small.

approximated closely by a normal curve

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The World Trade Organization was formed on

86.	A random sample of 15 people is taken Suppose a die is tossed 5 times. What is the		* *
	(A) 0.028 (B) 0.161	(C)	0.167 (D) 0.333
87.	For testing the structural stability in a m	ultiple	e regression model, one can use
	(A) T-test	(B)	Dickey-Fuller Test
	(C) Chow test	(D)	None of the above
88.	For testing joint significance of partial model, one can use	slope	coefficients in a multiple regression
	(A) t-test	(B)	F-test
	(C) Both (a) and (b)	(D)	None of the above
89.	The following can be used to assess the sta	ationa	rity of a stochastic process
	(A) Unit root tests	(B)	Correlogram
	(C) Both (a) and (b)	(D)	None of the above
90.	Which of the following contains qualitativ	e depe	endent variable?
	(A) Linear probability model	(B)	Probit model
	(C) Logit model	(D)	All of the above
91.	Simplest form of stationary process is		
	(A) White noise process	(B)	Random walk with drift
	(C) Both (a) and (b)	(D)	None of the above
92.	For a purely white noise process, autocorr	relatio	ns at various lags hover around
	(A) One	(B)	Zero
	(C) Hundred	(D)	None of the above
93.	Spurious regression is related to		
	(A) Non-stationary process	(B)	Stationary process
	(C) Stochastic process	(D)	None of the above

94.	Which of the following test use non-parametric statistical methods?				
	(A)	Dickey-Fuller test		(B)	Augmented Dickey-Fuller test
	(C)	Phillips-Perron test		(D)	None of the above
95.	Coefficient of determination in a simple regression model measures				
	(A) The correlation between the dependent variable and the error term				
	(B) The regressed sum of squares as a proportion of the total sum of squares				
	(C)	(C) The error sum of square as a proportion of the total sum of squares			
	(D)	None of the above			
96.	Given two unbiased estimators, the estimator with the lower variance is considered as				
	(A)	Consistent		(B)	Efficient
	(C)	Biased		(D)	None of the above
97.	If the expected or mean value of an estimator equals its true value, then the estimator is said to be				
	(A)	Consistent		(B)	Efficient
	(C)	Unbiased		(D)	None of the above
98.	When two explanatory variables in a multiple regression model have exact linear relationship, there exist the problem of				
	(A)	Autocorrelation		(B)	Multicolinearity
	(C)	Simultaneity		(D)	None of the above
99.	99. Which of the following is a log-linear model?				
	(A)	$Y_{t=} \beta_0 + \beta_1 \operatorname{In} X_t + u_t$		(B)	$\operatorname{In} \mathbf{y}_{t} = \beta_{0} + \beta_{1} X_{t} + u_{t}$
	(C)	In $y_t = \beta_0 + \beta_1 \operatorname{In} X_t + u_t$		(D)	None of the above
100.	In simple regression model, if the variance of error term is constant, then errors are said tobe				
	(A)	Homoscedastic		(B)	Heteroscedastic
	(C)	Serially correlated		(D)	None of the above