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Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

Fourth Semester BA Economics Degree Examination, March 2017 ECO4B06 – Computer Application for Economic Analysis

(2015 Admission onwards)

N 4		ssion onwards)	
Max.	Time: 3 hours Part		Max. Marks:
	Objective type questions		
1.	helps to preview the slides in thu		P47
	a) Status Bar	b) Scroll Bar	
	c) Slide sorter view	d) Title Bar	
2.	Which among the following represents a un		H. Grad.
	a) (A10:A20)	b) (B10:B20)	
	c) (A10, A20)	d) 10A	
3.	Which among following is not a malware?	الأحدى بالمان للانتجاب المناب	
	a) Firewall	b) Adware	
	c) Spyware	d) Scareware	
4.	helps to show the trend in a variable	?	
	a) Line Graph	b) Pie Chart	
	c) Scatter Plot	d) Bar Chart	* ·
5.	The Conditional sum wizard is an add-in f		
	a) PowerPoint	b) Excel	
	c) Word	d) Access	
6.	The short cut for select all		
	a) Ctrl+S	b) Ctrl+L	
	c) Ctrl+A	d) Ctrl+B	
7.	Which of the following is not related with		
	a) Foot Note	b) Greeting line	
	a) Main Document	b) Data Source	الرواة والشوادة
8.	consists of various groups under ea		
	a) Button	b) Title bar	
	c) Ribbon	d) Status bar	
9.	Which of the following is not the example		e-commerce?
	a) Amazone.com	b) e-bay.com	c-commerce:
	c) dell.com	d) lastminute.com	
10.	URI Stands for	d) lastifiliate.com	
10.	a) Uniform Resource Indicator	b) Uniform Resource Identifier	and the paper of
	c) Uniform Resource Indication	d) Uniform Resource Integration	
11.	Touch Screen is	a) Official Resource integration	
A	a) Input device	b) Output device	
	c) Primary storage device		
12.	•	d) Secondary storage device	in India
ΙΔ.	Which among the following agency condu a) IIPS		m maia.
		b) CSO	
	c) NSSO	c) ICSR	
		(12 x)	$\frac{1}{2} = 6 \text{ Marks}$

Part B

Very Short Answer Type Questions. Answer any 10 questions.

- 13. What you mean ribbon in MS Word?
- 14. Define malware.
- 15. What is main frame computer?
- 16. Explain how to insert a table in word.
- 17. Distinguish between webpage and website.
- 18. Define formula syntax.
- 19. Distinguish between Linear and Nonlinear trend line.
- 20. Briefly highlight the benefits of E-commerce?
- 21. Define world wide web?
- 22. Point out some uses of PowerPoint.
- 23. How data filtering option in excel is useful?
- 24. What is meant by a theme in PowerPoint Presentation?

 $(10 \times 2 = 20 \text{ Marks})$

Part B

Very Short Answer Type Questions. Answer any 6 questions.

- 25. Explain the steps to estimate regression equation using Data Analysis Toolpak.
- 26. What are the different types of softwares? Explain.
- 27. Explain the steps to add transition effect and animation to PowerPoint Presentation?
- What you mean by function library in excel? List out 6 statistical functions and their uses?
- 29. Define Internet? Explain the uses of internet for the students of economics?
- 30. Explain 5 options to manipulate first document in word.
- 31. What is meant by memory? Distinguish between primary memory and secondary storage.
- 32. Explain meaning and main participants of electronic payment system.

 $(6 \times 5 = 30 \text{ Marks})$

Part C

Short ESSAY Type Questions. Answer any 2 questions.

- 33. Discuss the meaning and scope of E-commerce? Also explain major challenges of E-Commerce.
- 34. What you mean by word processor? Explain main features of word processor?
- 35. Explain how excel can be used for various statistical and economic analysis?
- 36. What you mean by operating system? Explain the functions of operating system?

 $(2 \times 12 = 24 \text{ Marks})$

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		OK COLLEGE (AU		
		ester BA Economics 04C04 – Mathemat		
Мах. Т	Time: 1.30 hours	(2013 Adin	ission onwards)	Max. Marks: 40
		PART		
A [M/4]	ltiple Chaige Overtin	Answer all g	uestions	
A-Mu	Itiple Choice Questio	115		
1.	Evaluate $\int_{1}^{3} X^{2} + 3X$	(X+2)dx	e i	
	a. $\frac{97}{3}$	b. 75/3	c. $\frac{25}{3}$	d. None of these
2.	If PQ = 200 elasticity	y of demand is		
	a. 1	b1	c. 0	d. 2
3.	A function is $Y = f(x)$), is said to be conve	x, if its second or	der derivative is
	a. positive	b. negative	c. zero	d. none of these
4.	Which of the follow	ing is the indefinite i	ntegral of $X^{1/2}$	
	a. $\frac{1}{2}X^4 + c$	b. $\frac{3}{2}X^{3/2} + c$	c. $\frac{1}{3}X^{3/2} + c$	d. $\frac{1}{3}X^3 + c$
5.	Income elasticity of	the function, $Q = P_1^{\circ}$	$^{\alpha}P_{2}^{\beta}M^{\gamma}$ is	
,	a. α	b. β	c. γ	d. None of these
6.	Cross elasticity of co	omplimentary goods	must be	
	a. positive	b. negative	c. zero	d. none of these
				$(6 \times \frac{1}{2} = 3 \text{ Marks})$
	Par	t B (Very Short Ans Answer any 6	* *	ions)
7.	Distinguish between	implicit and explicit	-	
8.	Explain the relation:	ship between returns	to scale and degr	ee of homogeneity.
9.	Find the second ord	er cross partial deriva	ative of the functi	on $Z = X^8 + Y^8$
10.	Find $\frac{dy}{dx}$, if $F(x, y) =$	$x^2 + 2xy^2 + 9y^4$	= 0	
11.	Differentiate $Y = 5$	$(2x+10)^2$		
12.		n integration by parts	and integration b	y substitution
13.	Find $\frac{dy}{dx}$ of $Y = \frac{x^2}{x^2}$	+ <u>2</u> - 64		

State the conditions of maxima and minima of functions with one independent variable

14.

Part C (Short Essay)

Answer any three questions

- 15. For the Cobb- Douglas production function, $Q = AL^{\alpha}K^{\beta}$, prove that both MP_L and MP_K are downward sloping.
- 16. Find the total differential of a) $Z = 2x_1 + 6x_1x_2 + x_2^2$ b) $Z = (5x_1^2 + 7x_2)(2x_1 - 4x_2^2)$
- 17. Distinguish between consumer's surplus and producer's surplus with the help of Integration
- Demand function of two related commodities are $Q_1 = 400 3p_1 2p_2$ and $Q_2 = 600 2p_1 5p_2$. Find own price and cross price elasticity of demand. Also prove that the commodities are complimentary goods.

 $(3 \times 5=15 \text{ Marks})$

Part D (Essay Questions)

Answer any one of the following questions

- 19. Briefly discuss the role of Differential and Integral calculus in Economics.
- 20. A firm has the following production and cost function, $Q = K^{1/2} L^{1/2}$

TC = 100 = 2K + 5L , Find the maximising output and critical values for K and L

(1×10=10 Marks)

	(Pages: 3)	Reg. No:	•••••

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ECO4B05 – Qua			S — II
iours	(2013 Haimission o		Max. Marks: 80
[Answer all On		on carries 1 marksl	
	estions. Lach questi	on carries I marks	
$\frac{1}{x-2}$ is			
	(b) ∞	(c) 4	(d) 8
eyer's index number	possess		
ownward bias	(b) No bias	(c) upward bias	(d) None of the above
component of time so	eries attached to long	-term variations is terr	med as
yclic variation (b) se	cular trend (c) i	rregular variation (d) a	all the above
$(A) = 0.40, \ P(B) = 0$.30, $P(A \cup B) = 0.6 \text{t}$	hen $P(A \cap B)$ is	
.2	(b) 0.1	(c) 0.3	(d) None of the above
ing average method	of fitting trend in a ti	me series data remove	s the effect of
ong-term movements	s (b) short-term move	ments (c) cyclic varia	tion (d none of these
ch of the following is	s regarded as a good i	ndex number of popul	lation growth
RR	(b) NRR	(c) TFR	(d) CBR
derivative of $\log x$ v	with respect to x is		
1	(b) -1	(2)	
\overline{x}	$(0) \frac{1}{x^2}$	$\frac{(c)}{x}$	(d) x
de birth rate mainly d	epends on		
lale population (b) N	umber of children (c)	Female population (d	l) None of these
blanks			
and B are two mutu	ally exclusive events	then $P(A \cap B) =$	
ssing a die, the prob	pability of getting an	odd number is	
the cost function $c(x)$	$(x) = 1 + 5x + 3x^2$, the r	narginal cost of produ	ction 10 unit is
		1 1.38	GIRA
f(x) is maxim	num when		
	Fourth Semester B ECO4B05 – Quantion is a ECO4B05 – Quantion (See ECO4B05 – Q	FAROOK COLLEGE (AUTONO). Fourth Semester BA Economics Degree ECO4B05 – Quantitative methods for (2015 Admission of nours Section-A [Answer all Questions. Each question of property is index number possess for the property is index number p	FAROOK COLLEGE (AUTONOMOUS), KOZHIKOD Fourth Semester BA Economics Degree Examination, Mar ECO4B05 – Quantitative methods for Economic Analysis (2015 Admission onwards) hours Section-A [Answer all Questions. Each question carries 1 marks] $\frac{x^2-4}{x-2}$ is (b) ∞ (c) 4 Dever's index number possess downward bias (b) No bias (c) upward bias component of time series attached to long-term variations is tended by the experiment of the series attached to long-term variation (d) and $P(A) = 0.40$, $P(B) = 0.30$, $P(A \cup B) = 0.6$ then $P(A \cap B)$ is $P(A) = 0.40$, $P(B) = 0.30$, $P(A \cup B) = 0.6$ then $P(A \cap B)$ is $P(A) = 0.40$, $P(B) = 0.40$,

Section-B

[Answer any 10 Questions. Each question carries 2 marks]

- 13. When a function is said to be discontinuous?
- . 14. Define elasticity
 - 15. Find $\lim_{x \to 1} \frac{4x^4 + 3x^3 1}{x^2 + 7}$
- 16. Define sex ratio
- 17. Define general fertility rate
- 18. What is price relatives
- 19. Define random experiment
- 20. State addition theorem
- 21. Distinguish between mutually exclusive and mutually exhaustive events
- 22. What is the principle of least squares
- 23. Define marginal function
- 24. What is meant by time series analysis

 $(10 \times 2 = 20 \text{Marks})$

Section-C

[Answer any six Questions. Each question carries 5 marks]

- 25. Briefly explain the different components of time series
- 26. Determine the maxima and minima values (if any) of $f(x) = x^3 6x^2 + 9x 5$
- 27. Define conditional probability. If P(A) = 1/3, P(B) = 3/4, $P(A \cup B) = 11/12$. Find P(A/B)
- 28. Briefly explain Bayes theorem
- 29. The cost function for the production of x units of an items is given by $10 4x^2 + 3x^3$.

 Find (i) average cost (ii) marginal cost
- 30. What are index numbers. How do you construct consumer price index number
- 31. Differentiate the following function

(a)
$$y = x^2(1+x^3)$$
 (b) $y = \frac{(5x-2)^2}{x-3}$

32. Two unbiased dice are thrown. Find the probability of getting the sum of two numbers is 8.

Section-D

[Answer any two Questions. Each question carries 12 marks]

33. Construct Fisher's ideal index number for the following data and show how it satisfy time reversal test

Commodities	200)2	2003				
	Quantity	Price	Quantity	Price			
A	20	12	30	14/99			
В	13	14	15	20			
C	12	10	20	15			
D	8	6	10	4			
Е	5	8	5	6			

- 34. What do you understand by the term vital statistics? Explain its various uses
- 35. (a) Explain the following
 - (i)Independent events
 - (ii)Multiplication theorem
- 36. A bag contains 7 white and 9 black balls. Three balls are drawn at random. Find the probability that balls drawn are (i) 1 white and 2 black (ii) 2 white and 1 black
- 37. (i) What do you mean by left hand continuous and right hand continuous
 - (ii) Show that $f(x) = x^2 + 4x 2$ is continuous for x = 1.

 $(2 \times 12 = 24 \text{ marks})$