## ENTRANCE EXAMINATION FOR ADMISSION, MAY 2012.

## M.Sc. Five Year Integrated Programme (Economics)

COURSE CODE: 309

Register Number :		
		Signature of the Invigilator (with date)

COURSE CODE: 309

Time: 2 Hours Max: 400 Marks

## Instructions to Candidates:

- 1. 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.
- 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.
- Do not attempt to answer after stop signal is given. Any such attempt will disqualify your candidature.
- 8. 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.	AVAHAN - The Indian segment of Bill and Melinda Gates foundation (BMCGF) is engaged in the prevention of							
	(A)	Dengue	(B)	Polio				
	(C)	HIV/AIDS	(D)	Filariasis				
2.		ich one of the following public sector b ir faithfull and friendly financial part			d the word			
	(A)	Punjab National Bank	(B)	Syndicate Bank				
	(C)	Bank of India	(D)	State Bank of India				
3.		ch of the following country's central n IMF in October 2009	bank	has procured 200 metric to	ons of gold			
	(A)	China (B) Srilanka	(C)	India (D) Sin	gapore			
4.	Pira	mal life science is a/an						
	(A)	Life insurance company						
	(B)	Drug research company						
	(C)	Special economic Zone						
	(D)	PSU dealing with healthcare ameni	ties					
5.	Boli	var is the monetary unit of						
	(A)	Venezuela (B) Brazil	(C)	Bolivia (D) Bel	arus			
6.	Blue	etooth technology allows						
	(A)	Wireless communication between ed	quipme	ents				
	(B)	Signal transmission on mobile phon	ies					
	(C)	Landline to mobile phone communic	cation					
	(D)	Satellite television communication						
7.	Who	discovered the solar system?						
	(A)	Newton (B) Kepler	(C)	Aryabhatta (D) Cop	pernicus			
8.	The	vitamins which is/are generally excre	eated i	n urine is/are				
	(A)	Vitamin A	(B)	Vitamin B				
	(C)	Vitamin C	(D)	Vitamin D and K				
9.	In c	omputer language, one kilobyte equal	ls					
	(A)	1000 bytes	(B)	1024 bytes				
	(C)	100 bytes	(D)	8 bytes				

10.	A co	mputer progra	mmer					
	(A)	Enters data i	nto com	puter				
	(B)	Writes progra	ams					
	(C)	Changes flow	chart i	nto instruction	s			
	(D)	Provides solu	itions to	complex proble	ems			
11.	The	longest river o	of the wo	orld is:				
	(A)	Nile			(B)	Amezan		
	(C)	Ganges			(D)	Brahmaputra		
12.	The	highest mount	tain in t	he world is				
	(A)	Karakoram-2	2		(B)	Everest		
	(C)	Alpus			(D)	Kanchanjangha	ì	
13.	The	great wall is lo	ocated in	1				
	(A)	United States	s of Ame	erica	(B)	Brazil		
	(C)	Germany			(D)	China		
14.	The	land of rising	sun is					
	(A)	Japan			(B)	Norway		
	(C)	United Kingd	lom		(D)	India		
15.	Whi	ch place is kno	wn as tl	he roof of the w	vorld			a
	(A)	Bhutan	(B)	Nepal	(C)	Tibet	(D)	Myanmar
16.	Who	is the author	of "Anaı	nd Math"?				
	(A)	Rabindranatl	h Tagore	e	(B)	Bankim chandi	a Cha	ttopadhyaya
	(C)	Sarojini Naya	adu		(D)	Jyotiba Phule		
17.	Thir	npu is the capi	ital of					
	(A)	Nepal	(B)	Bhutan	(C)	Thailand	(D)	Myanmar
18.	The	mass-energy e	quivale	nce, relationsh	ip B =	mc2 was propour	ided by	y
	(A)	Einstein	(B)	Max Plank	(C)	Newton	(D)	Hertz
19.	The	filament of bu	lb is ma	de of				
	(A)	Tungsten	(B)	Iron	(C)	Nichrome	(D)	Carbon

20.	Widal test is used for susceptibility of				
	(A) Malaria (B) Typhoid	(C)	Cholera	(D)	Yellow fever
21.	Pankaj Advani is associated with				
	(A) Archery	(B)	Golf		
	(C) Shooting	(D)	Snooker		
22.	Who is known as Nightingale of India				
	(A) Asha Bhonsle	(B)	Begum Akhtar		
	(C) Sarojini Naidu	(D)	Vijaylaxmi Pand	it	
23.	Which acid is normally found in lemon a	nd grap	e fruits?		
	(A) Citric acid	(B)	Tartaric acid		
	(C) Ascorbic acid	(D)	Lactic acid		
24.	Who was the founder of Brahmo Samaj?				
	(A) Raja Rammohan Roy	(B)	Aurobindo Ghosl	n	
	(C) Vivekanand	(D)	Dyanand Sarasw	ati	
25.	The Olympic Games 2012 will be held in				
	(A) Moscow (B) Paris	(C)	New York	(D)	London
26.	If $y = \log x$ then $dy/dx$ is				
	(A) 1/x (B) x	(C)	1	(D)	None of these
27.	If $f(x) = (3x^2 + 5x + 2)/(x^3 - 7x + 14)$ then	f(2) is			
	(A) 2 (B) 11/4		3	(D)	2/3
00	1: (5 2 0 0)(0 2 0 1):				
28.	$\lim_{x \to 1} (5x^2 - 2x - 3)/(3x^2 - 2x - 1)$ is				
	(A) 1 (B) 2	(C)	0	(D)	None of these
	[2 1]				
29.	If $A = \begin{bmatrix} 3 & 4 & 7 \\ 5 & 6 & 1 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 1 \\ 3 & 5 \\ 6 & 2 \end{bmatrix}$ then wh	at is A	B?		
	(A) $\begin{bmatrix} 60 & 37 \\ 34 & 31 \end{bmatrix}$		60 37 34 37		
		(2)	[34 37]		
	(C) $\begin{bmatrix} 57 & 37 \\ 43 & 31 \end{bmatrix}$	(D)	None of these		

30. Find 
$$\int_{0}^{2} (3x^{2} + 6x - 8) dx$$

(A) 0

- (B) -4
- (C) 4

(D) 2

31.  $(\log_b a \log_c b \log_a c)$  is equal to

(A) 0

- (B)
- (C) abc
- (D) a+b+c

32.  $\left(\sin^2 x - \tan^2 x + \sec^2 x + \cos^2 x\right)$  is equal to

(A) 2

(B) 1

(C) 0

(D) None of these

33. Let  $f(x) = \tan(x)$ . What is the domain of f(x)?

(A) (-∞, 0)

(B) (0, ∞)

(C)  $(-\infty, \infty)$ 

(D) None of these

34.  $\lim_{x\to 0} \left(1 - \left(\frac{\sin(x)}{x}\right)\right)$  is

(A) 1

(B) 0

(C) · ∞

(D) None of theses

35. If  $|1-x| \le 3$  then which one is true

(A)  $-2 \le x \le 3$ 

(B)  $-1 \le x \le 3$ 

(C)  $0 \le x \le 3$ 

(D)  $-2 \le x \le 4$ 

36. 5! is

- (A) 0
- (B) 60
- (C) 40
- (D) 120

37.  $1+x+\frac{1}{2!}x^2+\frac{1}{3!}x^3+\frac{1}{4!}x^4+\cdots$  is

(A)  $\log(1+x)$ 

(B) e

(C) e-x

(D)  $\log(1-x)$ 

38	Solution(s) to the	equation $x^3 - x^2 - 4x$	+4 = 0  is/	are		
	(A) -2,1,2			-1,0,2		
	(C) $-2, 0, 1$		(D)	-1,0,1		
		Γο	07			
39.	Determinant of th	ne matrix $A = \begin{bmatrix} 2 & 1 \\ 4 & 5 \end{bmatrix}$	6 is			
		7 8	_			
	(A) 14	(B) 9	(C)	10	(D) -9	
40.	If $\log_{100000} x = -1/$	5 then x is equal to				
	(A) 1/100	(B) 1	(C)	1/10	(D) 10	
41.		e the matrices of orde	er 23 × 25	, 25×3, 3×16 t	hen what is the or	de
	of ABC (A) 23 × 3		(B)	23 × 16		
	(C) $25 \times 23$			None of these		
	(0) 20 20		(12)	rone or these		
42.	What is $x^{\log(1)}$					
	(A) 0	(B) ∞	(C)	x	(D) 1	
43.	What is the range	e of the function $f(x)$	=  x			
	(A) $(0, \infty)$		(B)	$(0, \infty)$		
	(C) $(-\infty, \infty)$		(D)	None of these		
44.	$C_2^5 + P_1^{10}$ is equal	to				
	(A) 10		(B)	15		
	(C) 20		(D)	None of these		
45.	What is the numl	per of solution for the	equation	$\log_4^{x-1} = \log_2^{x-3}$		
	(A) 0		(B)	1		
	(C) 2		(D)	None of these		
46.	How many words	can be formed from	letters of t	he word PUDU	CHERRY?	
	(A) 10!	(B) 2*10!	(C)	10!/2!	(D) 10!/(2! * 2!	)

47.	What is the probability tha	at a leap year	chosen	randomly will co	ntain 8	53 Sundays?	
	(A) 1/7 (B)	2/7	(C)	3/7	(D)	4/7	
48.	Find slope of the line 4y+	3x = 15					
	(A) -3/4 (B)	3/4	(C)	-4/3	(D)	4/3	
49.	Which point lies on the cur	eve $x^2 + y^2 - 2x$	x-2y+	2 = 0			
	(A) (1,1) (B)	(-1,1)	(C)	(1, -1)	(D)	(0,0)	
50.	The average of 2,7,6 and a value of y?	is 5 and the	average	e of 18, 12, x an	dy is	10. What is t	he
	(A)) 20 (B)	10	(C)	5	(D)	30	
	For questions 51 to 68, fi following four options	ll up the blan	nks cho	osing the most	approp	oriate from t	he
51.	He ——— in his r	emote colony s	since 19	90.			
	(A) Lives		(B)	Has been livin	g		
	(C) Has lived		(D)	Continues to li	ve		P
52.	She has studied French						
	(A) Since 4 years		(B)	From 4 years			
	(C) For 4 years		(D)	Since 4 years a	igo		
53.	I felt that music was						
	(A) Sweetly and smoothi	ngly	(B)	Sweet but soot	hing		
	(C) Sweetly and smoothi	ng	(D)	Sweet and soot	thing.		
54.	He is not in the —	— of his ma	aster				
	(A) Good books		(B)	Better book			
	(C) Best book		(D)	Good book			
55.	In his lecture he dealt——	the	e causes	s of Gulf war			
	(A) With (B)	On	(C)	For	(D)	About	
56.	Would you mind —	— me with	n your s	uggestions			
	(A) Help (C)	To help	(C)	Helning	(D)	Of helping	

57.	Mahatma Gandhi was simple and in	nocent; his behavior was	
	(A) Childish (B) Child like	e (C) Proud (D) Humble	)
58.	At last we realized		
	(A) What was the truth	(B) What the truth was	
	(C) The truth was	(D) What was truth	
59.	I want to see the film as it	— by Satyajit Ray	
	(A) Is being directed	(B) Had been directed	
	(C) Was directed	(D) Had directed	
60.	Only three-fourths of the work		
	(A) Are complete	(B) Is complete	
	(C) Has completed	(D) Have Completed	
61.	His wife passed away five years ago.	Since then he has been living as a	
	(A) Divorcee	(B) Widower	
	(C) Misogynist	(D) Celibate	
62.	Every sensible citizen abides —	law of the country	
	(A) To (B) By	(C) For (d) With	
63.	Most of the issues discussed here in t	he meeting were trivial and only few were	
	(A) Interesting	(B) Practical	
	(C) Significant	(D) Irrelevant	
64.	Questions will be answered by a ——	of experts	
	(A) Staff	(B) Panel	
	(C) Bunch	(D) Band	
65.	The villagers — the deat	th of their leader by keeping all shops close	d
	(A) Consoled	(B) Avenged	
	(C) Mourned	(D) Protested	
66.	No sooner had he entered the room - started talking loudly	the light went out and ever	ry on
	(A) But (B) Than	(C) If (D) And	

67.	He pr	efers seeing the	film		- readin	ng		
	(A)	Than	(B)	То	(C)	Over	(D)	as
68.		has been nomines; he is the	ated a	as the person t	o settle	e the dispute betw	een t	he two warring
	(A)	Judge	(B)	Advocate	(C)	Arbitrator	(D)	Barrister
	For qu	uestions 69 and	70, c	hoose the word	neares	st in meaning to tl	ne giv	ven word
69.	Fragi	le						
	(A)	Strong	(B)	Grave	(C)	Weak	(D)	Showy
70.	Emac	iated						
	(A)	Very tall	(B)	Very sleepy	(C)	Very thin	(D)	Very aged
	For qu	uestions 71 to 7	3, cho	ose the opposi	te of th	e given word		
71.	Extro	vert						
11.		Boaster	(B)	Mixer	(C)	Introvert	(D)	Social
72.	Urbai		(T)			Q: 1	(T)	
	(A)	Rustic	(B)	Rural	(C)	Civil	(D)	Domestic
73.	Genu	ine						
	(A)	rotten	(B)	Bogus	(C)	Unsound	(D)	Impure
	For q	uestions 74 to 7	5, wri	te exact mean	ing of t	he underlined idio	m	
74.	It is e	vident from the	mini	ster's statemer	nt that	heads will roll		
	(A)	Transfers will t	ake p	lace				
	(B)	People will die						
	(C)	Dismissal will o	occur				- 2	
	(D)	Heads of depar	tment	will have to re	epent			
75.	His de	ealings are <u>abo</u> v	ve boa	rd				
	(A)	Simple	(B)	Decent	· (C)	Open	(D)	Friendly
76.	Who i	s the father of l	Econo	mics?				
		A.C. Pigou			(B)	Alfred Marshall		
		Adam Smith			(D)	J. S. Mill		

77.	Excl	hange of goods for goods is known as		
	(A)	Mixed economy	(B)	Barter economy
	(C)	Socialist economy	(D)	Capitalist economy
78.	Con	sumer Surplus is		
	(A)	Potential Price – Actual Price	(B)	Demand = Supply
	(C)	MC - MR	(D)	None
79.	Law	of Demand states that		
	(A)	Positive relationship between price a	and qu	antity
	(B)	Negative relationship between price	and q	uantity
	(C)	Both (A) and (B)		
	(D)	None		
80.	The	proportion of response of demand to c	hange	in price is
	(A)	Income elasticity of demand	(B)	Cross elasticity of demand
	(C)	Price elasticity of demand	(D)	None
81.	The	equilibrium price is		
	(A)	Supply < Demand	(B)	Supply> Demand
	(C)	Supply = Demand	(D)	None
82.	The	remuneration paid to the capital is		
	(A)	Interest	(B)	Wages
	(C)	Rent	(D)	Profit
83.	Mar	ginal Revenue is the least addition m	ade to	the
	(A)	Average revenue	(B)	Total production
	(C)	Total revenue	(D)	Total cost
84.	A fin	rm can achieve equilibrium when its		
	(A)	MC = MR	(B)	MR = AR
	(C)	AC = MC	(D)	MR=AC

85.	Y =	C + 1 is a		
	(A)	Function	(B)	Identification
	(C)	Formula	(D)	None
86.	Mon	netary policy is controlled by		
	(A)	Central government	(B)	State government
	(C)	Central bank	(D)	Private bank
87.	Acco	ording 2001 Census, the population of	f India	was
	(A)	236 million	(B)	890 million
	(C)	1000 million	(D)	1027 million
88.	Nea	rly 64% of labour force in India is eng	raged i	n
00.	(A)	Agriculture	(B)	Industry
	(C)	Foreign trade	(D)	Service
00	m			77.
89.		goods which are non-rival in consum		
	(A)	Private goods	(B)	Free goods
	(C)	Public goods	(D)	Non-economic goods
90.	Key	nesian economics lays more emphasis	son	
	(A)	Monetary policy	(B)	Interest-rate determination
	(C)	Fiscal policy	(D)	Free market mechanism
91.	Whe	en government expenditure exceeds t	otal go	overnment receipts, the budget deficit
	(A)	Positive	(B)	Negative
	(C)	Zero	(D)	Intermediate
92.		gner's law predicts that the development in increased share of public expenditu		an — will be accompanied gross national product'.
	(A)	Industrial economy	(B)	Agricultural economy
	(C)	Capitalist economy	(D)	Both (A) and (C)
93.	If a	country devalues its currency; it stan	ds to g	gain as a result of
	(A)	Increased imports at lower prices	(B)	Increased exports
	(C)	Fall in domestic price	(D)	Increased domestic production

94.	Whi	ch of the following is not a factor of pr	oduct	ion?		
	(A)	Land (B) Labour	(C)	Capital	(D) Mon	ey
95.	All	of the following are determinants of su	apply o	except		
	(A)	Price	(B)	Income level		
	(C)	Objectives of the firm	(D)	Level of techn	nology	
96.	All	of the following are determinants of de	emand	lexcept		
	(A)	Price	(B)	Taste		
	(C)	Supply	(D)	Price of other	goods	
97.	Low	agricultural productivity in developing	ng cou	ntries is mainl	y caused by	
	(A)	Shortages of inputs, including land				
	(B)	Migration from rural areas to urban	areas	3		
	(C)	Lack of effective demand for food pre	oducts	3		
	(D)	over investment in farm equipment				
98.	Mac	roeconomics deals with				
	(A)	Economic aggregates				
	(B)	The behaviour of the electronics ind	ustry			
	(C)	The behaviour of firms				
	(D)	The activities of individual units				
99.	Infla	ation is				
	(A)	An increase in the overall price level	l			
	(B)	A decrease in the overall price level				
	(C)	An increase in the overall level of ec	onomi	c activity		
	(D)	Decrease in the overall level of econo	omic a	ctivity		
100.	Une	employment means that				
	(A)	There are some people who will not	work :	at the going wa	ge rate	
	(B)	At the going wage rate, there are pe	ople w	ho want to wo	rk but cannot	find work
	(C)	There is excess demand in the labour	r mar	ket		
	(D)	None of the above				