Seat No.:

## **MN-113**

March-2019

B.Com., Sem.-IV

## 210 : Fundamental Statistics

(New)



Time: 2:30 Hours]

[Max. Marks: 70

7

Instructions: (1) Figures to the right indicate the full marks of the questions.

- (2) Use of simple calculator is allowed.
- 1. (A) (i) Give definition of differentiation and use it to obtain derivative of  $f(x) = 3x^2 + 5$ .
  - (ii) Find derivative of the following:
    - (a)  $y = \frac{3x^2 + 4x + 5}{2x^2 3}$
    - (b)  $y = x^{10} \cdot \log x + 15$
    - (c)  $y = e^{3x^2 4x + 5}$



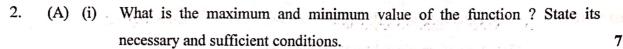
OR

- (i) State the rules of differentiation and find  $\frac{dy}{dx}$  from (x + 3) (y + 2) = 10.
- (ii) Prove the following results:
  - (a) If  $y = 5 e^{4x} + 3$ .  $e^{-4x}$ , then prove that,  $\frac{dy}{dx} + 12$ .  $e^{-4x} = 20$ .  $e^{4x}$ .
  - (b) If  $y = \frac{1+x}{1-x}$ , then prove that,  $(1-x^2)\frac{dy}{dx} = 2y$ .

MN-113



- (i) What is the derivation of constant term?
- (ii) If  $f(x) = \log(x + 1)$ , find f'(1).
- (iii) If  $f(x) = 3x^2 + 12x$ , and f'(x) = 24, find x.
- (iv) If  $f(x) = \frac{1}{x^2}$ , find  $f'(-\frac{1}{2})$ .
- (v) State the chain rule of differentiations.
- (vi) Write the differentiation of multiplication rule of three functions.



(ii) The followings are demand and cost function of a commodity for a monopolist.

$$x = \frac{100 - p}{3}$$
, [demand function]

$$C = 5x^2 + 4x$$
, [cost function]

Find the production for maximum profit. Also obtain the price corresponding to it and maximum profit.

OR

(i) Explain the meaning of elasticity of demand and find elasticity of the demand, demand function  $P = 60 - \sqrt{x}$  at x = 36 and hence interpret it.

(ii) If 
$$y = x^2 \cdot \log\left(\frac{1}{x}\right)$$
, then prove that,  $x^2 \cdot \frac{d^2y}{dx^2} - x \cdot \frac{dy}{dx} + 2x^2 = 0$ .



- (B) Answer the following (any four):
  - (i) Define elasticity of supply.
  - (ii) State the necessary and sufficient conditions for minimizing cost function.
  - (iii) If  $y = \frac{1}{x}$ , then find  $\frac{d^2y}{dx^2}$
  - (iv) If  $f(x) = 6x^4$ , then find f'' (2).
  - (v) If AR = 10, MR = 5, find elasticity of demand.
  - (vi) If demand function x = 20 P, find total revenue when x = 10 items.

3. (A) (i) What is an index number? State its uses.

AARS

(ii) From the following data, find Fishers and Marshall's index numbers.

	20	010	20	)18
Items	Expense	Quantity	Expense	Quantity
A	78	26	120	30
В	120	15	200	20
C	72	12	135	15
D	50	5	120	10
/ E	28	7	45	9 10

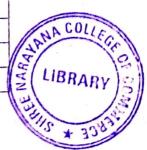


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OR

- (i) What is time reversal test and factor reversal test? Also, show Fisher's index number is an ideal index number.
- (ii) From the following data, find the index numbers by using family budget method and total expenditure method.

_	0 "	Pr	ice
Items	Quantity 2010		2018
Α	100	8.00	12.00
В	25	6.00	7.50
С	10	5.00	5.25
D	20	48.00	52.00
E	75	15.00	16.50
-# <b>F</b>	30	9.00	27.00



- (B) Answer the following (any three):
  - (i) What an index number of the base year?
  - (ii) If  $\Sigma P_0 Q_1 : \Sigma P_1 Q_1 = 2 : 3$ , find  $I_p$ .
  - (iii) Which index numbers will satisfies the time reversal test?
  - (iv) Give the formula of converting chain base index numbers into fixed base index numbers.
  - If Dorbish Bowley's and Laspeyre's index number is 137.5 and 142, find Paasche's index number.
  - (vi) Give the methods of calculating cost of living index numbers.

- 4. (A) (i) Explain analysis of time series. Discuss the various components of time series.
  - (ii) Find seasonal variations by moving average method for following data:

Year		Season				
	Winter	Summer	Monsoon			
2015	55	65	45			
2016	52	70	50			
2017	70	80	55			
2018	82	86	80			



OR

- (i) Explain the following terms with respect to time series:
  - (a) Trend
  - (b) Seasonal variations
  - (c) Irregular variations

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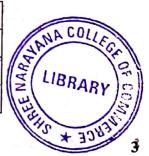
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(ii) Find trend by taking four yearly moving averages for the following time series. Also obtain short term fluctuations.

Year	2006	2007	2008	2009	2010	2011
Sale	196	199	200	198	206	210
Year	2012	2013	2014	2015	2016	2017
Sale	200	212	220	210	222	230



- (B) Answer the following (any three):
  - (i) Give the formula to calculate irregular variation in time series data.
  - (ii) The seasonal indices for four quarters are 111.5, 95.7, x, 91.7. Find approximate value of x.
  - (iii) Give the formula to calculate seasonal variation in time series data.
  - (iv) The averages of each quarter of the data is 57, 68.5, 59.2, 72.3. Obtain seasonal indices for second quarter.
  - (v) What is time series?

Seat	No.	
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## ML-127

March-2019

B.Com, Sem.-IV

## Economics (International Eco. and Public Finance-(02)) (New Course)



Time: 2:30 Hours] [Max. Marks: 70

Instructions: (1) Answer the following questions.

(2) Question wise marks indicated at the right end.

1. (A) Define Public Finance and discuss its scope.

OR

Discuss the role of the govt. in the context of the failure of Price mechanism.

- (B) State whether following statements are true or false:
  - (1) Defence is a part of public Good.
  - Private Finance relates to income and expenditure of an Individual.
  - (3) Fiscal operations are executed mainly through public expenditure.
  - (4) Public finance relates to income and expenditure of a community.
- 2. (A) What does public expenditure mean? Discuss the reasons for the growth of public expenditure in India.

OR

Examine the effects of public expenditure on production, employment and distribution of Income.

- (B) State whether following statements are true or false:
  - (1) Public expenditure on health and education is productive expenditure.
  - (2) Productive expenditure creates Assets.
  - (3) Public expenditure refers to only central govt. expenditure.
  - (4) Revenue and fiscal deficit refer the same.

ML-127



14

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14

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3. (A) Discuss critically role of taxation in economic development.

#### OR

Explain the meaning of deficit financing. Examine its adverse effects on Economy.

- (B) State whether following statements are true or false:
  - (1) Tax avoidance is legal.
  - (2) Tax is the best source of Revenue for the govt.
  - (3) Marshall advocated the cannon of economy in taxation.
- 4. (A) Define Direct Tax. Examine the merits and demerits of direct taxes.

#### OR

Examine the effects of Taxation on income distribution and employment.

- (B) State whether following statements are true or false:
  - (1) Tax is a compulsory payment.
  - (2) Progressive taxes help in reducing income inequality.
  - (3) Taxes cannot be avoided legally.



ML-127



Seat No.:

## **MM-118**

March-2019

B.Com., Sem.-IV

208: Taxation - II

Time: 2:30 Hours]

[Max. Marks: 70

(A) Following is the information related to receipt and payments of Dr. Hathi for the year ended on 31<sup>st</sup> March 2018.

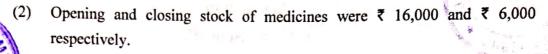
Receipts	. ₹	Payments Payments	To Tiesel
Visit fees	2,40,000	Rent & Dispensary	1,08,000
Consultation fee	2,25,000	Staff salary	1,35,000
Sale of medicines	30,000	Rent of consulting room	36,000
Rent income of operation theatre	1,20,000	Electricity	22,500
Dividend	21,000	Medical journal	7,500
Interest on NSC	7,500	Purchase of surgical instruments	30,000
Gift from patients	50,000	Diwali exp.	15,000
Sale of surgical instruments	14,000	Purchase of medicines	30,000
	Roges	Motor car exp.	54,000
Burn		Audit fee	3,000
		Association fees	900

**MM-118** 

P.T.O.

#### Additional Informations:

(1) Half of the use of motor car is for personal use.



Depreciation on surgical instrument is @ 20%. Opening balance (W.D.V.) of surgical instrument was ₹ 24,000.

(4) Admissible depreciation on car is ₹ 12,000.

(5) ₹ 10,000 of gift received from patients has not been recorded in the books.

From the above information, prepare statement showing taxable income from profession of Dr. Hathi for the A.Y. 2018-19.

OR

(I) Write short notes: (any one)

-

- (1) List of inadmissible expenses.
- (2) Block of Assets

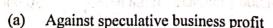
(II) Write short notes: (any one)

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- (1) Expenditure on scientific research.
- (2) Treatment of bad debt and bad debt recovered.

#### (B) Choose the correct option: (any four)

(1) The loss on speculative business is set off



- (b) Against non-speculative business profit
- (c) Against (a) and (b)
- (d) None of these



(2)	Donation to National Laboratory or University or I.T.I. shall be allowed as deduction against business income to the extent of:
Application of the second	(a) 100% of such donation given
Q14. 1.	(b) 125% of such donation given
1000 1	(c) 150% of such donation given
	(d) None
(3)	Which of the following expenses are inadmissible in context to income from business?
	(a) GST (b) Income Tax
	(c) Municipal Tax (d) None of above
(4)	Loss occurred due to theft in business is expenses.
Such a	(a) admissible (b) inadmissible
	(c) depend on circumstances (d) None of above
(5)	Unabsorbed depreciation can be set off against the income of
	(a) the same business (b) any business income
C50,01	(c) any head of income (d) None
0.05(6)	Non speculative business loss can be carry forward for years.
	(a) 8 (b) 10
Was to	(c) 4 (d) None
MM-118	11

(A) Shri. Tarak Mehta has provided the following details for p.y. 2017-18. Compute taxable capital gain for the A.Y. 2018-19.

Sr. No.	Assets	Date of Sale	Selling Price	Date of Purchase	Purchase Price	Transfer Expenses.
1.	Residential House	31/10/17	90,00,000	1/10/95	3,00,000	25,000
2.	RIL Equity Shares	1/2/18	10,00,000	1/9/2005	2,40,000	1,000
3.	Personal Motor Car	1/3/18	4,50,000	1/2/14	4,00,000	5,000
4.	Jewellery	28/2/18	99,00,000	1/11/15	31,00,000	30,000
5.	Residential House	<u>-</u>	<u> </u>	1/2/18	9,00,000	-

The fair market value of the self residential house was ₹ 35,00,000 as on 1/4/2001.

The shares of the company was subject to S.T.T.

F.Y.	2001-02	2005-06	2013-14	2015-16	2017-18
Index	100	117	220	254	272

OR

Attempt any one:

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(i) Calculate taxable income under the head "Income from other sources" of Mr. Sodhi.

(₹)

(a) Dividend received on equity shares of Goli Ltd. 20,000

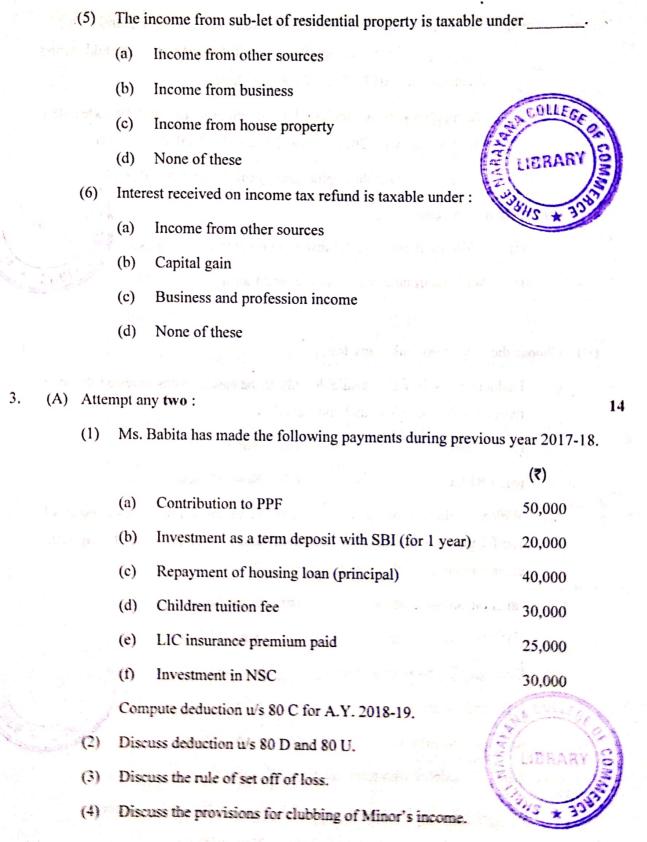
(b) Interest received on ₹ 4,00,000 @ 8% tax free bond of Gokul Dham Society 32,000

(c) Interest received on listed debentures of Gada Electronics (TDS 10%) 1,44,000

(d) He has paid as interest on loan taken for making investment in Gada Electronics. 7,600

MM-118

	(ii)	Shri Popatlal has purchased 500 shares (unlisted) of patrakar ltd. at	
	140	₹ 1,000 per shares during 2000-01. All these shares were sold during	
		inflation index for 2017-18 was 272 and for 2001-02 was 100.	
	ng a		
(2)	Δtte	The control of all historized range (if the control of the control	
(2)		we to the arms of the relation to capital asset.	3
	(1)	Wille short notes on Transfer in Telephone	-
	(ii)	Write short notes on Bond washing transactions.	
Cho	ose th	e correct options : (any four)	
(1)	Ded	uction u/s 54 EC is available only if the assessee has invested the long	
	term	capital gain in 3 years bond issued by.	
	(a)	CDSL (b) NSDL	
	(c)	RECL (d) None of these	
(2)	Whi	ch of the following amount is to be invested for the exemption of	
	capi	tal gain for purchase of residential assets from the sale of long term	
	capi	tal assets other than residential house?	
	(a)	Net consideration (b) Capital gain	
	(c)	(a) and (b) both (d) None of these	
(3)	Ded	uction u/s 54 is available to assessee.	
	(a)	Individual (b) HUF	
	(c)	(a) and (b) both (d) None of these	,
(4)	Rent	of multiplex with furniture is taxable under	
4	(a)	Income from business (b) Income from other sources	
manager and the second			
	(1) (2) (3)	(2) Atte (i) (ii)  Choose the (1) Ded term (a) (c) (2) Whi capi capi (a) (c) (3) Ded (a) (c) (4) Rent	(i) Write short notes on "Transfer" in relation to capital asset.  (ii) Write short notes on Bond washing transactions.  Choose the correct options: (any four)  (1) Deduction u/s 54 EC is available only if the assessee has invested the long term capital gain in 3 years bond issued by.  (a) CDSL (b) NSDL  (c) RECL (d) None of these  (2) Which of the following amount is to be invested for the exemption of capital gain for purchase of residential assets from the sale of long term capital assets other than residential house?  (a) Net consideration (b) Capital gain  (c) (a) and (b) both (d) None of these  (3) Deduction u/s 54 is available to assessee.  (a) Individual (b) HUF  (b) HUF  (c) (a) and (b) both (d) None of these  (4) Rent of multiplex with furniture is taxable under



OR

- (I) Do as directed (any one):
  - Write short note on deduction under 80 E. (1)
  - carry forward of losses. (2)
- (II)Do as directed (any one):
  - Unexplained investment (1)
  - Write short note on deduction under 80 G. (2)



3

- Choose the correct option: (any three)
  - Mr. Iyer has paid ₹ 22,000 premium on personal LIC. The policy amount (1) was ₹ 2,00,000. Amount available as deduction u/s 80 C is ₹ \_
    - 22,000 (a)

20,000 (b)

10,000 (c)

- None of these (d)
- Interest income on saving bank account allowed u/s 80 TTA is (2)
  - ₹ 10,000 (a)

₹ 20,000 (b)

(c) · ₹ 40,000

- None of these (d)
- is allowable as mediclaim premium u/s 80 D for Deduction upto ₹ (3) normal citizen.
  - ₹ 25,000 (a)

₹ 30,000 (b)

₹ 35,000 (c)

- None of these (d)
- Deduction allowed in respect of royalty by an author of book on art or science is
  - 100% income or ₹ 3 lakhs whichever is less. (a)
  - 100% income or ₹ 5 lakhs whichever is less. (b)
  - 50% income or ₹ 3 lakhs whichever is less. (c)
  - None of these (d)
- The business loss of a discontinued business is (5)
  - allowed (a)

- disallowed (b)
- partly allowed (c)
- None of these (d)



. 1	(A)	Write	e short notes on : (any two)	arte and perceptions of (3) 14
		(1)	GST Council	er in reducible it.
		(2)	Input tax credit	the Same of the Control of the
		(3)	IGST	E (LIBRARY)
	A com	(4)	Supply	LIBRARY
3	4	and the	OR Store and the store of the s	Whs # 30
	,	(i)	Describe the types of GST.	7
		(ii)	Write short notes on composite supply.	to) testino tato milio 1982 (fit 7
		PH Y		of C. Dieng you now hit (i)
	(B)	Choo	ose the correct option: (any three)	3 - Annual - 30 (W.S. **)
		(1)	The maximum rate of GST in India is	900,00, (n)
			(a) 28% (b)	18%
			(c) 12% (d)	None of these
		(2)	The term "Goods" does not include	
			(a) Movable property (b)	Immovable property
	10, 1		(c) Money (d)	None of these
		(3)	Which of the following tax applicable v	when supply of goods from Gujarat
			to Madhya Pradesh?	- Osto 2 % red
	36. 28		(a) IGST (b)	SGST
			(c) UTGST (d)	None of these
		(4)	The registration under GST is compulsor	y whose turnover is
			(a) ₹ 20 lakhs or more , (b)	₹ 15 lakhs or more
			(c) ₹ 50 lakh or more (d)	None of these
		(5)	GST is payable based on	
	W		(a) supply (b)	cash collected
			(c) (a) and (b) both (d)	None of these

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# MQ-108 March-2019

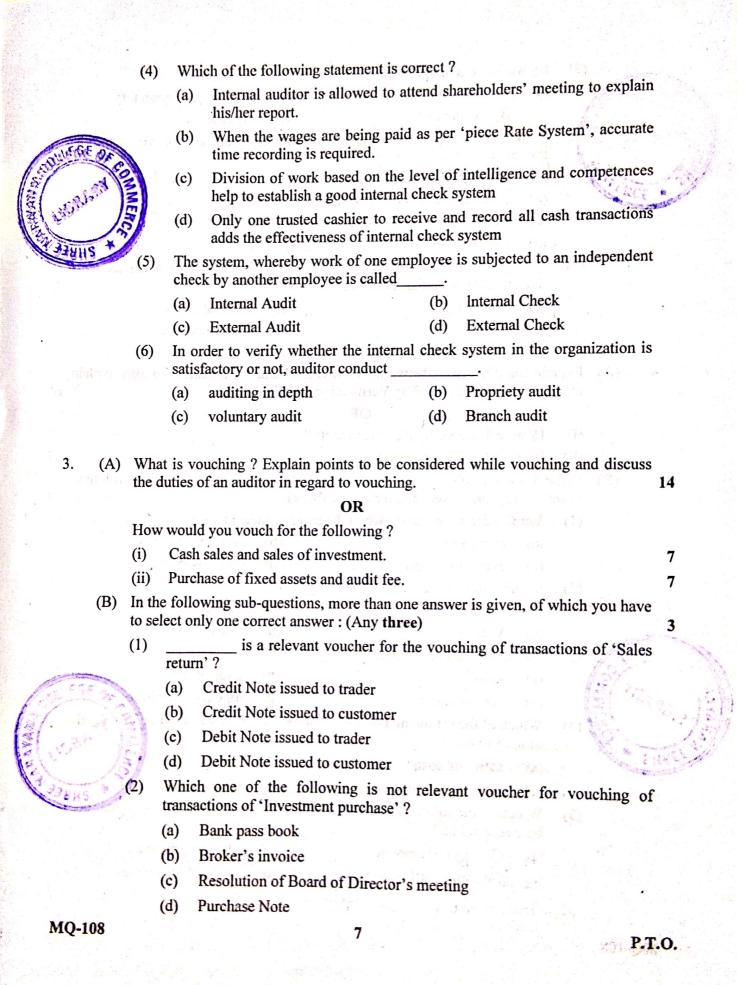
B.Com., Sem.-IV

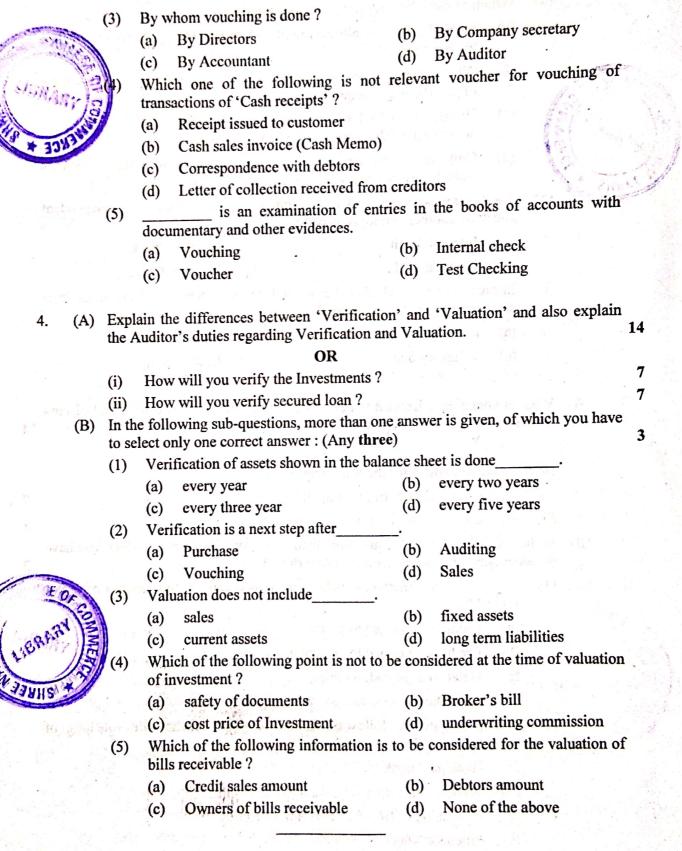
CE-204 (A): Accountancy (Adv. A/c & Auditing – I)

Time: 2	2:30 Ho	ours]	व्याप्तिकारीय समुद्राध्यक्तिका । विवादीय स्थापनीय स्थापनीय क्षेत्रका ।	[Max. Marks: 70
1. (A	) Wha	at is Auditing? Explain advanta	ges and disadvantages o litor as per Companies Ac	f Auditing and also et 2013.
		OR	and the second of the second of the Western	Sheet of the second
	(i)	Explain different types of audi and Annual Audit.	t and distinguish between	n Continuous Audit 7
	(ii)	Explain the qualifications and Act 2013.	disqualifications of an Au	aditor as Companies
(B		ne following sub-questions, more elect only one correct answer: (A		, of which you have
	(1)	Which of the following objects	is one of the 'Principal o	bject' of Auditing?
		(a) To verify the correctness	of accounts of business.	s and the second
		(b) to comply with provision	s of the Companies Act	
		(c) To detect errors and fraud	ls de la	
		(d) To have control on emplo	oyees	n decity, 19
	(2)	audit is carried of business unit.	on by the salaried staff	appointed by the
		(a) External	(b) Auditing	in Depth
		(c) Internal	(d) Statutory	AV ( ( )
(A)	(3)	When the Auditor checking of as	only few selected transa	actions, it is known
His rate	ME.	(a) Surprise checking	(b) Test chec	king
		(c) Depth checking	(d) Routine	hecking
SHRE	(4)	The first auditor of the comparishment withinmonths after its in		Board of Directors
		(a) one	(b) two	
		(c) three	(d) five	
	70 L			

MQ-108

(5) To whom, internal auditor has to submit his report? Shareholders Management (c) Company Registrar (d) Government Which one of the following statement is not correct in regard to the "Right (6)of an Auditor? Right to receive remuneration (a) (b) Right to be indemnified (c) Right to get expert advice Right to attend the Shareholders' meeting (d) (A) Distinguish between Internal Audit and Internal Check and explain the points to be considered by the Auditor at the time of starting the new audit. Explain the Internal control system for cash sales. (i) (ii) Difference between Audit Programme and Audit Note Book. (B) In the following sub-questions, more than one answer is given, of which you have to select only one correct answer: (Any four) A plan prepared by the Auditor to carry out audit is called\_ (a) Audit report (b) Audit notebook Audit programme (c) **Audit Certificate** Which of the following statement is objects of Internal control? (2)Detection of errors committed by the employees and to prevent them. Improvement in quality of goods or services provided to the (b) customers. Quick information provide to Government. (c) None of the above (d) Which one of the following steps is not going to help in detecting the misappropriation of cash? Rotating cashier's work at regular interval among the employees (a) Sending statements of accounts at regular intervals to debtors and (b) creditors to obtain their consent regarding these balances. (c) Daily balancing of cash book and comparison of the balance with the actual cash on hand Preparation of Bank Reconciliation statement (d)





Seat No.:	S. Antonias at the Laboratory

## **MN-113**

March-2019

B.Com., Sem.-IV

#### 210: Fundamental Statistics

(New)



Time: 2:30 Hours]

[Max. Marks: 70

Instructions: (1) Figures to the right indicate the full marks of the questions.

(2) Use of simple calculator is allowed.

- 1. (A) (i) Give definition of differentiation and use it to obtain derivative of  $f(x) = 3x^2 + 5.$ 
  - (ii) Find derivative of the following:

(a) 
$$y = \frac{3x^2 + 4x + 5}{2x^2 - 3}$$

(b) 
$$y = x^{10} \cdot \log x + 15$$

(c) 
$$y = e^{3x^2 - 4x + 5}$$

OR



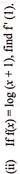
- (i) State the rules of differentiation and find  $\frac{dy}{dx}$  from (x+3)(y+2) = 10.
- (ii) Prove the following results:

(a) If 
$$y = 5e^{4x} + 3$$
.  $e^{-4x}$ , then prove that,  $\frac{dy}{dx} + 12$ .  $e^{-4x} = 20$ .  $e^{4x}$ .

(b) If 
$$y = \frac{1+x}{1-x}$$
, then prove that,  $(1-x^2)\frac{dy}{dx} = 2y$ .







(iii) If 
$$f(x) = 3x^2 + 12x$$
, and  $f'(x) = 24$ , find x.

(i) If 
$$I(x) = 5x^2 + 12x$$
, and  $I(x) = 5x^2 + 12x$ , and  $I(x) = 1$ ,  $I(x) =$ 

(iv) If 
$$f(x) = \frac{1}{x^2}$$
, find  $f'(-\frac{1}{2})$ .

(iv) If 
$$I(x) = \frac{1}{x^2}$$
, find  $I(-72)$ .  
(v) State the chain rule of differentiations.

- (vi) Write the differentiation of multiplication rule of three functions.
- (A) (i) What is the maximum and minimum value of the function? State its necessary and sufficient conditions.

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The followings are demand and cost function of a commodity for a monopolist. Ξ

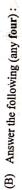
$$x = \frac{100 - p}{3}$$
, [demand function]

$$C = 5x^2 + 4x$$
, [cost function]

Find the production for maximum profit. Also obtain the price corresponding to it and maximum profit.

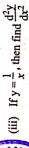


- Explain the meaning of elasticity of demand and find elasticity of the demand, demand function  $P = 60 - \sqrt{x}$  at x = 36 and hence interpret it. Θ
  - (ii) If  $y = x^2 \cdot \log\left(\frac{1}{x}\right)$ , then prove that,  $x^2 \cdot \frac{d^2y}{dx^2} x \cdot \frac{dy}{dx} + 2x^2 = 0$ .







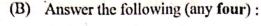


(iv) If 
$$f(x) = 6x^4$$
, then find  $f'''(2)$ .

(v) If 
$$AR = 10$$
,  $MR = 5$ , find elasticity of demand.

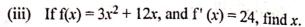
(vi) If demand function 
$$x = 20 - P$$
, find total revenue when  $x = 10$  items.

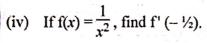
MN-113



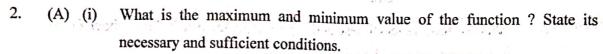


- (i) What is the derivation of constant term?
- (ii) If  $f(x) = \log (x + 1)$ , find f'(1).





- (v) State the chain rule of differentiations.
- (vi) Write the differentiation of multiplication rule of three functions.



(ii) The followings are demand and cost function of a commodity for a monopolist.

$$x = \frac{100 - p}{3}$$
, [demand function]

$$C = 5x^2 + 4x$$
, [cost function]

Find the production for maximum profit. Also obtain the price corresponding to it and maximum profit.

#### OR

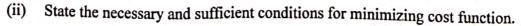
(i) Explain the meaning of elasticity of demand and find elasticity of the demand, demand function  $P = 60 - \sqrt{x}$  at x = 36 and hence interpret it.

(ii) If 
$$y = x^2 \cdot \log\left(\frac{1}{x}\right)$$
, then prove that,  $x^2 \cdot \frac{d^2y}{dx^2} - x \cdot \frac{dy}{dx} + 2x^2 = 0$ .

### (B) Answer the following (any four):



(i) Define elasticity of supply.



(iii) If 
$$y = \frac{1}{x}$$
, then find  $\frac{d^2y}{dx^2}$ 

- (iv) If  $f(x) = 6x^4$ , then find f'' (2).
- (v) If AR = 10, MR = 5, find elasticity of demand.
- (vi) If demand function x = 20 P, find total revenue when x = 10 items.



- 3. (A) (i) What is an index number? State its uses.
  - (ii) From the following data, find Fishers and Marshall's index numbers.



Items	20	)10	2018		
	Expense	Quantity	Expense	Quantity	
A	78	26	120	30	
В	120	15	200	20	
С	72	12	135	15	
D	50	5.	120	10	
E	28	7.	-45	Mar. 9 li ein.	

OR

- (i) What is time reversal test and factor reversal test? Also, show Fisher's index number is an ideal index number.
- (ii) From the following data, find the index numbers by using family budget method and total expenditure method.

Items	Quantity	Pr	ice		
71 24 7	Quantity	2010 2018			
$\mathbf{A}_{i}$ $\mathbf{A}_{i}$	100 2002131	8.00	12.00		
B	25	6.00	7.50		
C	10	5.00	5.25		
D	20	48.00	52.00		
E	75	15.00	16.50		
F	30	9.00	27.00		

- (B) Answer the following (any three):
  - (i) What an index number of the base year?
  - (ii) If  $\Sigma P_0 Q_1 : \Sigma P_1 Q_1 = 2 : 3$ , find  $I_p$ .
  - (iii) Which index numbers will satisfies the time reversal test?
  - (iv) Give the formula of converting chain base index numbers into fixed base index numbers.

If Dorbish – Bowley's and Laspeyre's index number is 137.5 and 142, find Paasche's index number.

(vi) Give the methods of calculating cost of living index numbers.

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P.T.O.

7

- 4. (A) (i) Explain analysis of time series. Discuss the various components of time series.
  - (ii) Find seasonal variations by moving average method for following data:



1/		Season	
Year	Winter	Summer	Monsoon
2015	55	65	45
2016	52	70	50
2017	70	80	55
2018	82	86	80

OR

- (i) Explain the following terms with respect to time series:
  - (a) Trend
  - (b) Seasonal variations
  - (c) Irregular variations

(ii) Find trend by taking four yearly moving averages for the following time series. Also obtain short term fluctuations.

Year	2006	2007	2008	2009	2010	2011
Sale	196	199	200	198	206	210
Year	2012	2013	2014	2015	2016	2017
Sale	200	212	220	210	222	230

- (B) Answer the following (any three):
  - (i) Give the formula to calculate irregular variation in time series data.
  - (ii) The seasonal indices for four quarters are 111.5, 95.7, x, 91.7. Find approximate value of x.
  - (iii) Give the formula to calculate seasonal variation in time series data.
  - (iv) The averages of each quarter of the data is 57, 68.5, 59.2, 72.3. Obtain seasonal indices for second quarter.
  - (v) What is time series?

MN-113

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Time: 2:30 Hours

Seat No.:

## **MO-114**

March-2019

B.Com., Sem.-IV

Commercial Communication – IV (Text: The Colors of the Life) (New)



9

[Max. Marks: 70

Instruction: Figures to the right side indicate marks.

- 1. (A) Write brief answers of any three of the following:
  - (1) Where does the king go to seek answers to his questions? Why?
  - (2) What did Laxmibai's horoscope reveal?
  - (3) What preparation does Bose talk about?
  - (4) How did the Jolly policeman help the old man and Alan?
  - (5) Why did Kali admire and worship children?
  - (B) Write short note on any one of the following:
    - (1) Subhash Chandra Bose's address to the soldiers
    - (1) Submash Chandra Dose's address to the soldiers
    - (2) Title Playing the Game
    - (3) Laxmibai
- Write a letter to the Karnavati University to sponsor a seminar for awareness of RTI Act.

OR

Draft a letter to a corporate hospital to organize a free medical checkup in your area.

3. Write a letter on behalf of Maan Traders, Motera, Ahmedabad explaining the reasons for a decline in sales.

OR

On behalf of the Principal, draft a letter terminating an agency.

- 4. Do as directed:
  - (A) Match the following:

A

- (1) To bring up
- (2) Keep it up
- (3) To call off
- (4) By leaps and bounds
- (5) To pass away
- (6) All in all

R

- (a) To continue with a good performance
- (b) To cancel
- (c) On a sudden impulse
- (d) To rear
- (e) Whole and sole
- (f) To die

P.T.O.

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MO-114

- (B) Give meanings of the following idioms:
  - (1) A hue and cry
  - (2) Beat about the bush
  - (3) Himalayan task
- (C) Choose the appropriate option:
  - (1) What was the original name of Laxmibai?
    - (a) Manikarnika
- (b) Maniratna
- (c) Manidevi
- (2) The ambition of Subhash Chandra Bose was
  - (a) to train soldiers
  - (b) to defeat the army
  - (c) to equip an army to capture freedom
- (3) Alan was a lover of
  - (a) films
- (b) sports
- (c) books

- (4) What did Kali buy for the children?
  - (a) Sweets
- (b) Pencils
- (c) Toys

- (5) The Hermit lived in a/the
  - (a) Tent

- (b) Hut
- (c) Ashram
- (D) State whether the following statements are TRUE or FALSE:
  - (1) The king easily recognised his enemy the wounded man.
  - (2) Laxmibai was brave even when she was a child.
  - (3) The price of freedom is blood according to Bose.
  - (4) Alan did not like helping the old man.
  - (5) Kali wished he had gone to the school.



Statitori	
ion – IV Life)	
[Max. Marks : 70	)
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Khanna's father do?	
Kilainia 3 laner de .	
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est thing that can befall a man in	
LIBRAR!	
ut its objectives, advantages and	
to its Principal giving suitable	
and conditions for its agency.	
shifting of your firm to another	)
	1
ut intimating the dismissal of an	

**MO-114** 

March-2019

B.Com., Sem.-IV

Commercial Communicati (Text: The Vignettes of

(Old)

Time: 2:30 Hours]

Instruction: Figures to the right side indicate marks.

- (A) Write brief answers of any three of the following 1.
  - Why was the grandfather chosen to serve or (1)
  - On the way, back from the town, what did I (2)
  - What are Taipan's retirement plans? (3)
  - What made Khanna develop a strange dise (4) feet?
  - What according to the clergyman is the be (5) the story 'Luck'?
  - Write short note on any one of the following:
    - Kondiah: The Grain Merchant. (1)
    - Taipan a story of overweening ambition. (2)
    - Evaluate Scoresby's character (3)
- Discuss in detail Personal barriers to Communication. 2.

Write a note on Downward Communication. Point ou limitations.

Write a letter on behalf of The Earth Sales Agency 3. explanation for decline in sales.

OR

Draft a letter on behalf of the Principal offering terms a

(A) Draft a circular informing your customers the s premises.

OR

Draft a circular letter to inform your dealers abo employee.

MO-114

3

P.T.O.

(1) To set off

(a) Very rapidly

B

- (2) At the spur of the moment
- (b) To start
- (3) To get along with
- (c) Huge task
- (4) Himalayan task
- (d) To adjust
- (5) In a nutshell
- (e) To follow the rule
- (6) To abide by
- (f) Briefly
- (C) Give meaning of the following:
  - (1) Heaven knows
  - (2) Not to be on speaking terms
  - (3) Beat about the bush



3



MO-114

Seat No.:

## **MR-103**

March-2019

## B.Com., Sem.-IV

CC-207: Production Management



[Max. Marks: 70

Time : 2:3	0 Hours] [Max. Ma	rks : 70
Instructio	n: Marks indicated on the right side.	
1. (a) (b)	Explain the importance of production control.  Describe the characteristics of production management.  OR	7
(a) (b)	Describe the scope of production management.  Explain the procedure of production planning.	
(c)	Give the meaning: (any four)  (1) Job Production  (2) Batch Production	4
	<ul><li>(3) Continuous Production</li><li>(4) Intermittent Production</li><li>(5) Time Study</li></ul>	<u>G</u>
2. (a)	(6) Path Study	d) (9) <b>7</b>
	(1) Centralised purchasing (2) Decentralised purchasing	_
(b)	(2) Decentralised purchasing  Discuss: (any one)  (1) To purchase or To make  (2) Objectives of scientific purchasing	T OF COM
(c	Explain in short: (any two)  (1) Blanket purchasing  (2) Hand to mouth purchasing	4
	<ul><li>(3) Contract purchasing</li><li>(4) Speculative purchasing</li></ul>	
MR-10	3	<b>P.T.O.</b>

(b) Describe the types of Inventory. OR Explain the guiding principles of Inventory Control. (a) Describe the functions of Inventory Control. (b) Make true pairs: **Inventory Control Base of Distribution** System of Inventory (A) **(B)** 1. FSN Method a. Importance and value of inventory 2. **VED Method** Quantity and quality of inventory b. 3. ABC Method Turnover rate of inventory c. d. Utilizing of spare parts Describe the process of new product development. 4. Describe the problems of launching new product in the market. (b) OR Describe the process of adoption of new product. (a) Explain the factors affecting product mix. (b) Answer in short: (any three) (c) 3 What is the product simplification? (1) State any two types of new product. **(2)** State any two causes for the failure of product. (3) What is the product diversification? State any two objectives of launching new product in market.

Explain the importance of Inventory Control.

3.

(a)

44 2 1	. 7	2		
Seat !	10.	:		

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## **MP-111**

March-2019

### B.Com., Sem.-IV

CE-203 (A): Cost Accountancy-II

Time: 2:30 Hours] [Max. Marks: 70

 (A) The Profit & Loss Account of Vikas Ltd. for the year Ending 31-3-2018 is set out below.

Trade and Profit & Loss A/c

Particulars	₹	Particulars	₹ '
To Opening stock	3,60,000	By Sales (75,000 units)	66,00,000
(finished stock 6,000 unit)	1, - 0 - 0	By Closing Stock	6,60,000
To Direct Material	24,00,000	(finished stock 11,000 units)	
To Direct Wages	12,00,000	. 47.5	
To Factory Expenses	8,00,000	e pari	
To Gross Profit	25,00,000	200	
	72,60,000	** *** * * * * * * * * * * * * * * * *	72,60,000
To Office Expenses	4,00,000	By Gross Profit	25,00,000
To Selling Expenses	4,50,000		
To Net Profit	16,50,000		
and the state of t	25,00,000		25,00,000

The company will produce and sell 1,20,000 units during 2018-19. The estimates for changes in various items are as follows:

- (1) Price of material will go up by 20%.
- (2) In addition to the proportionate increase in the number of workers. 30 new workers will have to be engaged and each of them will be paid ₹ 15,000 p.a. as wages.
- (3) Factory expenses will rise in proportion to the combine cost of material wages.

Dr.

(4)	The office expenses per unit will be reduced by 20%.
(5)	Selling expenses per unit will go up by ₹ 2 per unit.
(6)	The same percentage of profit of last year on selling price is to be
j.	maintained.
	Prepare a cost statement for the year 2017-18 and Estimated cost sheet for
	the year 2018-19 on the basis of the above information.
12.19	OR OR
(i)	What is tender? How is Tender price determined?  Explain the valuation of work-in -progress in cost sheet.  sose the correct option from the given option: (any four)  Rent of a special plant/ Machinery will be included in
(ii)	Explain the valuation of work-in -progress in cost sheet.
Cho	ose the correct option from the given option : (any four)
(1)	Rent of a special plant/ Machinery will be included in
	(A) Direct material (B) Direct labour
	(C) Direct Or chargeable expenses (D) Factory cost
(2)	Suppose the total cost of a product is ₹ 10,000 and if 20 % profit is to be
	calculated on the selling price, then what will be the profit on the cost
1	price ?
	(A) ₹ 2,000 (B) ₹ 1,500
	(C) ₹ 2,500 (D) ₹ 3,000
(3)	Legal expenses are shown in cost sheet as
in the second	(A) Direct expenses (B) Distribution expenses
	(C) Office expenses (D) Factory expenses
(4)	Cost of sales is ₹ 3,60,000. Amount of profit is ₹ 40,000. State the
	percentage of profit on Sales.
	(A) 12 % (B) 11 %
11.8	(C) 10% was a regulated that the (D) 9% the first
(5)	From the following, which item is not shown in cost sheet?
	(A) Salary (B) Indirect material
V . E	(C) Income tax paid (D) Indirect wages
(6)	Rent of a special plant is added to which expenses while preparing
	statement of cost?
savis	(A) Factory Expenses (B) Direct material
	(C) Direct expenses (D) Office expenses

(B)

2. (A) The following is Trading and Profit & Loss Account of Morli Ltd. for the year ended on 31-3-2018:

14

Dr.

	4 °	Cr.
₹	Particular	₹
58,000	By Sales (7,600 units)	18,24,000
		1
6	work-in- process	a fre
5,96,000	Materials 8,000	Min
3,81,500	Direct wages 11,000	
7,39,300	Factory Exp. 6,600	25,600
12/MG	By Closing stock of raw	64,000
111	materials	
5, n 15 15 1	By Closing stock of	2,35,200
F 2 1/4 - 11 -	finished goods (1,400	
Sec 5	units)	
21,48,800		21,48,800
2,45,000	2 FO J. P. C. P. P. C. P. C. P. P. C	
2,00,000	By Gross profit B/d	7,39,300
1,28,000	By Rent received	6,000
10,000	By Dividend income	5,000
3,000		
4,300	the transfer of the soul	
1,60,000		
7,50,300		7,50,300
	58,000 3,74,000 5,96,000 3,81,500 7,39,300 2,45,000 2,00,000 1,28,000 10,000 3,000 4,300 1,60,000	58,000 By Sales (7,600 units) 3,74,000 By Closing stock of work-in- process 5,96,000 Materials 8,000 3,81,500 Direct wages 11,000 7,39,300 Factory Exp. 6,600 By Closing stock of raw materials By Closing stock of finished goods (1,400 units)  21,48,800 2,45,000 2,00,000 By Gross profit B/d 1,28,000 By Rent received 10,000 By Dividend income 3,000 4,300 1,60,000

#### The cost Accounts reveal:

- The Materials and wages are taken at their cost price. (1)
- Factory overheads are taken at 60% of direct wages. (2)
- Administrative overheads are charged at ₹ 12 per unit of production. (3)
- Selling overheads at ₹ 10 per unit sold. (4)
- Distribution overheads are taken at 10% of sales.

- Prepare: (1) Cost sheet for the year 2017-18
  - (2) Reconciliation statement reconciling the profit of cost account & Financial accounts.

OR

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P.T.O.

	(1)	State the reasons for disagreements in the profit as shown by Cost Accounts							
	********	and Financial Accounts.							
	(ii)	Suppose Factory overheads are absorbed at 50% of direct wages and							
		Administrative overheads at 20 % of Factory cost.							
		Actual total expenditure incurred is as follows:							
		Direct Materials ₹ 80,000							
		Direct Waterials ₹ 80,000  Direct wages ₹ 60,000  Factory overheads ₹ 40,000							
		Factory overheads ₹ 40,000							
		Administrative overheads ₹ 32,000							
		Assuming that 10% of output is still in stock and total sales amounts to							
7.		₹ 2,00,000.							
		Prepare necessary statements and Reconciliation Statement of Cost							
		Accounts and Financial Accounts.							
(B)	Choc	ose the correct option from the given option: (any four)							
	(1)	Which item is not considered in Financial Accounts?							
		(A) Donation (B) Notional salary of the owner							
		(C) Interest (D) Material							
	(2)	Which item is not considered in Cost Accounts?							
		(A) Indirect expenses (B) Interest							
		(C) Material (D) Wages							
	(3)	Expense not recorded in Financial Accounts-							
		(A) Office salary (B) Rent of own house							
		(C) Bank Interest (D) Commission							
	(4)	Goodwill written off is recorded in							
		(A) Financial Accounts and Cost A/c both							
		(B) Financial A/c							
		(C) Cost Accounts							
		(D) None of these							
	(5)	When loss as per Cost Accounts is ₹ 60,000 and Goodwill written off is							
		₹ 4,000, the loss as per the Financial book would be as under:							
		(A) ₹ 56,000 (B) ₹ 64,000							
T.	,	(C) ₹ 52,000 (D) None of these							
d'	(6)	Amount recorded in profit & Loss Account, but not recorded in cost							
		Accounts.							
. The state of	it out	(A) Factory Expenses (COLLEGE) Preliminary Expenses							
		(A) Factory Expenses (B) Preliminary Expenses (C) Office Expenses (D) None of these							
		11 (1)							
11	A	12 ZY LIBRARY							

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3.	(A)	dist in a	Banas Transport Company owns a fleet of 4 buses which are used to carry students of Akur school from Paldi Bus-stand to school and back covering a total distance of 20 kms. Each bus makes two round trips a day and carries 50 students in a single trip. All the buses work 25 days in a month.					
		pass	lowing are the expenses from which you are required to calculate cost per senger(student) km to Madhav transport company.					
,		(1)	Salary of 4 drivers per month ₹ 40,000					
,		(2)	Salary of 4 cleaners per month ₹ 32,000					
		(3)	Diesel charges per litre ₹ 65					
		(4)	Road taxes per day per passenger ₹ 4					
		(5)	Licence fees per bus per year ₹ 2,400					
		(6)	Garage rent per bus per year ₹ 48,000					
		(7)	Insurance charges(yearly) on cost of vehicle 5%					
		(8)	Maintenance 50% of depreciation charges.					
		(9)	Each bus costs ₹ 11,00,000 and has scrap value of ₹ 1,00,000 at the end of its life of 10 years.					
		(10)	Each bus runs 8 km in one litre diesel.					
		Scho	ool contributes 50% of the freight to be charged from student. If 1/4 of the cost					
		is ch	narged as profit by Madhav Transport company, what will the student pay per the to the school as transport charges?					
			OR					
		(i) '	Explain the meaning of operating Costing and narrate its Characteristics.					
		(ii)	Give a pro-forma of a Operating Cost Sheet.					
	(B)		ose the correct option from the given option : (any three)					
	()	(1) Which of the following is not fixed expenses for Operating Costing?						
		(-)	Which of the following is not fixed expenses for Operating Costing?  (A) Petrol  (B) Salary of the Driver					
			(C) Office Rent (D) Municipal tax					
		(2)	Which of the following is not included in Operating industry?					
		(2)						
			The way					
		(2)	(C) Railway (D) Hotel Which of the following is not Variable expenses for Operating Costing?					
	1	(3)						
			(C) Maintenance (D) None of these					
		(4)	Which of the following items is considered a variable cost from the viewpoint of a transport undertaking?					
		ed to d	(A) Tyres and Tubes (B) Accountant's salary					
			(C) Rent, rates and taxes (D) Cleaner's salary					
		(5)	Which of the following cost unit is adopted by Goods Transport company?					
			(A) Per ton Km. (B) Per ton					
			(C) Per trip (D) Per Km.					

The Following information is available from the books of Vanaraj Construction company for the year ended on 31-3-2018.

	老本 等
10. A. O.	
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13/ 3	13
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13/1	
Warung	*//
HREE	

Particulars	₹
Work in progress	31-3-2017
Work certified	3,00,000
Work uncertified	20,000
Machinary (Original cost ₹ 1,00,000)	80,000
Materials	10,000
Reserve profit (31-3-2017)	20,000
Outstanding wages(31-3-2017)	4,000
Prepaid sundry expenses(31-3-2017)	1,000
Expenses incurred during the year 2017-18	1,000
Materials supplied from stores	1,40,000
Materials purchase from suppliers	20,000
Materials destroyed by fire (it was not insured)	4,000
Allotted overheads for this contract	10,000
Sundry expenses paid	4,000
Wages paid	60,000
Total supervision charges (3/4 time is devoted on this contract)	20,000
Special plant supplied on 1-10-2017	20,000

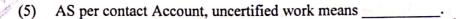
- Depreciation is written off at 20% by straight line method for both the types (i) of machines.
- Work certified on 31-3-2017 was 30% of the contract price. (ii)
- Cash received is 80% of work certified, during the year, the contractee paid
- (iv) On 1-10-2017 a piece of common machinery, originally costing ₹ 20,000 was sold realizing ₹ 10,000.
- 50% of the special plant was destroyed by fire on 31-12-2017 causing a loss (v)
- Outstanding wages on 31-3-2018 are ₹ 2,000 (vi) Required:
  - Contract account for the year ended on 31-3-2018 (1)
  - Work-in -progress account. (2)
  - Calculation of profit to be transferred to the profit and loss account on (3) 2/3 profit as reduced by percentage cash received.

OR

MP-111

(1)			information i	s received	for Job	No. 420 of Mac	lhav Company
	Ltd.		The Hinor	Part Production	84 - 18 A.	a framps - th	7
	(1)	Materials	5 ₹ 5,000.			iquen the file	0
and the	(2)	Wages:	Department-	I 50 Hours	at ₹ 8.0	00 per hour	
			Department-	II 80 Hour	s at ₹ 5	.00 per hour	A LABORATOR OF THE PARTY OF THE
	(3)	Overhead	d expenses we	ere estimate	ed as fo	llows:	SINHS *
		(i) Var	iable overhea	ds:		a kara biy? To	
		Dep	artment-I ₹ 1	0,000 for 5	,000 di	rect labour hour	s.
		Dep	artment-II ₹	15,000 for	3,000 d	irect labour hou	rs.
		(ii) Fixe	ed overheads:	Estimated	at ₹ 2,0	000 for 1,000 ho	urs.
	Calc	culate the	cost of Job N	No.420 and	l detern	nine the selling	price at 20%
	prof	it on sales	price				
(ii)	) Wha	at is meant	by "Pro-form	a Contract	Accoun	nt" ? Explain wl	nen and why it
	is pr	epared? E	xplain.				7
(B) Ch	oose the	e correct o	otion from the	e given opt	ion : (a	ny three)	3
(1)	An a	automobile	service unit	uses	C	osting.	-011
i kaj i je s	(A)	job	17112		(B)	batch	and Control of the
der es. a	(C)	contract			(D)	operating	E (LIGHARY)
(2)	The		Costing is us	ed in printi	ng indu	istry.	355
	(A)	Batch		in the second	(B)	Job	
	(C)	Output			(D)	Contract	
(3)	Cont	tract Costin	ng is mostly u	sed in	2 <b>857</b> 0		
atti.	(A)	Construc	tion 7	tean	(B)	Service	
	(C)	Batch			(D)	job	
111			15	Z <b>.1</b>			P.T.O. 11-91/

- (4) Cost plus contract means \_\_\_\_\_
  - (A) Contract expenses + some percent of profit
  - (B) Contract price fixed from beginning
  - (C) Contract cost increase automatic
  - (D) No change in contract cost



- (A) Work not certified
- (B) Work without permission
- (C) Work-in progress
- (D) Finished Work

