ENTRANCE EXAMINATION FOR ADMISSION, MAY 2011. M.Phil./Ph.D. (ECONOMICS)

COURSE CODE: 246/108

Register	Number	:			
				Signature o	f the Invigilator date)

COURSE CODE: 246/108

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.
- Do not write your name anywhere in this booklet or answer sheet. Violation of this entails disqualification.
- 3. Read each question carefully and shade the relevant answer (A) or (B) or (C) or (D) in the relevant box of the ANSWER SHEET using HB pencil.
- 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.	The	measure of gross domestic products		
	(A)	includes intermediate inputs		
	(B)	includes residents income from abroa	ad	
	(C)	includes indirect taxes		
	(D)	excludes intermediate inputs		
2.	Gros	ss national product is		
	(A)		n	
	(B)	net national product minus depreciat		
	(C)	net national product minus indirect t		
	(D)	none of the above		
3.	In th	ne classical model, the price elasticity	of aggr	regate supply is
	(A)	close to infinity	(B)	unity
	(C)	less than unity	(D)	zero
4.	In th	ne classical model, aggregate supply cu	iruo ak	aifts outward in reconnecte
Ι.	(A)	increase in employable work force	(B)	increase in productivity of labour
	(C)	increase in the stock of capital	(D)	all are true
	(0)	increase in the stock of capital	(D)	an are true
5.	The	supply of labour is increasing function	of	
	(A)	real wages	(B)	nominal wages
	(C)	inflation	(D)	all are true
6.	The	interest elasticity of speculative dema	nd for	money at Liquidity trap is
	(A)	unity		a 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	(B)	more than unity, but less than infinit	ty	
	(C)	infinity		4.0
	(D)	zero		
7.	Acco	ording to Keynes, income		
	(A)	does not affect speculative demand for	or mon	ey
	(B)	does affect transaction demand for m		
	(C)	does affect precautionary demand for	mone	у
	(D)	all are true		

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8.	The	quantity theory equation im	plies that		
	(A)	inflation equals to growth r	ate of mon	ey su	pply
	(B)	neutrality of money			
	(C)	dichotomy of monetary and	real sector	r	
	(D)	all are true			
9.		ording to Milton Friedm nenced by	nan, cons	sumpt	ion expenditure is significantly
	(A)	transitory income		(B)	permanent income
	(C)	a temporary tax cut		(D)	all are true
10.	An i	ncrease in the commercial ba	anks desire	ed leve	el of excess reserves tends to
	(A)	increase money multiplier		(B)	decrease money multiplier
	(C)	increase income multiplier		(D)	increase tax multiplier
11.	If m	arginal propensity to consun	ne is 0.6, th	nen th	e multiplier is
	(A)	4 (B) 6		(C)	2.5 (D) 0.4
12.		p sum tax and the marginal			expenditure of Rs. 100 cr through a onsume is 0.8. If so, income increases
	(A)	500 cr		(B)	800 cr
	(C)	700 cr		(D)	none of the above
13.	Let	b and c be marginal propens	ity to save	and to	o consume respectively
	(A)	b < 1 if c > 1	10	(B)	b = 0 if c < 0
	(C)	$b<1 \ \mathrm{if} \ c<1$		(D)	none of the above
14.	An i	ncrease in marginal propens	ity to impo	ort	
	(A)	reduces multiplier		(B)	increases multiplier
	(C)	does not affect multiplier		(D)	none of the above
15.	If in	come increases, according to	Keynes, tl	ne ave	erage propensity to consume
	(A)	increases		(B)	falls
	(C)	remains constant		(D)	none of the above

16.	Kuz	Kuznet consumption puzzle refers to	
	(A)	A) constant marginal propensity when there is a rise in income over	time
	(B)	B) constant marginal propensity to save when there is a rise in inco	me over time
	(C)	C) constant average propensity consume when there is a rise in inco	ome over time
	(D)	D) all are true	
17.	The	The IS curve is steeper if interest elasticity of	
	(A)	A) investment demand is close to infinity	
	(B)	B) investment demand is close to zero	
	(C)	C) money demand is close to zero	
	(D)	D) money demand is close to infinity	
18.	A Fl	Flat LM curve implies that interest elasticity of	
	(A)	A) investment demand is close to infinity	
	(B)	B) investment demand is close to zero	
	(C)	C) money demand is close to zero	
	(D)	D) money demand is close to infinity	
19.	Crov	Crowding-out effect is stronger if	
	(A)	A) investment is more interest elastic	
	(B)	B) investment is less interest elastic	
	(C)	C) investment is interest inelastic	
	(D)	D) None of the above	
20.	Mon	Monetary policy is least effective if	
	(A)	A) LM curve is vertical and IS curve is horizontal	
	(B)	B) LM curve is horizontal and IS curve is vertical	
	(C)	C) LM curve is horizontal and IS curve is downward sloping	
	(D)	D) LM curve is upward sloping and IS curve is downward sloping	
21.		When the conditional variance of the Y population varies with X. T. nown as	his situation is
	(A)	A) Homoscedasticity (B) Hetroscedasticity	
	(C)	C) Autocorrelation (D) Multicollinearity	

22.	The precision of the estimat	ors can be measured	by
	(A) Variance	(B)	Standard Deviation
	(C) Standard Error	(D)	Mean
23.	The range of R ² lies between	1	
	(A) -1 and +1	(B)	0 and +1
	(C) -1 and 0	(D)	None of the above
24.	The coefficient of correlation	ırisa	
	(A) Casual relationship be	tween two variables	
	(B) Functional relationshi	p between two yarial	oles
	(C) Linear association bet	ween two variables	
	(D) None of the above		
25.	The ML method is called a		
	(A) Small sample method	(B)	Large sample method
	(C) Both (A) and (B)	(D)	None of the above
26.	Growth rate is usually meas	sured by	
	(A) Linear model	(B)	Double log model
	(C) Translog model	(D)	2SLS model
27.	Econometric Analysis make	s use of	
	(A) Deterministic relation	ship (B)	Statistical relationship
	(C) Autocorrelated relation	nship (D)	None of the above
28.	The term multicollinearity i	s due to	
	(A) Marshall	(B)	Arrow
	(C) Pigou	(D)	Ragnar Frisch
29.	Glejser test is used to deduc	t	
	(A) Multicollinearity	(B)	Hetroscedasticity
	(C) Autocorrelation	(D)	Correlation
30.	High degree of association b	etween successive er	ror term is known as
	(A) Hetroscedasticity	(B)	Multicollinearity
	(C) Autocorrelation	(D)	Homoscedasticity

31.	Adj	usted R ² is normally associated with		
	(A)	Degrees of freedom		
	(B)	Degrees of error		
	(C)	Explanatory power of simultaneous e	quati	on model
	(D)	None of the above		
32.	In t	he normal curve, the value of skewness	is	
	(A)	0 (B) 3 (C)	-1	(D) +1
33.	Firs	t Difference technique is used to solve	the pr	roblem of
	(A)	Autocorrelation	(B)	Multicollinearity
	(C)	Hetroscedasticity	(D)	Errors in variables
34.	R ² is	S		
	(A)	Always greater than R ²	(B)	Always positive
	(C)	Can never be indeterminate	(D)	None of the above
35.		regression model of the form $Y = \alpha + \alpha$ es not influence Y at all if	βX +	U, one can come to a conclusion that
	(A)	$\alpha = 0$ (B) $\beta \neq 0$	(C)	$\beta = 0$ (D) $1/\beta = -1$
36.	A sc	atter diagram		
	(A)	is a statistical test	(B)	must be linear
	(C)	must be curvilinear	(D)	is a graph of x and y values
37.		correlation co-efficient appropriate f ween the two variables assuming a line		
	(A)	is determined by the sample size	(B)	is Spearman's R
	(C)	is Pearson's 'r'	(D)	none of the above
38.	Met	hod of least squares is based on the pri	nciple	of
	(A)	Sum of residuals is equal to zero	(B)	Sum of squares of residuals is least
	(C)	Both (A) and (B)	(D)	None of the above
39.	If on	ne regression co-efficient is greater than	unit	y, then the other must be
	(A)	equal to zero	(B)	less than unity
	(C)	equal to unity	(D)	greater than unity

40.	The	regression lines	cut each	other at th	ne point o	f		
	(A)	average of x an	d y only		(B)	average of y	only	
	(C)	the median of	k and y		(D)	none of thes	se	
41.	The	regression lines	are coinc	cident prov	ided			
	(A)	r = 0	(B) r	= 1/3	(C)	r = -1/2	(D)	$r = \pm 1$
42.	Reg	ression of Y on X	is					
	(A)	used to explain	the vari	ation in the	e value of	X for chang	es in Y	
	(B)	used to explain	the vari	ation in the	e value of	Y for chang	es in X	
	(C)	used to explain	the vari	ations in th	ne value o	of Y for no ch	ange in X	
	(D)	None of the abo	ove					
43.	E(X	+Y) =						
	(A)	E(X) = E(Y)			(B)	E(X) - E(Y)		,
	(C)	E(Y)-E(X)			(D)	None of the	above	
44.	Whi	ch of the following	ng proper	ties does n	ot belong	to a position	n distribu	tion?
	(A)	Mean and varia	ance are	same -				
	(B)	It is a discrete	probabili	ty distribu	tion			
	(Ç)	Mean = Median	n = Mode					
	(D)	The third mom	ent is eq	ual to mear	n			
45.	The	standard norma	l curve h	as the para	ameter			
	(A)	(μ, σ^2)			(B)	(0, 1)		*
	(C)	(1,0)			(D)	None of the	above	
46.	The	size of the small	sample	is				
	(A)	$n \le 30$	(B) n	> 30	(C)	n < 30	(D)	All the above
47.	Whi	ch of this is a no	n-randon	n sampling	method?			
	(A)	. systematic san	pling		(B)	stratified sa	ampling	
	(C)	quota sampling	3		(D)	multi stage	sampling	3
48.	Exp	onential curve d	enotes th	e functions	al form			
	(A)	y = a + bx	(B) y	$=ab^{t}$	(C)	$y = \alpha$	(D)	y = bx

49.	Data arranged according to time	e are called		
	(A) cross-section data	(B)	panel data	
	(C) time-series	(D)	none of the abo	ove
50.	If A and B are mutually exclusive	ve events then P	(AB) is	
	(A) 1 (B) ∞	(C)	0	(D) none of these
51.	If we denote by E_1E_2 the event "	both E ₁ and E ₂ o	ccur" sometimes	called a
	(A) compound event	(B)	independent e	vents
	(C) dependent events	(D)	none of the abo	ove
52.	For Normal Distribution, the me	oment co-efficien	t of Kurtosis i.e.	, β_2 is equal to
	(A) 2	(B)	3	
	(C) 1	(D)	None of the ab	ove
53.	The β_1 for the Poisson distribut	ion is		
	(A) $1/\sqrt{m}$	(B)	1/2 m	
	(C) 1/m	(D)	none of the abo	ove
54.	Logistic curve refers to the func	tional form		
	$(A) y = k/1 + e^{bt} \qquad (B) y = k$	x/1+e ^{a+bt} (C)	$y = k/e^{bt}$	(D) $y = k/e^{a+bt}$
55.	The formula for Binomial distrib	bution is		
	$(A) n \ p^r \ q^{n \cdot r}$	(B)	$n \qquad p^{n\text{-}r}q^r$	
	c		c	
	r		r	
	(C) np ^r q ^r -	(D)	none of the abo	ove
	С			
	r			
56.	If $Q_d = a$ -bp and $Q_s = -c + dp$, the	nen the equilibri	um quantity Q is	3
	(A) $ad + bc / b + d$ (B) $a + d$	c/b+d (C)	ad - bc / b + d	(D) $a - c / b + d$
57.	A function such as $Y = x - 1 / x^2$	+2x + 4 is a		
	(A) Linear function	(B)	Rational funct	ion
	(C) Quadratic function	(D)	Cubic function	

58.	(A^T)	T = ?								
	(A)	A^{T}	(B)	A-1		(C)	A		(D)	1/A ^T
59.	If fo	r a given matrix	A, A	= 0, then t	the m	atrix	A is said	to be		
	(A)	singular				(B)	non-sing	gular		
	(C)	both (A) and (B)			(D)	None of	the abo	ve	
60.	If y=	=3x ² -4, then dy/o	dx = ?							
	G. CO. C. 14	3x	(B)	2x		(C)	3x-4		(D)	6x
61.	If q	$= 2+v^2$ then $\lim_{\nu \to 0}$	is ed	qual to						
	(A)	2	(B)	2 + 2v		(C)	2v		(D)	4
62.	The	variance of a con	stant	function y =	= f(x)	= k	is			
	(A)	one				(B)	zero			
	(C)	00				(D)	none of	the abo	ve	
63.		en a short-run to tion is	tal cos	st function C	$C = Q^3$	- 46	$Q^2 + 10Q +$	75, the	en the	marginal cost
	(A)	$Q^2 - 8Q + 10$	(B)	$3Q^2 - 8Q +$	10	(C)	$Q^2 + 10$		(D)	$2Q - 8Q^2$
64.	If A	R = 15-Q, then th	e tota	al revenue (T	R) fu	nctio	n is			
	(A)	$15-Q^2$	(B)	15Q-Q		(C)	$15Q-Q^2$		(D)	15+Q ²
65.	If z	= y-3 where y = :	x³, the	en dz/dx is e	qual t	0				
	(A)	$3x^2$	(B)	x^2		(C)	3x		(D)	3
66.	Give	$en y = x^5 + x then$	dx/dy	is equal to						
	(A)	5x4+1				(B)	$5x^4$			
	(C)	$1/5x^4+1$				(D)	none of	the abo	ve	
67.	The	formula for the p	oint (elasticity of	y witł	n resp	ect to x is	S		
	(A)	Marginal functi	on/Av	verage functi	ion	(B)	Average	functio	n/Ma	rginal function
	(C)	Both (A) and (B	.)		10.	(D)	None of	the abo	ve	
68.	A fu	nction $y = f(x) = 3$	3x4 is	called an						
	(A)	Implicit functio	n			(B)	Inverse	function	n	
	(C)	Explicit functio	n			(D)	Linear f	unction		

69.	For	a relative maxir	num, the seco	nd deriva	ance a	t xo is			
	(A)	$f^{"}(x_0)<0$			(B)	$f"(x_0)>0$			
	(C)	$f''(x_0) = 0$			(D)	None of the	e above		
70.	d/dt	A ert is equal to							
		A e ^{rt}	(B) r A ert		(C)	ert	(D)	1/ert	
71.	logic	1000 = ?							
	(A)	2	(B) 1		(C)	3	(D)	0	
72.	Acco	ording to Young	s theorem, wh	ich of the	e follo	wing is true			
	(A)	$f_{xy} = f_{xy}$			(B)	$f_{xx} = f_{yy}$			
	(C)	$f_x = f_y$			(D)	None of the	above		
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13.	J 1/3	x dx = ?							
	(A)	log x			(B)	$\log x + c$			
	(C)	x + e			(D)	none of the	above		
	<i>b</i>								
74.	$\int_a f($	(x)dx = ?							
	(A)	One			(B)	Zero			
	(C)	Infinity			(D)	None of the	e above		
75.	Whi	ch one of the fol	lowing statem	ents is co	orrect	?			
	(A)	A firm's long Average cost c		cost cur	ve is	derived from	m a serie	es of sho	rt-run
	(B)	There is no rel	ationship betv	veen sho	rt-run	and long-ru	n average	cost curv	res
	(C)	A firm's short- Curve	run average o	cost curve	e is de	erived from i	ts long-ru	ın averag	e cost-
	(D)	Long-run total	cost is the sur	m of long	g-run f	fixed and lon	g-run ave	rage costs	3.
76.	Whi	ch one of the fol	lowing is repr	esented b	oy a re	ectangular hy	vperbola?		
	(A)	Average fixed	cost curve .	(B)	Ave	rage variable	cost driv	re	
	(C)	Production pos	ssibility curve	(D)	Exp	ansion path			
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77.		he Cobb-Douglas production function of the form, X = b ₀ , L ^b 1, K ^b , which one of following is correct? (X=output, L=labour and K=capital)
	(A)	Elasticity of substitution is equal to unity
	(B)	Factor-intensity is measured by the ratio, b_1 / b_2
	(C)	Organisational and entrepreneurial efficiency is measured by b_{θ}
	(D)	All of these
78.	the	pose a consumer is consuming two somewhat substitutable goods X and Y and price of X increases. What is the nature of consumer's demand for X if he eases his expenditure on X?
	(A)	Unitary elastic (B) Perfectly inelastic
	(C)	Elastic (D) Inelastic
79.		ch one of the following is not the basic assumption of indifference curve roach of consumer theory?
	(A)	Consumer is able to set up preference ranking of the combination of goods and services
	(B)	Consumer is able to measure the utility
	(C)	The ranking is consistent
	$(\mathbf{D})_{\underline{c}}$	Consumer prefers more to less of a commodity
80.	Whi	ch one of the following is the correct statement?
	In th	ne case of Giffen goods
	(A)	Substitution effect is negative
	(B)	Income effect is negative
	(C)	Income effect is stronger than the substitution effect
	(D)	All of these
81.	Wha	at does the Coase's theorem deal with?
12	(A)	Internalisation of externalities
	(B)	Pricing of public goods
	(C)	Solution to the problem of externalities of terms of well defined and Ex-changeable property rights
	(D)	None of the above

82.	Whi	ich one of the following is the corr	rect stateme	nt?
	(A)	discriminating monopoly	(B)	monopolistic competition
	(C)	single-price monopoly	(D)	perfect competition
83.	Whi	ich one of the following statement	ts is correct?	
	In I	ndia, estimates of National Incom	ne are based	on
	(A)	net income method only		
	(B)	net output method only		
	(C)	net income, net output and net	expenditure	methods
	(D)	net expenditure method only		
84.	Whi	ich one of the following is the corr	ect stateme	nt?
		ndustries displaying increasing r chieve optimality, there has to be		ale and operated by the public sector
	(A)	a subsidy to the consumer only		
	(B)	a tax on the industry		
	(C)	a tax on the consumer and subs	idy to the pr	roducer
	(D)	a subsidy to the consumer and a	a tax on the	producer
85.	is R			Rs. 75,000 crores relending to States 25,000 crores, what is the amount of
	(A)	Rs. 50,000 crores	(B)	Rs. 25,000 crores
	(C)	Rs. 1,00,000 crores	(D)	Rs. 1,25,000 crores
86.		ch one of the following phenom	enon explai	ns the free rider problem in public
	(A)	Ticketless travel in the Indian I	Railways	
	(B)	Economics of horse racing and t	he breeding	of horses
	(C)	Economics of all types of pure p	ublic goods	
	(D)	Preference non-revelation in the	e case of goo	ds where consumption is joint
87.	Whi	ch one of the following is the corr	ect stateme	nt?
	The	factor price equalization theorem	is a corolla	ry of
	(A)	the Ricardian trade theorem		
	(B)	the Heckscher-Ohlin theorem		
	(C)	imperfect competition model of	trade	
	(D)	none of the these		

88.	Which one of the following pairs is not correctly matched?						
	(A)	Tariff quota : Non-tariff barrier					
	(B)	Export subsidy : Tariff barrier					
	(C)) Ad valorem duty : Tariff barrier					
	(D)	Multi-fibre arrangement: Non-tariss barrier					
89.	Wha	hat is a countervailing duty?					
	(A)	A) A lower duty on raw material by the importing country to enhance the competitiveness of final product exports.					
	(B)	A duty to raise more revenue by the Government for subsidizing exports					
	(C) An import duty on tariff imposed by an importing country to raise the price of a subsidized export product to offset its lower price						
	(D)	A lower tariff on imported commodity produced by a monopoly industry in the exporting country.					
90.	Which one of the following items is included in the capital account of the balance of payments of a country?						
	(A)	Invisibles (B) Investment income					
	(C)	Commercial borrowings (D) Private transfers					
91.	Which one of the following is the nature of convertability of the Indian currency?						
	(A)	convertibility at trade account (B) convertibility at current account					
	(C)	convertibility at capital account (D) Freely convertible					
92.	Whi	Which one of the following is not an affiliate of the World Bank?					
	(A)						
	(B)						
	(C)	The International Development Association					
	(D)	The Asian Development Bank					
93.		What does inverted U shaped Kuznet's curve depict where PCY stands for per capita income?					
	(A)	A) As PCY increases, equality of income increases and then falls					
	(B)	(B) As PCY increases, inequality of income increases and then falls					
	(C)	PCY and inequality are inversely related to each other					
	(D)	D) PCY and equality of incomes are inversely to each other					

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94.	Which one of the following is the correct statement?							
	According to Harrod, technical change is said to be capital saving if it							
	(A)	a) raises the capital output ratio						
	(B)	leaves the capital output ratio unchanged						
	(C)	lowers the capital output ratio						
	(D)	raises the capital labour ratio						
95.	Which one of the following is not included under WTO regulations?							
	(A)							
	(B)	Removal of import tariffs						
	(C)							
	(D)	Removal of price controls						
96.	Which one of the following is the correct statement?							
	The "Sen measure" of poverty is said to measure the distribution of welfare rather than merely the distribution of wealth in a society because							
	(A)	it defines poverty in terms of minimum level of living						
	(B)	it measures the energy requirement	s of a h	ousehold				
	(C)							
	(D)	it seeks to measure the income shortfall of each person below the poverty line						
97.	Which one of the following criteria gives the estimate of the extent of under- utilization of the labour force in terms of person days?							
		CWS criterion	(B)	CDS criterion				
	(C)	UPS criterion	(D)	UPSS criterion				
98.	In which type of unemployment, marginal productivity is zero or near zero?							
	(A)	Structural (B) Disguised						
99.	Mahalanobis plan model was adopted from which growth model?							
	(A)	Harrod-Domar model	(B)	Feldman's model				
	(C)	Lewis model of economic growth	(D)	Ranis-Fei model				
100.	Which one of the following is the basic objective of monetary policy?							
	(A)	To control deficit of the budget	,					
	(B)	To control deficit in the balance of p	avment					
	(C)							
	(D)	To control public expenditure						
	,							