1B3N18163	(Pages: 3)	Reg. No:
		Name:
FAROOK	COLLEGE (AUTONOMOUS	S), KOZHIKODE
	ester BA Degree Examination	
BECO3B03 -	Quantitative Methods for E	
Max. Time: 3 hours	(2015 Admission onward	Max. Marks: 80
	PART A	
	Answer All Questions	
Multiple Chaires	Each question carries ½ marks	
Multiple Choices:	at agains most fraguently in a	sat of data
	at occurs most frequently in a	
(a) Mean (c) Median	(b) Rar (d) Mo	
		del
	ne data into 10 equal regions.	oilee
(a) Percentiles	(b) Dec	
(c) Quartiles	(d) Me	culan
3. Weather or climate chang		
(a) Secular Trend		clical variation
(c) Irregular Variation		asonal Variation
4. The square root of Standar		
(a) Variance	. (b) Ku	
(c) Correlation		spersion
5. What is the Median of 1,3		
(a) 2	(b) 5	
(c) 6	(d) 4	
6. The best average to analyz		
(a) Harmonic Mean		ometric Mean
(c) Mean	(d) Me	edian
7. Kurtosis means		
(a) Lack of symmetr	y (b) Bu	lginess

(d Skewness

(b) 35

(d) 20

8. What is the Range of 20, 35,25,30,15?

(c) Normal curve

(a) 15

(c) 25

	Answer any 10	0 Ouestions
	PART	ГВ
		$12 \times 1/2 = 6 \text{ Marks}$
(c)	Time series analysis	(d) None of the above
(a)	Regression analysis	(b) Correlation analysis
Variabl	e is called	A Section 2 right
12. The est	imation of the unknown value of one	variable from the known value of the other
(c)	-1	(d) 2
(a)	1	(b) 0
11. The va	lue of perfect correlation is	115
(c)	Mean Deviation	(d) Quartile Deviation
(a)	Variance	(b) Standard Deviation
10. Root N	Mean Square Deviation is also known	as
(c)	1.6	(d) 0.64
(a)	0.36	(b) 0.12
9. When r	= 0.6 the co-efficient of determinatio	n =

Each question carries 2 marks

- 13. Define statistics.
- 14 .What is the equilibrium price and quantity given by Q_d = 2 0.2 p and Q_s = 0.2 + 0.7p?
- 15. In a moderately asymmetrical distribution mean is 24.6 and median is 25.1 .Find the Value of Mode.
- 16. What are the merits and demerits of Standard Deviation?
- 17. What are the properties of regression lines?
- 18. What is Gini Coefficient?
- 19. Distinction between correlation and regression.
- 20. If r = 0.8 and N = 81 find out the probable error of the coefficient of correlation.
- 21. Calculate SD and CV of the numbers 1 to 10.
- 22. What are the properties of Correlation Coefficient?
- 23. Examine the use of statistics in economics.
- 24. Find the slope of the line joining points (2, 3) and (4, 9)

10 x 2= 20 Marks

Answer any 6 Questions each question carries 5 marks

25. Calculate Mean, Median and Mode for the following data.

Classes	4-8	8-12	12-16	16-20	20-24
Frequency	3	7	16	8	2

- 26. Write notes on Lorenz curve.
- 27. Distinguish between Skewness and Kurtosis.
- 28. What are the problems in the construction of index numbers?
- 29. What are the different types of correlation?
- 30. If $\sum p_0 q_0 = 700$, $\sum p_0 q_1 = 532$, $\sum p_1 q_0 = 875$, $\sum p_1 q_1 = 658$. Find Laspeyer's Index Number and Fisher's Index Number. Also show that latter one satisfies Time reversal and Factor reversal tests.
- 31. Find Harmonic Mean from the following data

Size	0-10	10-20	20-30	30-40	40-50
Frequency	24	25	29	32	35

32. Distinguish between Questionnaire and Interview schedule.

6 x 5= 30 Marks

PART D

Answer any 2 Questions each question carries 12 marks

33. Find the rank correlation coefficient from the following data.

X	44	42	40	52	39	32	24	46	41	50
Y	24	25	29	32	35	36	41	45	48	52

- 34. Define Positional averages and state their merits and demerits.
- 35. What is a measure of Dispersion? Briefly explain different measures of dispersion.
- 36. Calculate Mean, Median and Mode for the following data.

Classes	4-8	8-12	12-16	16-20	20-24
Frequency	3	7	16	8	2

2 x 12= 24 Marks

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	ster BA Degree Examinat	않는 살이 없는 살이 살아보는 것이 보다면 되었다면서 살아보다.
Till d Sellie	BECO3B04 - Macro	
M T' 21	(2015 Admission onwa	
Max. Time: 3 hours		Max. Marks: 8
Part A. Ob	jective type questions An	nswer all questions
1was chairman of '	"National Income Committ	ee" set up in 1949.
a) Amartya Sen	b) P.	C Mahalanobis
c) V.K.R.V. Rao.		of. D.R Gadgil
2. Who among the following t		
a) Milton Friedman		obert Lucas
c) Anna Schwarts		oth a&c
3. Which among the followin		
a) Inflation		conomic growth
c) Rural Development		iscal deficit
	e estimation of aggregate o	
a) Production for own		oods sold in market
c) Input kept as invent		utput kept as inventory
5. Which of the following is		
a) Full employment		erfect completion in labour market
c) Money has speculat		Vages and prices are flexible.
6. The failure of labourers to a known as	understand the impact of ris	sing inflation on real income is
a) Classical dichotom	y b) M	Money illusion
c) Neutrality of money	y d) V	elocity of money.
7. In classical theory supply c	urve of capital is	
a) Upward sloping	b) D	Downward sloping
a) Horizontal	b) V	'ertical
8. According to Keynes increa	ase in consumption in response	onse to increase in income is
a) Less than propionat	te b) N	Nore than proportionate
c) Equally proportions		Ione of the above.
9. Marginal Efficiency of Car		
a) Low consumption		ow saving
c) Law of diminishing		igher inflation
		estment depends on the value of
a) MPC	b) A	
c) Interest rate		/IEC
11. Relative income hypothes		
	A CONTRACTOR AND A CONTRACTOR OF THE CONTRACTOR	

b) Duesenberry

d) Friedman

a) Keynes

c) Modigliani

12. Friedman assumed that MPC from transitory income is ____

a) 1

b) less than 1

c) 0

c) between 0 and 1.

 $(12 \times 1/2 = 6 \text{ Marks})$

Part B Very Short Answer Type Questions. Answer any 10 questions.

- 13. Define macroeconomics?
- 14. What you mean by net factor income from abroad?
- 15. What is meant by fallacy of composition?
- 16. Define GDP deflator.
- 17. What is meant by classical dichotomy?
- 18. What is production function under classical model.
- 19. What you mean by Pigou's wage cut theory.
- 20. What are the components of aggregate demand?
- 21. Define Marginal efficiency of capital?
- 22. State Keynesian Psychological law of consumption.
- 23. Define demonstration effect?
- 24. What is meant by consumption puzzle of Kuznet?

(10X 2 = 20 Marks)

Part C Short Essay Type Questions. Answer any 6 questions.

- 25. Discuss the difficulties in national income estimation in India.
- 26. How do you connect output with income? Explain.
- 27. Explain the limitations of macroeconomics?
- 28. Explain the case of underemployment equilibrium in Keynesian theory.
- 29. Elaborate Say's law of market and its implications.
- 30. Compare the Keynesian and Classical Systems.
- 31. Explain classical theory of money.
- 32. Briefly discuss various components of aggregate expenditure.

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

Part D ESSAY Type Questions. Answer any 2 questions.

- 33. Explain classical theory of employment and output determination.
- 34. Discuss the life cycle hypothesis of consumption.
- 35. Discuss the Keynesian cross analysis of three sector model.
- 36. Explain in detail how output is measured in India's National account statistics.

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

1B31	BN18165	(Pages: 2)	Reg. No:
			Name:
	FAROOK COLLEGE	E (AUTONON	MOUS), KOZHIKODE
	Third Semester BA D	egree Exami	nation, November 2018
	BECO3C04 - Ma	thematical N	Methods for Economics III
	(2015	Admission or	nwards)
Max	x. Time: 1.5 hours		Max. Marks: 40
	Uye kinishla estapla.	PART A	pilastrass lo terusco aci ciatigas gliastiture
-Obj	jective Type Questions	wer <i>all</i> questi	ions
	The condition for the convexity is	equal to the su	ufficient condition of
	a) Maxima b) minima c) inflect	ional d) both a	a and b
2.	Suppose the price of a product inc	creases from P	Rs12 to Rs 20 and the quantity demanded
	falls from 55 a week to 45. What is	s the Price Ela	asticity of Demand?
	a) 0.4 b) -0.4 c) 2.	5 d) -	2.5
3.	A demand function is given by: Q	$i = 52 - P^2 At t$	he point $(P, Q) = (2,48)$ the price
	elasticity of demand		the bound only on a 100 drawnd and
	$PED = \underline{P} \cdot \underline{dQ}$		ie jas of East per unit will entre a decline in
	Q dP		
	is equal to:		
	a) 2 - 104/Q b)-1/6	c)-1/8	d)-4
4.	For the demand and supply function	ons, $Q_d = 10 - 10$	P, $\dot{Q}_S = 3P$ -2, the equilibrium (P_0, Q_0) is:
	a) (6,4) b)(5,5)	c)(7,3)	d)(3,7)
5.	y = 100/x + 4x has		
	a. a maximum point where x	= 5	
	b. a minimum point where x =	= 5	2-60-,050°, Celephor the medibology pice
	c. a maximum point where x	= -5	sainte on extreme value. Flad the exercise
	d. a minimum point where x =	= -5	001 x vec met - Yull and
6.	$f(x) = 3x^3 - 4x^2 + 10$ implies		
	a. $f(1) = 10$		
	b. $f'(x) = 9x^2 - 8x + 10$		
	c. $f''(x) = 18x - 8$		

d. f'(2) = 20

Part B (Very Short Answer Type Questions) Answer any 6 questions

- 7. Find the relative extreme value of the function $y = 2x^2 16x + 50$
- 8. The consumption function for an economy is given by c = 50 + .4 y. find MPC and MPS
- 9. For a firm, given that c = 100 + 15x and p = 3 .find profit function.
- 10. Explain the relationship between MC and AC
- 11 Define market demand function.
- 12. Mathematically explain the concept of convexity and concavity. Give suitable example.
- 13. The demand function p = 50 3x. Find MR
- 14. The total cost function is $TC = 60 12x + 2x^2$. Find the MC

(6×2=12 Marks)

Part C (Short Essay) Answer any three questions

- 15. Explain the importance of mathematical economics.
- 16. If D=40 5p and S=30 p are the demand and supply functions in a market show that a specific tax of Rs 1 per unit will cause a decline in the market price.
- 17. Distinguish between total differential and total derivative
- 18. If AR=6, MR=4 find price elasticity of demand.

(3×5=15 Marks)

Part D (Essay Questions) Answer any one of the following questions

- 19. a) A monopolist is facing a linear demand, Q=360-20P. His linear cost function is given by TC=6Q+.05Q². Calculate the equilibrium price, quantity and the maximum profit.
- 20. Write a note on extreme value. Find the extreme value of the function

$$f(x,y)=3x^3-y^3-15x+35y+100$$

(1×10=10 Marks)