# MULTIPLE CHOICE QUESTIONS

- 1. Which of the following is considered production in Economics?
  - (b) Singing a song before friends

  - (c) Preventing a child from falling into a manhole on the road
  - (d) Painting a picture for pleasure
- 2. Identify the correct statement.
  - (a) The average product is at its maximum when marginal product is equal to average product
  - (b) The law of increasing returns to scale relates to the effect of changes in factor proportions (c) Economies of scale arise only because of invisibilities of factor proportions
  - (d) Internal economies of scale can accrue only to the exporting sector
- 3. Which of the following is not a characteristic of land?
  - (a) Its supply for the economy is limited.
  - (b) It is immobile

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- (c) Its usefulness depends on human efforts
- (d) It is produced by our forefathers
- 4. Which of the following statement is true?
  - (a) Accumulation of capital depends solely on income
  - (b) Savings can also be affected by the State
  - (c) External economies go with size and internal economies with location
  - (d) The supply curve of labour is an upward slopping curve
- 5. In the production of wheat, all of the following are variable factors that are used by the farmer except
  - (a) the seed and fertilizer used when the crop is planted
  - (b) the field that has been cleared of trees and in which the crop is planted
  - (c) the tractor used by the farmer in planting and cultivating not only wheat but also Com and barley
  - (d) the number of hours that the farmer spends in cultivating the wheat fields internal economies with location
  - (e) The supply curve of labour is an upward slopping curve
- 6. The marginal product of a variable input is best described as
  - (a) total product of a variable input is best decer-(b) the product divided by the number of units of variable input

  - (b) the additional output resulting from a one-unit increase in the variable input the additional output resulting from a one-unit increase in both the variable a
  - (c) the additional output resulting from a one-unit increase in the variable and fixed inputs
    (d) the ratio (d) the ratio of the amount of the variable input that is being used to the amount of the fixed input that is being used.
  - is being used 7. Diminishing marginal returns implies \_\_\_\_\_
    - (a) decreasing average variable costs
- (b) decreasing marginal costs (d) decreasing average fixed costs

(c) increasing marginal costs

The	ory o
14.	Wh (a)
15.	What (a)
16.	Wha (a)

- 8. The short run, as economists use the phrase, is characterized by \_\_ (a) at least one fixed factor of production and firms neither leaving nor entering the industry

  - (b) a period where the law of diminishing returns does not hold (c) no variable inputs - that is all of the factors of production are fixed
  - (d) all inputs being variable
- 9. The marginal, average and total product curves encountered by the firm producing in the short,

exhibit all of the following relationships except (a) when total product is rising, average and marginal product may be either rising or falling

- (b) when marginal product is negative, total product and average product are falling
- (c) when average product is at a maximum, marginal product equals average product and total product
- (d) when marginal product is at a maximum, average product equals marginal product and total product is rising
- 10. To economists, the main difference between the short run and the long run is that
  - (a) in the short run, all inputs are fixed, while in the long run all inputs are variable
  - (b) in the short run, the firm varies all of its inputs to find the least cost combination of inputs
  - (c) in the short run, at least one of the firm's input levels is fixed
  - (d) in the long run, the firm is making a constrained decision about how to use existing plants equipment efficiently
- 11. Which of the following is the best definition of the "production function"?
  - (a) The relationship between market price and quantity supplied

  - (b) The relationship between the firm's total revenue and the cost of production
  - (c) The relationship between the quantities of inputs needed to produce a given level of output (d) The relationship between the quantity of inputs and the firm's marginal cost of production
- 12. The "law of diminishing returns" applies to
  - (a) the short run, but not the long run
  - (b) the long run, but not the short run
  - (c) both the short run and the long run
  - (d) neither the short run nor the long run
- 13. Diminishing returns occur
  - (a) when units of a variable input are added to a fixed input and total product falls (b) when units of a variable input are added to a fixed input and marginal product falls
  - (c) when the size of the plant is increased in the long run

(d) when the quantity of the fixed input is increased and returns to the variable input falls

Hours	777	n to answer queeti-
Labour	Total of Output	Marginal
0		Product
1	100	
2	-	100
3	240	80

17. Whi

(a) . (c)

18. Which

(a) 1 (c) I

19. Total variat

> (a) ( (c) II

20. In the

(a) in (c) re

21. Which

(a) Lo (c) Av

22. The cos

(a) pro

(c) rea

23. With wh (a) Var

(c) Opp

24. Which o

(a) Whe

(b) Whe

(c) Whe

(d) When

25. Which of (a) The v

(b) The in

(c) The p

(d) The n 26. Which of the

Interes (b) The pa

The int

							O sales I.
What is the total output when (b)	2 hours of labour						New York
14 What to (b)	100	e emp	oyed?				
(a) 00		(0)	A SHARE THE PROPERTY OF THE PARTY OF THE PAR				
What is the marginal product (b)	80	abour	?	(d)	200		
(a) OU		(c)	100				
What is the average product o	f the first three hours	of 1-1	.00	(d)	240		
(a) 60	00	(c)	100	(d)	240		
Which cost increases continue	ously with the increas	se in p	production?	(4)	240		
(a) Average cost		(b)	Marginal cost				
(c) Fixed cost		(d)	Variable cost				
18. Which of the following cost co	urves is never 'U' sha	ped?					
(a) Average cost curve			Marginal cost curv	200			
(c) Average variable cost cur	ve	(d)	Average fixed cost	curve			
19. Total cost in the short run is			d vomiable as to 1471	. 1	6.1 6	11	
variable cost?	mio nacu ci	osts at	id variable costs, wi	iich oi	ne of the fo	ollowin	g is a
(a) Cost of raw materials	t veen acits	(b)	Cost of equipment				
(c) Interest payment on past			Payment of rent on		ing		
20. In the short run, when the ou					-		
(a) increases	itput of a firm mercas		decreases				
(c) remains constant		, ,	first declines and th				
	alaa Irnayyn ac nlann						
21. Which one of the following is		(b)	Short-run average	cost cu	irve		
(a) Long run average cost cu			Average total cost of				
		3000					
22. The cost of one thing in term	is of the alternative gr	(b)	physical cost				
(a) production cost		(d)	opportunity cost				
(c) real cost	The control of the co						
23. With which of the following	is the concept of marg	gmar c (b)	Fixed cost				
(a) Variable cost		(d)	Economic cost				
(c) Opportunity cost	A Control of the Cont	5d\30					
24. Which of the following states	ments is correct?	aget n	oust also be rising				
1 191 10/1	· · · · · · · · · · · · · · · · · · ·	COSt II	oust be falling				
(b) When the average cost is	s rising, the marginal	COSt 1	above the average of	ost			
when the average cost i	s falling, the margina						
Which acr	· Can "explic	at cost		a large	firm	C	
(a) The wages a proprietor (b) The income that could l	could have made by w	vorkin	g as an empty	irces o	wned by th	ie nriii	
		lterna	live uses by				
(c) The payment of wages by The payment of	by the firm			atoril.			
(d) The normal profit earner	ed by a firm		ages bush some			-sior	
(a) Interest that could have	mple of an "impli	cit cos	it"!	rm to	finance exp	parision	
Interest the following is an	example of an	ned ea	rnings used 27				
(b) Interest that could have (c) The payment of rent by	been earlied build	ing in	which it is a bank	(Local)			
(c) The Payment of rent by	the lilli to	inds b	orrowed				
(d) The payment m	nade by the and	1 - 1 -				No. September 1	NAME OF THE OWNER O

short run

otal product

otal product

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### Use the following data to answer questions 27-29.

Output	Total Cost
0	240
1	330
2	410
3	480
4	540
5	610
6	690

27. The average fixed cost of 2 units of output is		
(a) ₹80 (b) ₹85	 (c) ₹120	(d) ₹ 205
28. The marginal cost of the sixth unit of output is		0.1800.0108.11
(a) ₹133 (b) ₹75	(c) ₹80	(d) ₹ 450
29. Diminishing marginal returns starts to occur b	etween units	(a) \ 450
(a) 2 and 3 (b) 3 and 4	(c) 4 and 5	at Cell of raw materials
30. Marginal cost is defined as		(d) 5 and 6
<ul><li>(a) the change in total cost due to a one unit c</li><li>(b) total cost divided by output</li></ul>	hange in output	
<ul><li>(c) the change in output due to a one unit cha</li><li>(d) total product divided by the quantity of in</li></ul>	nge in an input	
31. Which of the following is true of the relationship functions?	ip between the marginal co	ost function and the average
		ent gradient to her al
(b) The ATC curve intersects the MC curve at	minimum MC	
(d) If MC is less than ATC than ATC	minimum ATC	
32. Which of the following statements is true of the  (a) ATC = AFC - AVC  (c) AFC = ATC + AVC	e relationship am-	
(c) $AFC = ATC + AVC$	(b) A $VC = AFC + A$ (d) $AFC = ATC$	erage cost functions?
<ul><li>33. Which of the following is not a determinant of</li><li>(a) The production function</li></ul>	(d) $AFC = AFC + A$ the firm's cost $C$	C TO THE STATE OF
		A STATE OF THE STA
(c) laxes  34. Which of the following statements is correct function?  (a) TC = TFC - TVC	(d) The price of labor t concerning the relation	ar
function?		
(a) TC = TFC - TVC	(b) TVC = TFC - TC (d) TC = TVC	among the firms
<ul><li>(c) TFC = TC - TVC</li><li>35. Suppose output increases in the short run. Total</li></ul>		mail ampagnatail (c.
(a) increase due to an increase in fixed costs or	The state of the s	Auto language of
(L) increase due to an increase in variable costs	only	Contract of the last of the la
in arrease due to an increase in both fixed an	d variable costs	
(d) decrease if the firm is in the region of dimir	nishing returns	Phylogody (d)

continuously with the inci-

36. Which of the

(a) It repres

(b) It is deri (c) The short

least cost (d) As outpu

37. The negativel following?

(a) Disecono

(b) Diminish

(c) The diffic

(d) The incre

38. The positively following?

(a) Diseconor

(b) Diminishi

(c) The firm b

(d) The increa

39. A firm's average producing the 6 (a) ₹20

40. A firm producin of production w (a) ₹200

41. A firm has a vari total costat 5 unit (a) ₹280

42. A firm's average f (a) ₹60

43. Which of the follo

(a) The services ( (b) Man can creat

(c) The services of (d) When a man o

44. Which of the follow

(a) Initiating a bus

(c) Innovating 45. In describing a give

(a) up to six month 46. If decreasing returns

(a) Creasing returns
(b) Output will also output will incre

	Which of the following statements concerning the long-run average co	
	(a) It represents the least cost input combination for producing each (b) It is derived "from a series of short-run average cost curves.	Ost curve is false?
	1 . Die deriven from a series of chant	leves) - e
	(c) The short-run cost curve at the minimum point of the least	Les et each matemple at less and
	least cost plant size for all levels of output	average cost curve represents the
	(d) As output mercuses, the amount of capital employed by the con-	THE PUBLISH ROOM & LAND
,	The treatment of the long-run average	thereases along the curve
	following?	cost curve is due to which of the
	(a) Diseconomies of scale	
HER	(b) Diminishing returns	
	(c) The difficulties encountered in coordinating the many activities	of a large firm
	(d) The increase in productivity that results from specialization	
	38. The positively sloped (i.e., rising) part of the long run average total following?	l cost curve is due to which of the
	(a) Diseconomies of scale	
16	(b) Diminishing returns	
A STATE	(c) The firm being able to take advantage of large-scale production	techniques as it expands its output
	(d) The increase in productivity that results from specialization	annular manadour a part (10)
	39. A firm's average total cost is ₹ 300 at 5 units of output and ₹ 320 at 6 producing the 6 <sup>th</sup> unit is	
	(a) ₹20 (b) ₹120 . (c) ₹320	(d) ₹420
	a total cost of \$150 p	nd has to pay ₹ 350 to its fixed factors
i the averageo	of production whether it produces or not. How much of the average of	otal cost is made up of variable costs.  (d) ₹ 100
	(a) ₹200 (b) ₹30 41. A firm has a variable cost of ₹ 1000 at 5 units of output. If fixed cos	man nemerical and management (b)
	total costat 5 units of output? (c) ₹ 120	(d) ₹1400
	to the state of output. What will it be	e at 4 units of output?
		(d) ₹20
nctions?	43. Which of the following statements is true?	a sell man i man man and i lal
	(a) The services of a doctor are considered production	
		the late of the particular particular and the
	(c) The services of a housewife are considered production	
	(d) When a man greater a table, he creates much	
t ang the firm	firm Which of the following is a function of an entrepreneur?  (a) Which of the following is a function of an entrepreneur?  (b) Risk bear	ing
ing the		anove
	the short run is best of	described as tarting
	(a) (b) up to five	s at least one input is fixed
	(a) up to six months from now (b) as long as l	eased by 10% then
	(a) up to six months from now (d) as long as (e) as long as all inputs are fixed  (a) lf decreasing returns to scale are present, then if all inputs are increased (a) outputs all the present by 10%	THE RESERVE THE PROPERTY OF THE PARTY OF THE
	1 MUDIII WILL ALEA ARPENISE LIV LV 17	
	(b) output will increase by 10%	SHARLES STORES A

(c) output will increase by less than 10%  (d) output will increase by more than 10%	56. T
(d) output will increase by more than 1078  47. The production function is a relationship between a given combination of inputs and	
(a) another combination that yields the same output	1
(1) the highest reculting output	
(b) the highest resulting output (c) the increase in output generated by one unit increase in one output	
(d) all levels of output that can be generated by those inputs	
(d) all levels of output that can be generated by the second of labour, it must be true to	
48. If the marginal product of labour is below the average product of labour, it must be true that	(a)
(a) the marginal product of labour is negative	(c)
(b) the marginal product of labour is zero (c) the average product of labour is falling	57. Wh
(d) the average product of labour is negative	(a)
49. The average product of labour is maximized when marginal product of labour	(b)
(a) equals the average product of labour (b) equals zero	(c)
(c) is maximized (d) none of the above	(d)
50. The law of variable proportions is drawn under all of the assumptions mentioned below except assumption that	58. The (a)
(a) the technology is changing	(c)
(b) there must be some inputs whose quantity is kept fixed	59. If ma
(c) we consider only physical inputs and not economically and C. 1 11.	(a) a
9) to Profit and Stable	(c) a
51. What is a production process?	60. In the
(a) Technical relationship between physical inputs and physical output  (b) Relationship between fixed factors of read and physical output	(a) a
(b) Relationship between fixed factors of production and variable factors of production  (c) Relationship between a factor of production and the activity.	(b) a
(c) Relationship between a factor of production and variable factors of production (d) Relationship between quantity of output produced.	(c) at
(d) Relationship between quantity of output produced and time taken to produce the output  (a) returns to scale	(d) at
rectified to ecolo	61. Averag
(c) law of variable (b) 1	(a) to (b) tot
53. Identify the fixed cost from the following  (a) labour cost  (b) law of diminishing returns to a factor (d) least cost combination of factors	(c) tot
(C) Salary of watch	(d) ma
54. Which of the following is not (d) cost of men	The cha
54. Which of the following is not an assumption of the law of variable proportions?  (b) electricity bill (d) cost of raw materials (e) Technique of production remains contains a second contains and contains a second contains a	(4) 27
(b) Technique of production remains constant.  (c) Proportion of factors of production.	
(c) Proportion of factors of production remains.  (d) Units of variable factor are homogeness.	63. Margina (a) total (c)
(d) Units of variable factor are homogeneous.	64. Sur marg
which of the lonowing statement is con-	
(h) Fortility of land	( daro
(c) Land does not yield any result unless t	Dha!
(c) Land does not yield any result unless human efforts are employed.	(a) law of alway
The state of the s	(c) always

56. The production process described below exhibits

. Catholi		
Output		
0		
23		
40		
50		

(a) constant marginal product of labour

(b) diminishing marginal product of labour

(c) increasing return to scale

(d) increasing marginal product of labour 57. Which of the following is a variable cost in the short run?

(a) Rent of the factory.

(b) Wages paid to the factory labour.

(b) 100

(a) always diminish

(c) always diminish before increasing

(c	) Interest payments on borrowed financial capital	al.	into a serious works are ten a family at the sail
(d			gotter statement to the fact of the fact
. T	he efficient scale of production is the quantity of o	outou	at that minimizes
(2	a) average fixed cost	(b)	
(0	c) average variable cost	(d)	marginal cost
). If	marginal cost equals average total cost,		
	a) average total cost is falling		average total cost is rising
(	c) average total cost is maximized	(d)	average total cost is minimized
0. I	n the long run,		as the look out, if a very small factors with
(;	a) all inputs are fixed		
(	b) all inputs are variable	7	almetresimona (
	c) at least one input is variable and one input is fix	red	
(	d) at most one input is variable and one input is fi	xed	
51.	Average product is defined as		c) uses terrow as output decreases
(	(a) total product divided by the total cost		or the fact of the sound some fact of suff or a
-	(b) total product divided by marginal product		
	(c) total product divided by the variable input		
olole o	(d) marginal product divided by the variable input	16.01	in the input is
62.	The change in the total product resulting from a cha	inge:	average product
	(a) average cost	101	marginal product
63	(c) marginal cost	•	ING VAPALTURE LOSA SCLOPE SE TROP RETERMINE AND
	Marginal product, mathematically, is the slope of the	(b)	average product curve
	(a) total product curve	111	:ligit product curve
64	(c) marginal product curve Suppose the first four units of a variable input gener. The marginal product curve	ate c	orresponding total outputs of 200, 550,
	The marginal product of the third unit of input is	(c)	
		(0)	130

(c) 150

(b) eventually diminish

(d) never diminish before increasing

elow except t

at

output

a factor ors

66. Diminishing marginal returns for the first four u	units of a variable input is exhibited by the total $p_{rod_{\mathbb{Q}}}$
sequence	
(a) 50, 50, 50, 50	(b) 50, 110, 180, 260 (d) 50, 90, 120, 140
(c) 50, 100, 150, 200	
67. If marginal product is equal to average product, t	
(a) marginal product is increasing	(b) marginal product is decreasing
(c) average product is decreasing	(d) average product is not changing
68. In the third of the three stages of production	- anodel 16 to thous language and
(a) the marginal product curve has a positive slo	pe size of many mineral
(b) the marginal product curve lies completely b	
(c) total product increases	some surficients anomalies, a enfluctional State of the Party
(d) marginal product is positive	Anagrant to task (2)
69. When marginal cost are below average total costs	10 Year spaid to the factory labour.
(a) average fixed costs are rising	(b) average total costs are falling
(c) average total costs are rising	(d) average total costs are minimized
70. If the average cost is falling, then	The efficient state of production is the strapaty of o
(a) marginal cost is rising	(a) are see fixed cost
(b) marginal cost is falling	id average pirtable cost
(c) marginal cost is equal to average cost	The spiral cost equals average total costs
(d) it is impossible to tell if marginal cost is risin	g or falling
71. In the long run, if a very small factory were to initially experience	expand its scale of operations, it is likely that it would
(a) an increase in pollution level	(b) diseconomies of scale
(c) economies of scale	(d) constant returns to scale
72. The difference between average total cost and ave	rage variable cost
(a) is constant	(b) is total fixed cost
(c) gets narrow as output decreases	(d) is the average fixed and
73. In the long run, some firms will exit the market if (a) marginal revenue	the price of the good offered for sale is less than
(a) marginal revenue (c) average total cost	(b) marginal cost
	(d) average revenue
74. The marginal cost for a firm of producing the 9th output is ₹ 15. Which of the following must be true	unit of output is ₹ 20. Average cost at the same level.
(a) Marginal cost and average cost are both fallin	a mort gambes reading to out at a feet a
(b) Marginal cost and average cost are both rising	8.
(c) Marginal cost is rising and average cost is fall	ing
(d) It is impossible to tell if either of the curves an	re rising or fall:
75. Labour is defined as	or railing.
(a) any work done without remuneration	the first four men of a variable input year
(b) any exertion of mind or body to get some rew	
(c) helping the mother	001 (d)
(d) helping the friends	emalini carrier innersin en lavia b to - 100
76. The most important function of an entrepreneur i	s to
(a) innovate	(b) bear the sense of responsibility
(c) finance	(d) earn profit

77. Which one

(a) Land (b) The su

(c) Capita

(d) Capita

78. Which one

(a) Land h

(b) Labour (c) Risk in

(d) The su

79. Marginal co

(a) total co

(c) variable

80. Which of the

(a) Fixed co (b) If we add

(c) Margina

(d) Total cos

81. Which of the

(a) The LAC

(b) Total Rev

(c) Opportur

(d) If total rev

82. The average pr (a) AC and To

83. Rectangular hy

(a) TFC 84. If one unit of la

capital give 400 then this is a cas

(a) constant ret (c) decreasing 1

85. The vertical diffe

(a) MC

86. The law of variab (a) there are onl

(b) there is a fixe

all factors are (d) variable facto

(a) Wages of the l

(c) Interest on ow

88. Bozzo's burgers are a small restaurant and a price taker. The table below provides the data of Bozzo's

 10000	enu is	Sars	,020	-	
and	cos	tsin	Ru	nees.	

nd cost	ts in Ku	THE RESERVE OF THE PARTY OF THE	20	30	40	50	60
Qty.	0	10	20	the same of the same of	540	790	1060
T.C.	100	210	300	400	323	1	
TFC				-	A Commission		4
TVC							
AVC							
ATC		The state of the s					
MC						1	Andrew Marie

Land Andrews and the second	1 1 ti- Pogade proj	fit maximizing level of output	It
If burgers sell for ₹ 14  (a) 10 burgers	(b) 40 burgers	fit maximizing level of outpo (c) 50 burgers	(d) 60 burge
	able cost when 60 burgers	are produced?	
(a) ₹690	(b) ₹960	(c) ₹110	(d) ₹440
on What is average fixed	l cost when 20 burgers are	produced?	
(a) ₹5	(b) ₹3.33	(c) ₹10	(d) ₹2.5
91. Retween 10 to 20 but	rgers, what is the marginal	cost (per burger)?	
(a) ₹11	(b) ₹13	(c) ₹14	(d) ₹9

Use Table to answer questions 92 to 93.

Hours of Labour	Total Output	Marginal Product
0	0	0
, 1	200	200
2	-	160
3	480	

		3	480		
92.	What is (a) 160	s the total ou 0	tput when 2 hours of la (b) 200	bour are employed? (c) 360	(d) 400
93.	What is	s the margin	al product of the third h		
	(a) 12	0	(b) 160	(c) 200	(d) 480
94.	The law	v of diminisl	ning returns		
				able input, the average prod	uct of that variable input hep
	(b) ass	sumes that the	nere is technological im	Drovement	
	(c) sta	crease stead	ond some level of a vaily	riable input, the marginal	product of that variable begin
	(d) inf	forms a firm	whether or not to use a	factor inner	
95.	When is prod	the luctive efficient	firms must be producin ency,	g at the minimum point of t	he average cost curve and so

(a) 
$$AC = AR$$

(c) 
$$MC = MR$$

(d) 
$$AR = MR$$

ess Economics

Bozzo's output

urgers

0

5

Suppose that a sole proprietorship is earning total revenues of ₹ 120,000 and is incurring explicit costs 

(a) the firm is incurring an economic loss

(b) implicit costs are ₹ 90,000

(c) the total economic costs are ₹ 100,000

(d) the individual is earning an economic profit of ₹ 25,000

Use Table to answer questions 97 to 98.

Hours of Labour	Total Output	Marginal Product
0	0	0
1	300	300
2		240
3	720	_

97. What is the total output when 2 hours of labour are employed?

(b) 200

(d) 540

%. What is the marginal product of the third hour of labour?

(b) 160

(c) 200

(d) 180

99. All of the following are U shaped curves except the \_

(a) AVC curve

(b) AFC curve

(c) AC curve

(d) MC curve

- The following are some of the costs of a clothing manufacturer. State which among them will you consider as fixed cost?
  - (a) Cost of cloth.
  - (b) Piece wages paid to workers.
  - (c) Depreciation on machines owing to time.
  - (d) Cost of electricity for running machines.

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## ANSWERS WITH DETAILED REASONING

- **Note:** In CA FOUNDATION exam, there is no need to give reasons. These reasons are given only for the understanding of the students.
- Ans. 1 (a)
  Since tilling of soil is an economic activity.
- Ans. 2 (a)

  When AP is maximum, then MP = AP, or say MP curve cuts the AP curve at its maximum point.
- Ans. 3 (d)

  Land is free gift of nature. It is not produced by our forefathers.
- Ans. 4 (b)
  Since government also earn income, it can also effect savings.
- Ans. 5 (b)

  Land is a fixed factor as it cannot be changed with level of output.
- Ans. 6 (b)

  The MP of a variable input is best described as the additional output resulting from a one unit increase in the variable input.
- Ans. 7 (c)

  Diminishing marginal returns implies increase in costs hence increasing marginal costs.
- Ans. 8 (a)

  The short run, as economists use the phrase, is characterized by at least one fixed factor of production and firms neither leaving nor entering the industry. Remember law of variable proportion is applicable in short period.
- Ans. 9 (d)

  The firm producing in the short run will not exhibit that when marginal product is at a maximum, average product equals marginal product, and total product is rising.

- Ans. 10 (c)
  - The short run, as economists use the phrase is characterized by at least one fixed factor of production and firms neither leaving not entering the industry. Remember law of variable proportion is applicable in short period.
- Ans. 11 (c)

  The best definition of the production function is "the relationship between the quantities of inputs needed to produce a given level of output".
- Ans. 12 (a)

  The "law of diminishing returns" is a part of law of variable proportion which applies to the short run, but not the long run.
- Ans. 13 (b)

  Diminishing returns (stage-II) occur when units of a variable input are added to a fixed input and MP falls.
- Ans. 14 (c) 100 + 80 = 180

Hours of Labour	Total Output	Marginal Product
0		
1	100	100
2	180 (100 + 80)	80
3	240	60(240-180)

- Ans. 15 (a) 240 180 = 60
- Ans. 16 (b)

  TP

  Hours of Labour  $= \frac{240}{3} = 80$

Ans. 17 (d)

Variable costs are directly related with the level of production. Thus, with the increase in the level of production variable cost also increases.

Ans. 18 (d)

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With increase in production, AFC always falls.

Ans. 19 (a)

Cost of raw material changes with change in level of output.

Ans. 20 (b)

In the short run, when the output of a firm increases, its AFC decreases.

Ans. 21 (a)

LAC is also known as planning curve because a firm plans to produce any output in the long run by choosing a plant on the long run average cost curve corresponding to the given output.

Ans. 22 (d)

The cost of one thing in terms of the alternative given up is known a opportunity cost.

Ans. 23 (a)

MC depends upon TC and TC changes with changes in VC.

Ans. 24 (c)

In the relationship between AC and MC when the AC is rising, the MC is above the AC.

Here (a) is also correct.

Ans. 25 (c)

Explicit cost is the payment made to the external factors of production. Hence, the payment of wages by the firm is an explicit cost.

Ans. 26 (a)

Implicit cost is the cost of self supplied factors of production. Hence, interest that could have been earned on retained earnings used by the firm to finance expansion is implicit cost.

Ans. 27 (C)

TC			
	FC	AFC	MC
240	240		MC
330	240		
410		240	90
	240	120	80
480	240	90	
540	240	1	70
	240	60	60
610	240	48	70
690	240	-	80
	410 480 540 610	240     240       330     240       410     240       480     240       540     240       610     240	240     240       330     240     240       410     240     120       480     240     80       540     240     60       610     240     48

The above table is short run cost table and in the above table, AFC at 2 units of output is 120 (240/2).

Ans. 28 (c)

In the above table, MC at 6 unit is 690 - 610 = 80.

Ans. 29 (c)

When diminishing marginal returns start in stage-II under law of variable proportion, then MC increases and here MC increase from 60 to 70 at the output 4 and 5 units.

Ans. 30 (a)

Marginal cost is defined as the change in total cost due to a one unit change in output.

Ans. 31 (c)

When AC is minimum, then MC = AC. In other words, MC curve cut to AC curve at its minimum point.

Ans. 32 (d)

ATC = AFC + AVC; hence, AFC = ATC - AVC.

Ans. 33 (d)

The price of the firm's output is not a determinant of the firm's cost functions.

Ans. 34 (c)

Total Fixed Cost = Total Cost - Total Variable Cost.

Ans. 35 (b)

In short run, only variable cost increase and fixed cost remains the same.

The statement 'the short-run cost curve at the minimum point of the long-run average cost curve represents the least cost plant size for all levels of output' is not correct.

Ans. 37 (d)

In the long run, firm achieve specialisation; hence, the negatively sloped (i.e., falling) part of the long-run average total cost curve is due to the increase in productivity that results from specialization.

Ans. 38 (a)

In the long run, economies turns into diseconomies; hence, the positively sloped (i.e., rising) part of the long run average total cost curve is due to diseconomies of scale.

Ans. 39 (d)

$$TC = AC \times Q$$

$$AC \times Q = TC MC$$

$$300 \times 5 = 1500$$

$$320 \times 6 = 1920 \quad 420$$

Ans. 40 (d)

$$AVC = AC - AFC$$

$$350/7 = 50$$

Ans. 41 (a)

$$ATC = AFC + AVC$$

$$280 = 200 + 80$$

Ans. 42 (b)

$$FC = AFC * Q$$

AFC at 4 units of output

$$FC/Q = 120/4 = 30$$

Ans. 43 (a)

The statement that the services of a doctor are considered production is correct.

Ans. 44 (d)

An entrepreneur has to initiate a buenterprise, bear the risk and innovate products.

Ans. 45 (d)

In the short period, one factor remains and the other is variable.

Ans. 46 (c)

In case of decreasing returns, the output increases less than the change in input. If inputs are increased by 10%, then output increase by less than 10%.

Ans. 47 (b)

The production function is a relational between a given combination of inputs and highest resulting output.

Ans. 48 (c)

If the marginal product of labour is below average product of labour, it must be true to the average product of labour is falling.

Ans. 49 (a)

The AP of labour is maximized when MP d labour equals the AP of labour.

Ans. 50 (a)

In the law of proportion, the assumption is the technology does not change.

Ans. 51 (a)

Production process (function) relationship between input & output.

Ans. 52 (d)

Law of production does not include least combination of factors.

Ans. 53 (c)

Salary of watchman is example of the fixed cost.

Ans. 54 (c)

Proportion of factors of production remains are is an assumption of the law of returns scale.

### Ans. 55 (c)

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Land does not yield (produce) anything unless human efforts are employed is correct

#### Ans. 56 (b)

It is the case of diminishing marginal product because marginal output decrease here.

No		decrease here,
0	Total Output	Marginal Output
4	0	0
1	23	23
2	40	17
3	50	10
57 (b)	Note the second control of the second contro	Managaran M

### Ans. 57 (b)

Wages is an example of variable cost.

### Ans. 58 (b)

The efficient output point is that point where Average Total Cost (ATC) is minimum.

### Ans. 59 (d)

When MC = ATC, the ATC is minimum because MC cuts (equal) to ATC at its minimum point.

### Ans. 60 (b)

In the long run, all inputs are variable and can be changed in same proportion.

### Ans. 61 (c)

### Ans. 62 (d)

$$MP = \frac{TP}{Variable Input (Labour)}$$

### Ans. 63 (a)

MP is the slope of TP curve.

### Ans. 64 (b)

Third unit will be 450 - 350 = 100.

### Ans. 65 (b)

Under law of diminishing marginal returns, marginal returns eventually diminish (always diminish only in 2nd stage).

### Ans. 66 (d)

TP = 50, 90, 120, 140 and MP 0,40, 30, 20 are marginal returns apply here.

### Ans. 67 (d)

If MP = AP, then AP remain constant and AP is not changing.

### Ans. 68 (b)

In the third stage, MP become negative and TP decrease, so we can say MP < AP.

### Ans. 69 (b)

When MC < ATC, ATC curve is falling.

### Ans. 70 (d)

If AC is falling, then MC may be rising, falling or equal to AC, so it is impossible to tell that MC is falling or rising.

### Ans. 71 (c)

In the long run, initially law of increasing returns to scale apply, so cost decreases and economics of scale arises.

#### Ans. 72 (d)

ATC = AFC + AVC, so ATC - AFC = AVC.

#### Ans. 73 (c)

In the long run if P < ATC, then some firms will exit the market, and in the short run if P < AVC, then same firms will exit the market.

#### Ans. 74 (b)

MC is 20 and AC is 15, and if MC > AC, then MC & AC are both raising.

#### Ans. 75 (b)

Labour is defined as any physical or mental work to get some reward.

#### Ans. 76 (b)

'Bear the sense of responsibility' reflects 'risk bearing' capacity and it is most important function of an entrepreneur.

#### Ans. 77 (d)

Capital consists that part of production which used for further production. Other are incorrect.

## Ans. 78 (d)

Supply & lend are inelastic.

## Ans. 79 (c)

In the short run, MC change due to change in VC because MC =  $\Delta$  TVC/ $\Delta$ Q.

Ans. 80 (d) TC = TFC + TVC, other are incorrect.

Ans. 81 (d)

not MR. Correct is that = -Number of Units Sold TR \_ = AR,

## Ans. 82 (c)

profits. between AC and AR, it is also called super The average profit is equal to the difference

## Ans. 83 (b)

same. in which at every points TFC remain the Rectangular hyperbola is the shape of AFC

## Ans. 84 (a)

2+2	1+1	0	No of units (Capital + Labour)
400	200		TP
200	200		MP

#### (Capital + Labour) constant, thus there are constant return a case of returns to scale and also the My are increasing in the same proportion No of units Since both the fixed and Variable lay 3+3 5+5 4+4 1000 800 600 ŧ

Ans. 85 (c)

TFC = TC - TVC

## Ans. 86 (b)

change in output when one factor is while others may be variable. constant while the other factors are change Thus, there should be at least one fixed far The law of variable proportion explain

## Ans. 87 (c)

money capital is implicit cost. of production. Hence, interest on OWIN Implicit cost is the cost of self supplied factor

## Ans. 88 (b)

Profit maximization condition MR= MC.He Marginal Cost (14) = Marginal Revenue (14)

	00	60	50		40	00	30	20	30	0.1	10	0		Quantity	Name and Address of the Owner, where the Parks of the Owner, where the Parks of the Owner, where the Owner, which the Owner,
-	TOOU	1000	790	OFC	540	400		300	-	210		100		Total Cost Fixed Cost	
1	100		100	100		100		100		100		100		<b>Fixed Cost</b>	
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17.66	and the same of th	15.8	10:0	13.5	13.33		15		21		1	-	Variable Cost	Average	
/	111		25	4	-	10		9		=	All	,		Marginal Cost	

Ans. 89 (b) Refer to the table in answer 64.

TFC

Number of units

 $=\frac{100}{20}=5$ 

Ans. 91 (d)

15

Refer to the table in answer 65.

 $= \frac{ATC}{AQ} = \frac{300 - 210}{20 - 10}$ 

Ans. 92 (c) 200 + 160 = 360

ယ	2	1	0	Hours of Labour
480	360 (200 + 160)	200	:	Total Output
120 (480 - 360)	160	200	:	Marginal

## Ans. 93 (a)

480 - 360 = 120

## Ans. 94 (c)

decrease steadily. marginal product of that variable begins to The law of diminishing returns states that beyond some level of a variable input, the

## <sup>tins.</sup> 95 (b)

when MC = AC, we know that the firms MC intersects AC at its lowest point. So,

> efficiency. average cost curve, and so there a productive must Produce at the minimum point of the

## Ans. 96 (a)

Economic Revenue = ₹ 120000 Economic Cost=₹90000+₹50000=₹140000

Economic loss = ₹140000 - ₹120000 = ₹20000

## Ans. 97 (d)

300 + 240 = 540

		-	-	-
3	2	1	0	Hours of Labour
720	540 (300 + 240)	300		Total Output
180 (720 - 540)	240	300	i	Marginal Product

## Ans. 98 (d)

720 - 540 = 180

## Ans. 99 (b)

average fixed cost curve. Fixed cost is constant, All the cost curves are U- shaped except the but with the every increase in output, average shape of hyperbola. fixed cost decreases. Thus, it assumes the

## Ans. 100 (c)

costs are directly related with the level of with the level of production whereas variable unless additions to machinery are made. machinery remains same for years until and production. Here, the depreciation charged on Fixed costs are the costs which are not related