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## B.Sc. I (Semester – I) (Entrepreneurship) Examination, 2014 ENGLISH (Compulsory) (Old)

Text Book : Realms of Gold : An Anthology for Degree Classes

•	nd Date: Tuesday, 3-6-2 3.00 p.m. to 5.00 p.m.	2014			Ма	x. Marks: 50
	<b>N.B.</b> : i) <b>All</b> que ii) Figure		-	ulsory. cate full marks.		
1. Fil	l in the blanks by choo	sing the cor	rect a	ternative given be	low them.	10
ŕ	The high priest of Ran a) Prashant Lakshma c) Prabhu Lakshman	ana Sastry a Sastry	b) Pa d) No	kshi Lakshmana S ne of the above	astry	
2)	<ul><li>Within the next twenty</li><li>a) half of the world's</li><li>b) all the world's pop</li><li>c) one third of the world</li><li>d) none of the above</li></ul>	population v ulation will b	will be be livir	living in cities ng in cities	5	
3)	Datta had learnt by loa a) correctly			t his customers ne c) timely		f the above
4)	Goldsmith presents that a) lawyer c) doctor	ne	a	ns an amusing cha noolmaster	racter in his	s poem.
5)	Datta was aa) painter c) goldsmith		b) fra d) hu	me-maker nter		
6)	Let me give you	umbre	lla.			
	a) a	b) an		c) the	d) none	
7)	psychiast		tor wh			
	a) the	b) an		c) a	d) none	P.T.O.

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	8)	I wrote with	pencil.			
		a) the b)	an	c) a	d) none	
	9)	The water was very cold		the child still jumpe	d into the pool.	
		a) and b)	but	c) so	d) or	
	10)	Lakshmi sends e-mails _	6	all her friends now a	nd them.	
		a) in b)	to	c) at	d) on	
2.	Wı	rite short answers of the fo	ollowing ( <b>an</b>	y five) :		10
	1)	Describe briefly the local	ity in which ł	Kalam stayed with h	is parents.	
	2)	Mention 'two' qualities of	Kalam's fath	ner.		
	3)	What is the forecast of E	conomic Co	mmission for Africa	?	
	4)	Describe the character a	nd habits of	the frame maker in a	a few words.	
	5)	Describe the schoolmast	er as he app	eared to his student	S.	
	6)	How will the urban explos	sion affect th	e standard of life?		
	7)	What was the intention of	f the custom	er in the story when	he went to Datta?	
3.	A)	<ul><li>Write short answers of th</li><li>1) Why does Colin Legum</li><li>2) What was the disaster reaction to this disaster</li><li>3) Describe the house in</li></ul>	says that the er that struc er?	e urban growth is harr k the photograph?	What was Datta's	6
	B)	Answer the following que 1) Write in brief the them 2) Why are more and mo 3) What did Kalam learn	e of the poe ore people at	m "The Village Scho ttracted to cities ?		4
4.	An	swer <b>any one</b> of the follow	ving :			10
	1)	Describe how would you required and describe the	•		st of the ingredients	
	2)	Nita is on her way to her boss, outside the music exchange a few words appropriate expressions.	school. Th	e two persons gre	et each other and	
5.		rite a letter of an application	on for the po	st of lecturer in the c	college. Give your	10



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### B.Sc. – I (Semester – II) (Entrepreneurship) Examination, 2014 ENGLISH COMPULSORY (Old) Realms of Gold

-	: Thursday, 8-5-2014 a.m. to 1.00 p.m.		Total Marks	3 : 50
1. Fill in the	blanks by choosing the correct a	lter	native given below them :	10
i) Viveka	ananda presented Hinduism as			
a) the	e only true religion	b)	the best of all religions	
c) the	e mother of all religions	d)	the only good religion	
ii)	is the planet neares	st to	the Sun.	
a) Ea	rth	b)	Venus	
c) Me	ercury	d)	Mars	
iii) The so	cientific point of view must come	out	of the	
a) Re	ligion	b)	Library	
c) Lal	boratory	d)	Scriptures	
iv) Ballac	d of the landlord is written by			
a) La	ngston Hughes	b)	Oliver Goldsmith	
c) A.	K. Ramanujan	d)	Miller Goldsmith	
v) The C	hampak tree is as old as			
a) und	cle	b)	brother	
c) sis	ter	d)	mother	
vi) The P	arliament of religion was opened	on		
a) 12	Sept. 1893	b)	11 June 1893	
c) 11	July 1893	d)	11 Sept. 1893	
vii) Rashr	mi history since	mor	ning.	
a) is s	studying	b)	studies	
c) stu	died	d)	will study	P.T.O.

i) Describe the appearance, the personality and the attitudes of Vivekananda

iii) Describe how the landlord respond to his tenant's request to have his

as appeared in Vivekananda; The Great Journey to the West.

ii) What common feature do Venus and Earth share?

iii) Comment on the appropriateness of the title 'Ecology'.

B) Answer the following questions in brief (any two):

i) How does heat energy help the world?

ii) How is science 'ethically neutral'?

6

4

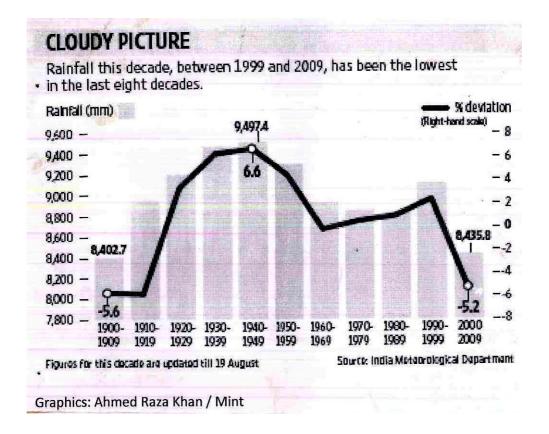
3. A) Write short answers of the following (any two):

place repaired.



#### 4. Answer any one of the following:

1) Read the following graph and transfer the information into paragraph:



Graphics: Ahmed Raza Khan/Mint.

2) Read the following paragraph carefully and make a note on it.

Animals living in modern zoos enjoy several advantages over animals in the wild; however, they must so suffer some disadvantages. One advantage of living in the zoo is that the animals are separated from their natural predators; they are protected and can, therefore, live without risk of being attached. Another advantage is that they are regularly fed a special, well-balanced diet; thus, they do not have to hunt for food or suffer times when food is hard to find. On the other hand, zoo animals face several disadvantages. The most important disadvantage is that since they do not have to hunt for food or face their enemies, some animals became bored, discontented or even nervous. Another disadvantage is that zoo visitors can endanger their lives. Some animals can pick up airborne diseases from humans.

5. Draft out an advertisement of a newly launched mobile phone.

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# B.Sc. (Entrepreneurship) (Semester - VI) Examination, 2014 ENVIRONMENTAL STUDIES (Comp.)

-	d Date : Sunday, 27 1.00 a.m. to 1.00 p			Max. Marks : 50
		) <b>All</b> questions are ) Figures to the <b>rig</b>	e <b>compulsory</b> . <b>ght</b> indicate <b>full</b> ma	arks.
1. Mu	ultiple choice quest	ions :		10
I)	Earth day is celebr	rated on		
	A) 22 <sup>nd</sup> Jan.	B) 22 <sup>nd</sup> Feb.	C) 22 <sup>nd</sup> March	D) 22 <sup>nd</sup> April
II)	'Sahara' is an exa	mple of eco	system.	
	A) Desert	B) Forest	C) Marine	D) Grassland
III)	Marine life is in da	nger due to	pollution.	
	A) Air	B) Water	C) Land	D) Noise
IV)	gas i	s responsible for o	zone depletion.	
	A) CFC	B) CO <sub>2</sub>	C) SO <sub>2</sub>	D) O <sub>2</sub>
V)	In India Wildlife Pr	otection Act passe	ed in	
	A) 1962	B) 1972	C) 1982	D) 1992
VI)	The main source of	of air pollution in In	dia is	
	A) Automobiles		B) Industrialization	n
	C) Forest fire		D) Nuclear explos	sion
VII)			hical area is under	
	A) 60%	B) 61%	C) 70%	D) 71%
VIII)		-	ant for the	
	A) AIDS	B) Malaria	C) Filariasis	D) Elephantiasis
IX)	The primary source			
	A) Wind	B) Sun	C) Hydal energy	D) Tidels
X)	Lion is		-	
	A) Primary	B) Secondary	C) Tertiary	D) Heterotrophs P.T.O.

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2.	W	rite short answers of the following (any four out of six):	8
	a)	Definition of environment	
	b)	Food chain of ecosystem	
	c)	Causes of water pollution	
	d)	Causes of generation of solid waste	
	e)	Biodiversity in Western Ghat	
	f)	Causes of population growth.	
3.	W	rite short notes of the following (any four out of six):	12
	a)	Forest ecosystem	
	b)	Uses of minerals	
	c)	Nuclear Hazards	
	d)	Remedies of water pollution	
	e)	Effects of water pollution	
	f)	Causes of noise pollution.	
4.	a)	What is Forest resources? Describe how forest resources can be conserved.	10
		OR	
	b)	What is pollution? Discuss the causes, effects and preventive measures of air pollution.	
5.	De	efine global warming. Explain the causes and effects of it.	10



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### B.Sc. – I (Sem. – I) (New) (Entrepreneurship) Examination, 2014 ENGLISH (Compulsory) 'On Track' English Skills for Success

<b>9</b>				
Day and Date: Tuesday, 3-6-2014	Total Marks : 50			
Time: 3.00 p.m. to 5.00 p.m.				
Instructions: 1) All questions are con 2) Figures to the right in				
1. Rewrite the following sentences by choo	sing the correct alternative:			
1) What did the policeman on the beat of	constantly do?			
a) twirl his stick	b) interrogate people on his beat			
c) smoke a cigar	d) unlock doors			
2) The writer and Miss. Krishna				
a) were at school together	b) met at an exhibition			
c) met at a tea party	d) were neighbours			
3) When the writer invited her to stay wi	When the writer invited her to stay with her for a while, Miss. Krishna agreed			
a) reluctantly	b) shyly			
c) readily	d) with little enthusiasm			
4) The word 'intelligence' is derived from	m the Latin word			
a) intellegere	b) intellectual			
c) intellect	d) none of these			
5) Where are the bangle sellers carrying	g their wares ?			
a) to a married woman's	b) to the house of a maiden woman			
c) to a temple fair	d) to the streets			
6) An Irish Airman Foresees His Death	is written by			
a) W. B. Yeats	b) W. B. Keats			
c) John Milton	d) Sarojini Naidu			
	1 .1.0.			



	7)	Mina is fond	_reading.	
		a) of	b) to	
		c) on	d) by	
	8)	We flew over	Pacific Ocean.	
		a) the	b) a	
		c) an	d) no article	
	9)	Let me give you	umbrella.	
		a) a	b) the	
		c) an	d) no article	
	10)	There is a mob on the road.	The underlined word is noun.	
		a) common	b) mass	
		c) proper	d) collective	
2.	An	swer any five of the following	g questions :	10
	1)	What was the nickname for E	Bob that the plain-clothes Policeman used?	
	2)	What is the narrator's initial of	opinion of Miss. Krishna ?	
	3)	Why can computers not 'thin	k' in the same way as human beings?	
	4)	Which colours of bangles are	e suitable for a maiden's wrists?	
	5)	How does the speaker imagi	ne he will die ?	
	6)	What are the bangles 'token'	of?	
3.	A)	Write short answers of any t	wo of the following:	6
		<ol> <li>What kind of person was suitable evidence from th</li> </ol>	s Jimmy Wells? Describe his character with e story.	
		,	covery made by Miss. Krishna's sister and the does this reveal Miss. Krishna's character?	
		3) What are the myths regar	ding the intelligence of the computers?	
	B)	Answer <b>any two</b> of the follow	<b>0</b> 1	4
		,	es of bangles which the bangle sellers carry.	
		•	s attitude towards the war he is fighting in ? The same is a substitution of the same is a strictly same in the same in the same in the same is a strictly same in the	
		o, Trow dood the poot desert	so the fathlat who who is now initiate agod:	



4. Answer any one of the following questions:

- 10
- 1) Write an essay on the impact of mobile phones on the lives of young people in the present day.
- 2) Write paragraphs of five or six sentences on each of the following:
  - a) solar energy
  - b) my family.
- 5. Read the following passage and make notes of it. Use an appropriate title for your notes.

10

There are different forms of environmental pollution. Air pollution is caused by the burning of coal and oil. It can damage the earth's vegetation and cause respiratory problems in humans. A second type of pollution is noise pollution. It is the result of the noise of aircraft and heavy traffic. Further, loud music is also a cause of noise pollution, which has been seen to affect people's hearing and give them severe headaches and high blood pressure. Another source of pollution is radioactivity, which occurs when there is a leak from a nuclear power station. Radioactivity is a deadly pollutant, which kills and causes irreparable harm to those exposed to it. Land and water pollution is caused by the careless disposal of huge quantities of rubbish, sewage and chemical wastes. Pollution of rivers and seas kills fishes and other marine life and also becomes the cause of water – borne diseases. Land pollution, on the otherhand, Poisons the soil, making the food grown in it unfit for consumption.



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### B.Sc. – I (Sem. – I) Examination, 2014 ENTREPRENEURSHIP (Paper – I) (New) Entrepreneurship and the World of Business

Day and Date : Wednesday, 4-6-2014	Max. Marks: 50	
Time: 3.00 p.m. to 5.00 p.m.		
1. Multiple Choice Questions.		10
1) Ethics is branch of		
a) Social values	b) Philosophy	
c) Psychology	d) None of these	
2) Business mean		
a) Trading activity	b) Managerial activity	
c) Economic activity	d) All the above	
3) Role of entrepreneur is		
a) Idea generation		
b) Systematic innovation		
c) Implementation of mechanic	al skill	
d) All the above		
4) Need theory of motivation propo	sed by	
a) A. Maslow	b) Herzberg	
c) Richard Cantilon	d) Adam Smith	
5) Entrepreneurship means		
a) Risk bearing	b) Innovation	
c) Organisation	d) All the above	

10

a) Social b) Economic

c) Cultural d) None of these

8) Behavioural skill denotes

a) Motivation b) Team working

c) Self confidence d) All the above

9) Entrepreneurial competencies delt with

a) Self assessment b) Competency recognition

c) Motivation d) All the above

10) \_\_\_\_\_ runs as per Company Act 1956.

a) Co-operative Society b) Partnership Firm

d) None of these c) Company

2. Answer any five of the following:

1) Define women entrepreneurship.

2) Describe partnership as form of business.

3) Explain objective of business.

4) Discuss difference between Private and Public Ltd. Company.

5) Define the term business ethics.

6) Explain the sole proprietorship form of business.



3.	A) Answer any two of the following:	6
	1) Comment on scope of entrepreneurship in India.	
	2) What are the benefits of business ethics?	
	<ol> <li>Explain various support and financial assistance to women entrepreneurs in India.</li> </ol>	
	B) Write note on factors responsible for emergence of entrepreneurship.	4
4.	Answer any two of the following:	10
	1) Difference between entrepreneur and entrepreneurship.	
	2) What are the characteristics of business?	
	3) Write note on multinational and transnational company.	
5.	Answer any two of the following:	10
	1) What is motivation and explain the factors that motivate entrepreneurs?	
	2) Define entrepreneurship, explain in detail various types of entrepreneur.	
	3) Explain in brief characteristic of entrepreneurs.	



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# B.Sc. – I (Sem. – I) (Entrepreneurship) Examination, 2014 INDUSTRIAL CHEMISTRY (New) Fundamental of Organic Chemistry (Paper – II)

Day and Date: Saturday, 7-6-2014	Max.Marks : 50
Time: 3.00 p.m. to 5.00 p.m.	
Instructions: 1) All questions are con	npulsory.
2) Figures to the <b>right</b> in	ndicate <b>full</b> marks.
Rewrite the following sentences by sele alternatives :	cting correct answer from given
1) When acetylene is passed over red	hot tube product is formed.
a) Cyclohexane	b) Ethane
c) n-hexane	d) Benzene
2) In kolbe synthesis to obtain butane	is electrolysed.
a) Sodium acetate	b) Sodium propionate
c) Potassium acetate	d) Sodium butanoate
3) Carbon and hydrogen is estimated b	by method.
a) Carius	b) Kjeldahl's
c) Liebig's	d) None of these
4) $1, 3$ – butadiene is the example of _	diene.
a) Conjugated	b) Isolated
c) Cumulated	d) Alka
5) In nitration of benzene	is used as electrophile.
a) $NO_2^{\oplus}$	b) NO <sub>2</sub> <sup>©</sup>
c) HNO <sub>3</sub>	d) NO $_3^{\oplus}$
6) method is used to dete	rmine molecular weight.
a) Carius	b) Platinichloride
c) Liebig's	d) Kjeldahl's



	7)	Paludrin is used as	agent.		
		a) Antibacterial	b)	Antipyrotic	
		c) Antihistamic	d)	Antimaterial	
	8)	is the example of cl	hromop	hore.	
		a) - N = N -	b)	-NHCH <sub>3</sub>	
		c) -OH	d)	-SO <sub>3</sub> H	
	9)	Olefines on hydrogenation forms	S		
		a) Alkene	b)	Alkynes	
		c) Alkane	d)	Cycloalkane	
	10)	In Kjeldahl's method	gas i	s evolved.	
		a) NH <sub>3</sub>	b)	CO <sub>2</sub>	
		c) H <sub>2</sub>	d)	CO	
2.	Ans	swer any five of the following:			10
	1)	State and explain Huckel's rule.			
	2)	How will you prepare alkane by d	lecarbo	xylation of carboxylic acid?	
	3)	Define molecular formula and em	pirical f	formula.	
	4)	Write in brief oxidation of alkynes	S.		
	5)	What are dienes ? Give its gener	al form	ula.	
	6)	What are the qualities of ideal dru	ug ?		
3	Δ)	Answer <b>any two</b> of the following			6
Ο.		-		table example	·
		1) Explain Diel's-Alder reaction v		·	
		<ol> <li>Explain Internal Wurtz reaction</li> </ol>	•	·	
	,		-	when treated in carius method gave ate percentage of bromine in organic	
	B)	Explain Internal Wurtz reaction fo	or prepa	aration of cycloalkane.	4



4.	Answer any	y two of the following:

- 1) Write any two methods for the preparation of alkanes.
- 2) What is meant by nitration? Give its mechanism.
- 3) With the help of Kjeldahl's method how will you detect nitrogen in organic compound.

#### 5. Answer any two of the following:

10

- 1) Explain hydroboration reaction of alkene.
- 2) How will you determine empirical formula of organic compound?
- 3) Explain Witt's theory for colour and chemical constitution.

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# B.Sc. I (Semester – II) (Entrepreneurship)Examination, 2014 Industrial Microbiology Paper – III (New) ENTREPRENEURSHIP

	ENEURSHIP of Microbiology)
Day and Date : Thursday, 15-5-2014 Time : 11.00 a.m. to 10.00 p.m.	Max. Marks : 50
•	re <b>compulsory</b> . pelled diagram <b>wherever</b> necessary. r <b>ight</b> indicates <b>full</b> marks.
1. Rewrite the following sentences by sele	cting correct alternatives given below: 10
<ul> <li>i) Indicator plate technique is used producing organisms</li> </ul>	for primary screening of
a) Antibiotic	b) Amylase
c) Organic acids and amines	d) vitamin
ii) Major component of molasses is	
a) Sugar	b) Protein
c) Vitamin	d) Lipid
iii) The raw material having media.	is rejected for preparation of fermentation
a) Less C and N sources	b) Less foaming
c) Buffering capacity	d) More C and N sources
iv) From of fermentor satime.	amples are removed and analysed time to
a) Retension tube	b) Bottom drain
c) Sampling point	d) Head space

v)	is used as precursor fo	r vitamin B <sub>12</sub> production.	
	a) Chloride	b) Cyanide	
	c) Phenyl acetic acid	d) Antranilic acid	
vi)	Microbial inhibition spectrum of antitechnique.	ibiotic is determined by	
	a) Standard plate count	b) Crowded plate	
	c) Replica plate	d) Giant colony	
vii)	material for construc	ction of fermentor in lactic acid and beer	
	production is rejected.		
	a) Copper	b) Wooden	
	c) Iron	d) Stainless steel	
viii)	In fermentation process agitation of the	ne medium is done by using	
	a) Spargers	b) Baffles	
	c) Impellars	d) Bottom drain	
ix)	is used as growth fa	ctor in medium used for glutamic acid	
	production.		
	a) Corn steep liquor	b) Suitite waste liquor	
	c) Biotin	d) Calcium pantothenate	
x)	is crude organic antifo	oam agent.	
	a) Silicon compound	b) Vegifat – X	
	c) Lard oil	d) Phenyl acetic acid	
2. Ar	nswer <b>any five</b> of the following:		10
i)	Write applications of fermentor.		
ii)	Give the examples of antifoam agents	S.	
iii)	What is the meaning of serial subcultu	ure ?	
iv)	Define the screening.		
v)	Define the industrial microbiology.		
vi)	Write the significance of the buffers in	fermentation process.	



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### B.Sc. (Semester – IV) Examination, 2014 ENTREPRENEURSHIP (Paper – VII) Production and Material Management

•	d Date : Thursday, 24-4-2014 11.00 a.m. to 1.00 p.m.	Max. Marks :	50
Multip	le choice questions:		10
1. 1)	Production planning and control is easy	in production.	
	a) Job-shop	b) Batch	
	c) Mass	d) Continuous	
2)	is the process of verify services meet or exceed customers ex		
	a) TQM	b) Quality Certification System	
	c) Product assurance	d) None	
3)	There is no customer participation in		
	a) Market Research	b) Production Management	
	c) Portfolio	d) Operation Management	
4)	maintenance consists equipments.	of period inspection of plant and	
	a) Corrective	b) Predictive	
	c) Preventive	d) None	
5)	is not a mandatory system is very important customer regulation		
	a) Quality Management	b) TQM	
	c) ISO 9000	d) Product Assurance	

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6)	are used to stim	nulate den	nand during slack periods.	
	a) Free samples	b)	Coupons	
	c) Money off price incentives	d)	None	
7)	Machine loading is carried out in smooth workflow.	conjuncti	on withto ensure	
	a) Routing	b)	Scheduling	
	c) Dispatching	d)	Expediting	
8)	TQM stands for			
	a) Total Quality Management	b)	Total quantity Management	
	c) Total quantum measurement	d)	None	
9)	The lead time is the time			
	a) To place an order			
	b) Time required to discuss with	supplier		
	c) Gap between placement of a	n order ar	nd the time of actual supply	
	d) None			
10)		-	odel for quality assurance in design/	
	development, production, installa	ation and	servicing.	
	a) ISO 9001	b)	ISO 9002	
	c) ISO 9003	d)	ISO 9004	
An	swer (any 5) from the following:			10
i)	Define Plant Layout.			
ii)	Define Product Management			
iii)	What is Combination Layout?			
iv)	What is Material Management?			
v)	What is Maintenance?			
vi)	What is Inventory Control?			



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# B.Sc. (Entrepreneurship) (Semester – IV) Examination, 2014 COMPUTER SCIENCE (Paper – VIII)

•	d Date : Friday, 25-4-2014 11.00 a.m. to 1.00 p.m.		Max. Marks : 50
	Instructions: 1) All questions are co 2) Figures to the right	-	
1. Mu	ultiple choice questions :		10
1)	operating system is us	ed in second generation.	
	a) Batch operating system	b) Time sharing	
	c) Multiprogramming	d) Multitasking	
2)	Secondary storage of a computer syst	tem is also known as	
	a) Main memory	b) Volatile memory	
	c) a) and b)	d) Auxiliary memory	
3)	1 MB is about bytes.		
	a) 10 <sup>3</sup> bytes	b) 10 <sup>6</sup> bytes	
	c) 10 <sup>4</sup> bytes	d) 10 <sup>9</sup> bytes	
4)	The time required to spin the specific called	ed sector under the read/	write head is
	a) Latency	b) Rotational delay time	•
	c) a) and b)	d) Seek time	
5)	secondary device use	es laser beam technology	y to read and
	write data.		
	a) Optical disk	b) Floppy disk	
	c) Hard disk	d) None	

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6)	A language that allows use of letters called	s and symbols instead of numbers is	
	a) Assembly language	b) Symbolic language	
	c) Machine language	d) a) and b)	
7)	is a translator progra into machine language statement by s	m that translates high level language statement.	
	a) Assembler	b) Compiler	
	c) Interpreter	d) None	
8)	is an integrated set of the resources and operations of compa	f instructions or programs that controls outer system.	
	a) System	b) Operating system	
	c) Memory	d) None	
9)	FTP stands for		
,	a) File Transmission Process		
	b) File Transfer Protocol		
	c) File Transfer Procedure		
	d) None		
10)	URL stands for		
-,	a) Uniform Resource Locator		
	b) Universal Resource Locator		
	c) Uniform Resource Location		
	d) None		
An	swer <b>any five</b> of the following:		10
1)	Define computer sysc and enlist its ty	pes.	
2)	Note on expansion slot.		
3)	Give function of control unit.		
4)	Define compiler and interpreter.		
5)	Define system software and give exar	nples of system software.	
6)	Define internet.		

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3.	A)	Answer any two of the following	g :	6
		1) Explain any two generations	of computer system.	
		2) Explain characteristics of co	mputer system.	
		3) Note on Telnet Service.		
	B)	Explain types of memory chips.		4
4.	Ar	nswer <b>any two</b> of the following:		10
	1)	What is operating system? Exp	plain functions of operating system.	
	2)	Note on FTP.		
	3)	Explain serial and parallel port.		
5.	Ar	nswer <b>any two</b> of the following:		10
	1)	Explain block diagram of compu	uter and explain each block in detail.	
	2)	Explain magnetic disk and its ty	rpes.	
	3)	Give in detail uses of internet.		



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# B.Sc. (Part – II) (Semester – IV) Entrepreneurship Examination, 2014 INDUSTRIAL CHEMISTRY

	INDUSTRIAL ( : Techniques	CHEMISTRY in Industrial Chemist	ry	
Day and Date: Saturday, 26 Time: 11.00 a.m. to 1.00 p.r			Max. Marks: 50	)
,	gures to the <b>right</b>	ompulsory. t indicate full marks. elled diagrams wherever n	ecessary.	
1. Choose the most correct	ct alternative from	n among those given belov	v : 10	)
<ol> <li>Spectroscopic method</li> <li>Useful for the defendence</li> <li>Rapid methods for the defendence</li> <li>Sensitive, accurate</li> <li>All above</li> </ol>	termination of unl or analysis			
2)is a	a method of eleme	ental analysis.		
a) AAS	b)	Chromatography		
c) Electrophoresis	d)	None of these		
3) In flame photometer	es, the detectors	used are	_	
a) Thermopiles	b)	Photomultipliers		
c) Tungsten tubes	d)	Colorimeteres		
<ol> <li>X-ray diffraction ted analysis.</li> </ol>	chnique uses	law for crys	stallographic	
a) Lambert's	b)	Beer's		
c) Bragg's	d)	Partition		
5)is the of proteins and othe		extran used as popular gel f	or separation	
a) Sephadex	b)	Quartz		
c) Agarose	d)	Starch		

2.



6)	Gel permeation chromatography ca a) Paper	an be performed by chromatography. b) Gas					
	c) Ion-exchange	d) Column or thin layer					
7)	method is used for based on electrophoresis and read a) Gel filtration chromatography b) Immunoelectrophoresis c) SDS-PAGE d) AAS	or separation and characterisation of proteins action with antibodies.					
8)	To determine crystal structure of ra) Chromatography b) SDS-PAGE c) Photometry d) X-ray diffraction	naterial technique is used.					
9)	In SDS-PAGEis of proteins. a) Polyacrylamide c) CSDS	used for determination of molecular weights b) Agarose d) Starch					
10)	The sensitivity in AAS is generally for 1% absorbance.  a) µg/ml  c) g/ml	b) mg/ml d) g/dm <sup>3</sup>					
An	answer <b>any five</b> of the following :						
i)	Explain the term absorption spectroscopy.						
ii)	What are nebulizers?						
iii)	State applications of X-ray diffraction methods to complexes.						
iv)	Explain the term chromatography.						
v)	Write applications of gel chromatography.						
vi)	Write the types of electrophoresis.						



3.	) Answer any two of the following :		
	i) Explain the function of photomultiplier tube used in AAS.		
	ii) What is elastic scattering?		
	iii) Why should electrophoresis be done in solutions of low salt concentrations	?	
	B) Explain the process of SDS-PAGE.	4	
4.	Answer any two of the following:	10	
	i) Give a brief account of mirrors and slits used in flame photometry.		
	ii) Discuss the technique of gel filtration chromatography.		
	iii) Explain the process of high resolution X-ray diffraction method.		
5.	Answer any two of the following:	10	
	<ul> <li>i) Explain the functions of the components involved in atomic absorption spectrophotometer.</li> </ul>		
	ii) Write a note on immunoelectrophoresis.		
	iii) Explain the process of X-ray diffraction used in crystallographic analysis.		



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# B.Sc. – II (Sem. – IV) (Entrepreneurship) Examination, 2014 INDUSTRIAL CHEMISTRY

Pa	per – VIII : Bic	INDUSTRIA sensors and				nzyme Purification
-	d Date : Monday, 2 11.00 a.m. to 1.00					Max. Marks : 50
	,	<b>All</b> questions are Figures to the <b>ri</b>			II mai	rks.
1. Ch	oose the correct a	alternative and re	writ	e the senter	nce a	gain. 10
I)	elect technique and ele		con	nbination of	chror	matographic
	a) Rotating gel	b) Field gel	c)	PAGE	d)	Two dimensional
II) Speed of centrifuge is measured in						
	a) RPM	b) RCF	c)	MS	d)	MP
III)	In biosensor, sen	nsor is				
	a) enzyme					
	b) antibodies					
	c) antigen					
	d) physicochemic	ical transducer				
IV)	dev modification of D		que	encing metho	od ba	sed on chemical
	a) Walter Gilber	and Allan Maxar	n			
	b) Sanger					
	c) Roger					
	d) Franklin					
V)	Sedimentation co	oefficient is meas	ure	d in	u	ınit.
	a) Swedberg		b)	Distribution	1	
	c) Partition		d)	Bench		



VI)	) Cellulose acetate was used as a support medium for electrophoresis by						
	a) Kohn	b) Lammli	c) Weinberg	d) Raymond			
VII)	The separation of subcellular components which have similar buoyant density with different particle size is done by centrifugation.						
	a) Rate zonal	b) Isopycnic	c) Analytical	d) Super			
VIII)	stain is used in SDS-PAGE.						
	a) Silver stain	b) MB	c) CV	d) BB			
IX)	X) Historically was the first form of electrophoresis that found application on a large scale.						
	a) Gradient electrophoresis						
	b) Immuno electrophoresis						
	c) Rotating gel electrophoresis						
	d) Moving boundary electrophoresis						
X)	te	•	or the determina	tion of molecular weight of			
	a) SDS-PAGE		b) TWO-θ-PAGE				
	c) PAGE		d) SDS				
2. Ans	swer <b>any five</b> of t	he following :			10		
1)	Define Biosenso	rs.					
2)	P) Define sedimentation.						
3)	PAGE.						
4)	e) Electrophoresis.						
5)	5) Centrifugation.						
6)	Enzyme unit.						



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### B.Sc. – II (Entrepreneurship) (Semester – IV) Examination, 2014 MICROBIOLOGY AND BIOTECHNOLOGY (Paper – VII) Molecular Biology

		Molecular	Biology		
-	d Date : Tuesday, 29- 11.00 a.m. to 1.00 p.m				Max. Marks : 50
	write the sentences bernatives.	y selecting the c	orrect answer fro	m the giv	en
1)	Semiconservative DI	NA replication wa	ıs first demonstra	ted by	
	a) Taylor	b)	Watson and Crid	ck	
	c) Meselson	d)	Khorana		
2)	During DNA replication	on the strands se	parated by		
	a) DNA polymerase	b)	Gyrase		
	c) DNA helicase	d)	DNA primase		
3)	During DNA replication		ng strand is appli	ied to the	one which
	a) $5'-3'$ direction co	ontinuously			
	b) $3'-5'$ direction co	ontinuously			
	c) $5'-3'$ direction d	iscontinuously			
	d) $3'-5'$ direction d	iscontinuously			
4)	Genetic code is a sec	quence of nitroge	nous bases on _		
	a) mRNA b)	tRNA c)	rRNA	d) DNA	
5)	The terminator codon	are			
	a) UAA, UAG, UGA	b)	AUG, UAG, UG	Д	
	c) UAC, AUG, UAG	d)	AUG, ACG, GAG	G	
6)	A codon consist of he	ow many nitroge	n bases in it		
	a) 1 b)	2 c)	3	d) 4	
7)	Transcription is the tr	ansfer of genetic	information from	ı	
	a) Chromosome to o	ytoplasm b)	tRNA to mRNA		
	c) DNA to mRNA	d)	mRNA to rRNA		P.T.O.
					P. I.U.



	8)	Tra	anscriptic	on take	s pl	ace in						
		a)	Matrix	I	b) I	Nucleus	c)	Cytosol	d)	Cytopl	asm	
	9)		iring tran led	-	on t	he DNA s	site at w	hich RN	A polymer	ase bind	ds is	
		a)	Promote	er l	b) I	Regulato	r c)	Recepto	r d)	Enhan	icer	
	10)	Th	e gene n	ot expr	ess	sing any p	rotein i	s known a	as			
		-	Epistation	_			,	Hyposta <sup>®</sup>	•			
		c)	Pseudog	gene			d)	None of	these			
2.	Ans	swe	er <b>any fiv</b>	e of the	e fo	llowing:						10
	a)	Ту	pes of Ri	NA pol	yme	erases ar	nd its fu	nctions.				
	•				_	_	tion in e	ukaryote	S.			
	•		ocess of									
			operties o		etic	code.						
	,		enuation									
	f)	He	estriction	maps.								
3.	A)		-			e followin	ıg:					6
		•	Significa									
		-	Overlap r-DNA p									
	B)	-	rite the ar									4
	٥,					okaryotes	<b>3</b> .					•
4	Δno	SWE	er <b>any tw</b>	of fo	llow.	ina :						10
••			_			_	f DNA r	epair sys	tem.			.0
	•					pair med						
	•					ucture of						
5.	Ans	SWE	er <b>any tw</b>	o of fo	llow	/ing:						10
			axum and			_						
	,					cteriopha	iges.					
						ugation p						

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### B.Sc. – II (Semester – IV) (Entrepreneurship) Examination, 2014 MICROBIOLOGY AND BIOTECHNOLOGY Paper – VIII: Food and Dairy Technology

Day and Date : Wednesday, 30-4-2014 Time : 11.00 a.m. to 1.00 p.m.			Max. Marks : 50
2)	<b>All</b> questions are <b>compu</b> le Figures to the <b>right</b> indice Draw <b>neat</b> labelled diagra	ates <b>full</b> marks.	ssary.
1. Rewrite the sentence	es by selecting correct and	swers from given alte	ernative: 10
i) Bacteria growing	at low temperature are cal	lled	
a) Thermophilic	b)	Mesophilic	
c) Thermoduric	d)	Psychrophilic	
ii)	is an example of peris	hable food.	
a) Meat	b)	Sugar	
c) Potato	d)	Onion	
iii)	sugar is present in milk.		
a) Glucose	b)	Sucrose	
c) Latose	d)	Fructose	
iv)	is an example of food pois	oning.	

v) \_\_\_\_\_ test is used for determination of efficiency of pasteurisation

b) Botulism

d) Amoebiasis

b) Phosphatase

c) Soft d) Liquid

a) Salmonellosis

c) Shigellosis

of milk.

a) MBRT

### **SLR-E-30**



	vii)	Canning process is used for food			
		a) Processing	b)	Harvesting	
		c) Preservation	d)	Spoilage	
	viii)	Case in is main protein present in			
		a) Fish	b)	Egg	
		c) Meat	d)	Milk	
	ix)	Butter is made from			
		a) Cream	b)	Carbohydrates	
		c) Proteins	d)	Vitamins	
	x)	Candling is used for defection of		spoilage.	
		a) Fish	b)	Meat	
		c) Fruit	d)	Egg	
2.	<ul><li>i)</li><li>ii)</li><li>iii)</li><li>iv)</li><li>v)</li></ul>	Define Pasteurisation. What is fermentation? Define food spoilage. What is cheese? Define preservatives. What is food infection?			10
3.		Write <b>any two</b> of following:  i) Composition of milk  ii) Composition of icecream  iii) MBRT Test.	otuu	<b>70</b>	6
	D)	Describe the process of cheese manufa	Clu	e.	4
4.	i) ii)	scribe <b>any two</b> of following: Preservation of food by high temperature Pasteurisation process of milk. Production and uses of cream.	e.		10
5.	i) ii)	scribe <b>any two</b> of the following: Fermented milk Food preservation by chemicals. Preservation of meat and fish.			10



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## B.Sc. (Part – III) (Semester – VI) (Entrepreneurship) Examination, 2014

	Count	) ENGLISH down – Engli			ucc	ess
	d Date : Monday, 21 11.00 a.m. to 1.00 p					Max. Marks : 50
ı	Instructions: 1) A 2) F	<b>II</b> questions are igures to the <b>rig</b>		-	arks.	
1. Re	write the following se	ntences choosing	g the	e correct alterna	ative	given below them: 10
1)	Self-esteem is ned	essary when we	are	e		-
	a) alone		b)	among socie	ty	
	c) among membe	ers of family	d)	none		
2)	relationships with	helps you better others.	tha	in any other to	esta	blish good
	a) Self-esteem		-	Prejudice		
	c) Envy		d)	Happiness		
3)	A scientist cannot	decide what is $\_$		6	acco	rding to Haldane.
	a) Good and bad		b)	Day and nigh	t	
	c) Black and white	9	d)	Right and wro	ong	
4)	Rahim Khan's wife years.	e tolerated his to	rtur	es and beating	gs fo	ſ
	a) Twenty		b)	Twenty three		
	c) Thirty		d)	Thirty two		
5)	The refugee mothe combing his hair lo			smile o	n hei	lips when she was
	a) Sad	b) Pleasant	c)	Mocking	d)	Ghost
6)	William Wordswor	th is the		poet.		
	a) Classical	b) Rustic	c)	Nature	d)	Urban



	7)	The quarrel	so muc	h that I lost th	e peace of my mind.	
		a) Ruffled by features	b)	Broke me do	own	
		c) Drew the line	d)	Stumbled blo	ock	
	8)	I wanted to be a collector but no	ow		_about it.	
		a) Have no wish	b)	Have second	d thoughts	
		c) Have a doubt	d)	None		
	9)	Reading is her	and b	outter.		
		a) Wheat b) Bread	c)	Milk	d) Cake	
	10)	T.C.S. isCor	mpany.			
		a) Complicated	b)	Many nation	S	
		c) Multi-national	d)	Regional		
2.	An	swer <b>any five</b> of the following qu	uestions	s briefly :		10
	1)	Write a note on six pillars of sel	f-estee	m.		
	2)	What are the advantages of self	f-esteer	n ?		
	3)	What is scientific point of view '	?			
	4)	What is the difference between	scientis	st and judge ?		
	5)	What is the end of the story 'Sp	arrows'	?		
	6)	What made Rahim Khan ill?				
3.	A)	Answer <b>any two</b> of the following	a auesti	ons briefly :		6
	,	1) How is the condition of sick (	-	•		
		2) What is the central theme of	the poe	em 'Refugee l	Mother and Child'?	
		3) Describe in brief the daffodil	s effect	on poet's mi	nd.	
	B)	Answer any two of the following	g :			4
		1) What do you do when work p	oressure	e suddenly in	creases?	
		2) How you will adapt any critic	cal situa	ation?		
		3) State the ways by which you	ı manag	ge your time b	oetter.	



4. A) Write a description of a person who sat opposite you on a train journey. Remember to use the words to convey character, thoughts, mood, attitude of the person.

10

OR

- B) Write a description of a famous T.V. Actor you met at the function. Remember to use the words to convey the character, thoughts, mood, attitude of the actor seemed to be.
- 5. Read the passage below and write one-third summary of it.

10

Mr. Spectator is a learned person exposed to foreign culture and ways of thinking because of his travels abroad. His mind stored with wit, humour and knowledge of these civilizations and their ways, was a store house of ideas. Added to this, wisdom was his intimate acquaintance with ancient and modern books in different languages. His observing eye makes him compare and contrast different cultures and civilizations for their manners, mores, customs, traditions and peculiarities.

In the words of Addison, the spectator had made himself a speculative statesman, soldier, merchant or artisan without ever meddling with any practical part in life. His classical ideal suggests the value of ancient wisdom for self improvement. The middle class culture and character gets itself exposed and defined in authentic way in the essays of Addison.



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### B.Sc. – III (Semester – VI) (Entrepreneurship) Examination, 2014 ENTREPRENEURSHIP (Paper – X) International Business

•	d Date : Thursday, 10-4-2014 I 1.00 a.m. to 1.00 p.m.		Max. Marks : 50
1. Ch	oose the correct answer from giver	n alternative :	10
i)	FDI stands for		
	a) Fast Development India		
	b) Foreign Direct Investment		
	c) Foreign Development India		
	d) Fast Direct Investment		
ii)	Capitalistic communistic and mixe	ed are the type of	
	a) Economic System	b) Social System	
	c) Cultural Attitudes	d) Political System	
iii)	The simplest way to enter a foreig	n market is through	
	a) Direct Investment	b) Joint Venturing	
	c) Contract manufacturing	d) Exporting	
iv)	ISO stands for		
	a) International State Organizatio	n	
	b) International Swiss Organization	on	
	c) International Select Organization	on	
	d) None of the above		
v)	MNC stands for		
	a) Multinational Company	b) Multinational Corporation	on
	c) Multinational Culture	d) Mutual North Committe	ee



vi)	Which is not an Indian multinationa	al company?					
	a) Asian Paints	b) Hindustan Unilever					
	c) Piramal	d) Wipro					
vii)	The first phase of globalization started around 1870 and ended with						
	a) The World War I	b) The World War II					
	c) The Establishment of GATT	d) In 1913 when GDP was High					
viii)	Ultimatelywas replace	ced by the on 1 <sup>st</sup> Jan. 1995.					
	a) GATS, WTO	b) WTO, GATT					
	c) GATT, WTO	d) IMF, GATT					
ix)	Globalization refers to	_					
	a) Lower Income Worldwide						
	b) Less Foreign Trade						
	c) Global Warming						
	d) A more Integrated and Interdepe	endent World					
x)	When two companies join hands to	manufacture new products it is called as					
	a) Merger	b) Joint Venture					
	c) Acquisition	d) Production agreement					
2. An	swer <b>any five</b> of the following:		10				
i)	What is mean by business?						
ii)	Long form of GATT.						
iii)	What is mean by management?						
iv)	What do you mean by franching?						
v)	Long Form of FI/CO.						
vi)	What do you mean by contracts?						
,	,						



3.	A) Answer any two of the following:	6
	i) Concept of E-commerce	
	ii) Define Union.	
	iii) Define International Business.	
	B) Describe in short sales and distribution.	4
4.	Answer any two of the following:	10
	i) Explain the benefits of the acquisition.	
	ii) Write down International business approaches.	
	iii) What are the role of transportation in global distribution?	
5.	Answer any two of the following:	10
	i) Explain the advantages of Globalization.	
	ii) Difference between Traditional commerce and E-commerce.	
	iii) What are the difference between Domestic business and International Business?	

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## B.Sc. – III (Semester – VI) (Entrepreneurship) Examination, 2014 ENTREPRENEURSHIP (Paper – X) Organizational Behavior

-	d Date : Friday, 11.00 a.m. to 1.			Max. Marks : 50	
1. Ch	oose the correc	ct answer from gi	ven alternative.	10	
i)	satisfied.	_ need improves	the confidence	level of an employee when	
	a) Social	b) Safety	c) Basic	d) Esteem	
ii)	Every individua	al is	by their perso	nality.	
	a) Intellectual		b) Specific		
	c) Unique		d) Systemation		
iii)	Scope of OB d	loes not include.			
	a) Leadership		b) Perception		
	c) Job design		d) Technolog	у	
iv)	"Might is Right	t" is the motto of			
	a) Autocratic r	model	b) Custodial r	nodel	
	c) Supportive	model	d) Feasible m	odel	
v)	What is the ke	y word in unders	tanding organizat	tion structure ?	
	a) Control	b) Change	c) Process	d) Delegation	
vi)	E-Commerce	orovide	customer se	ervice.	
	a) Worse	b) Better	c) Same	d) All of above	
vii)		_ does not require	ed printed invoice		
	a) EDI			d) All of above	
viii)	fo	•	set goals for peop	•	
,	a) Equity theo		b) Expectance		
	c) Goal attain		d) Goal setting theory		

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c) Cheque payment c x) Online trading and auctions are calle a) E-Market b	o) Cash payment I) PAN Card
<ul> <li>2. Answer any five of the following: <ol> <li>i) Define organization.</li> <li>ii) Define motivation.</li> <li>iii) What do you mean by E-Commerce iv) Long form of SSL.</li> <li>v) What are security threats in E-Com vi) Define political behavior.</li> </ol> </li> </ul>	
<ul> <li>3. A) Answer any two of the following:</li> <li>i) Write down importance of motiva</li> <li>ii) Write down source of stress.</li> <li>iii) Benefit of EDI.</li> <li>B) State advantage of E-Commerce.</li> </ul>	tion.
<ul> <li>4. Answer any two of the following:</li> <li>i) Explain nature and scope of OB.</li> <li>ii) Explain the types of personality.</li> <li>iii) Difference between traditional common of the following:</li> </ul>	nerce and E-Commerce.
<ul><li>5. Answer any two of the following :</li><li>i) Explain the types of E-Commerce.</li><li>ii) Explain the types of political activity</li><li>iii) Write down features of Job satisfac</li></ul>	

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## B.Sc. – III (Semester – VI) Entrepreneurship Examination, 2014 INDUSTRIAL CHEMISTRY Techniques in Industrial Chemistry (Paper – X)

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-		nd Date : Saturday, 12 11.00 a.m. to 1.00 p.r					Max. Marks	: 50
	Ir	n <b>structions :</b> 1) <b>All</b> qu 2) Draw		•	•	vhe	rever necessary.	
1.		elect the most correct ntence :	alternative from	thos	e given below	and	I rewrite the	10
	1)	In paper chromatogra	aphy, cellulose fil	bres	act as			
		a) Stationary phase		b)	Mobile phase			
		c) Support		d)	Detecting age	ent		
	2)	The reactions catalyz	zed by		are biocata	lytic	reactions.	
		a) Alumina						
	3)	In chromium plating _		is us	ed as anode.			
		a) Cadmium	b) Silver	c)	Zinc	d)	Lead	
	4)	is th	ne process which	n give	es the coating	of th	ne oxide film on	
		the surface of AI and	d its alloys.					
		a) Anodising		b)	Electrolysis			
		c) Electrophoresis		d)	All of these			
	5)	is a	an example of typ	e fir	e A.			
		a) Wood		b)	Electrical sou	rce		
		c) Oils		d)	None of these	)		
	6)	In column chromatog	graphy, the eluen	t act	s as		phase.	
		a) Stationary	b) Support	c)	Mobile	d)	None of these	
	7)	Zeolites are	substan	ces.				
		a) Crystalline		b)	Amorphous			
		c) Both of these		d)	None of these	7		



	8)	3) The ratio of distance moved by solute to solvent is called as								
		a) Capillary action		b)	Distribution co	pefficient				
		c) Adsorption coeffic	ien	t	d)	Rf value				
	9)	Soda acid fire extingu	uish	ers consists of	·		and an acid.			
		a) NaHCO <sub>3</sub>	b)	Na <sub>2</sub> CO <sub>3</sub>	c)	NaOH	d) None of these			
	10)	It is better tois formed.		waste th	an	to treat or clea	n up waste after it			
		a) Burn	b)	Burry	c)	Prevent	d) Dump in sea			
2.	An	swer <b>any five</b> of the f	ollo	wing :				10		
	i)	Give the Faraday's la	aw (	of electrolysis.						
	ii)	Mention different type	es c	of chromatogra	phy	<b>/</b> .				
	iii)	What is green chemi	stry	?						
	iv)	Give the different typ	es	of fires.						
	v)	State advantages of I	bio	catalyzed react	ior	S.				
	vi)	Explain Antifreeze ex	cting	guishers.						
3.	A)	Answer <b>any two</b> of th	ne f	ollowing:				6		
		i) Explain the role of	of bi	ocatalyst in ox	ida	tion reactions.				
		ii) Discuss the gene		-						
		iii) Write a note on c		•				_		
	B)	What are zeolites?	zp	lain their role ir	۱ F	riedel craft alky	/lation.	4		
4.	An	swer <b>any two</b> of the f	ollo	wing:				10		
	i)	Discuss the experime	enta	al procedure of	ра	per chromatog	raphy.			
	ii)	Explain the cathode a	and	anode efficien	cie	s in detail.				
	iii)	Write a note on princ	iple	s of green che	mi	stry.				
5.	An	swer <b>any two</b> of the f	ollo	wing :				10		
	i)	Explain classification	of	water and wate	er b	ase extinguish	ners.			
	-	Write a note of Nicke				J				
	•	Explain the experime	-	•	colu	umn chromato	graphy.			
	,	. '		-		•	- · •			



Seat	
No.	

## B.Sc. - III (Entrepreneurship) (Sem. - VI) Examination, 2014

IN				CHNOLOGY (Paper – X Plant Tissue Culture	.)
•	nd Date : Tuesd 11.00 a.m. to 1	•		Max. Marks	: 50
	Instructions :	<ol> <li>All questions</li> <li>Draw neat and</li> <li>Figures to the</li> </ol>	l labelled diagrar	m <b>whenever</b> necessary.	
1. Re	ewrite the follov	ving sentences by	using correct alt	ernatives.	10
1)	) A population	of cell that reprodu	ce themselves is	s called as	
	a) Hybrid	b) Cybrid	c) Clones	d) Interbreeds	
2	) Northern Blot	ting technique is u	sed for	molecules.	
	a) RNA	b) DNA	c) Protein	d) Protein and DNA	
3	c-DNA library	is prepared from _			
	a) Sn-RNA	b) t-RNA	c) r-RNA	d) m-RNA	
4	)m	nedia is used for P7	ΓC.		
	a) Nutrient m		b) M-S media		
		ey's media		media	
5)	G <sup>↓</sup> AATTCi CTTAA <sub>↑</sub> G_	is the recognition s	site for		
	a) BamHl	b) HaeIII	c) HindIII	d) EcoRI	
6)	) Method of pro as	ppagating plants b —	y culturing very s	small parts of explant called	
	a) Propagation	on	b) Micropropa	agation	
	c) Macroprop	pagation	d) Colonization	on	
7	)	enzyme is used in	PCR.		
	a) Taq polym	erase	b) Helicase		
	c) Steward		d) Haberland	t ,	ο T Ο

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	8)	Th	e term totip	otency introduce	ed by _				
		a)	Miller	b) Seward	c)	Steward	d)	Haberlandt	
	9)			is an artificial	plasmi	d containin	g COS	Site of $\lambda$ DNA.	
		a)	Cosmid	b) Plasmid	c)	M <sub>13</sub>	d)	Shuttle	
	10)	Cu	ılturing of is	solated cell in liqu	uid med	dia is called	as		
		•	Organ cult		•	Callus cult			
		c)	Protoplast	culture	d)	Suspension	on cult	ure	
2.	Ans	swe	er <b>any five</b>	of following.					10
	1)	De	efine suspe	nsion culture.					
	2)	En	list the nan	nes of labelling n	nethod	<u>.</u>			
	3)	Ad	lvantages c	of PTC.					
	4)	Co	smids.						
	5)	WI	nat is orgar	n culture and giv	e their	types?			
	6)	Mi	cronutrient	S.					
3.	A)	An	swer <b>any t</b> v	<b>wo</b> of following.					6
		1)	Plasmid ve	ector					
		2)	Northern B	lotting					
		3)	Role of pol	ymerases in gen	ne cloni	ng.			
	B)	Ro	le of plant g	growth regulators	s in Pla	nt Tissue C	ulture	).	4
4.	Ans	swe	er <b>any two</b>	of following.					10
	1)	Ex	plain differ	ent stages of mic	roprop	agation.			
	2)	Gi	ve the meth	nod for construct	tion of o	c-DNA libra	ıry.		
	3)	Ex	plain restri	ction enzyme in	detail.				
5.	Ans	swe	er <b>any two</b>	of following.					10
	1)	Ex	plain PCR	in detail.					
	2)	De	efine transg	enic plant and e	xplain i	nsect resist	tance	plant.	
	3)	Gi	ve the prot	ocol for callus cu	ılture.				



Seat	
No.	

### B.Sc. – I (Semester – I) Examination, 2014 ENTREPRENEURSHIP (New) Industrial Biotechnology (Paper – I) (Cell Biology)

Day ar	nd Date : Wednesday, 11-6-2014		Max. Marks : 50				
Time:	Time : 3.00 p.m. to 5.00 p.m.						
Ins	tructions: 1) All questions are constructions: 2) Draw neat and label 3) Figures to the righ	elled diagrams <b>wherever</b> nece	essary.				
1. Re	ewrite the following sentences by c	hoosing correct alternative.	10				
1)	Chloroplast is present in	·					
	a) Plant cell	b) Animal cell					
	c) Both a and b	d) None of the above					
2)	type of ribosome prese	ent in prokaryotic cell.					
	a) 80 S	b) 30 S					
	c) 70 S	d) 90 S					
3)	is called as suicide	bags.					
	a) Ribosome	b) Lysosome					
	c) Chloroplast	d) Mitochondria					
4)	Guanine pairs with cytosine with _						
	a) Two hydrogen bond	b) Glycosidic bond					
	c) Three hydrogen bond	d) Peptide bond					
5)	Cell is discovered by						
	a) Watson and Crick	b) Robert Hook					
	c) Waldeyer	d) Griffith					

0)	wiilosis lake piace iii	_		
	a) Reproductive cell	b)	Somatic cell	
	c) Germ cell	d)	Bacterial cell	
7)	DNA synthesis takes place in			
	a) G <sub>1</sub> phase	b)	G <sub>2</sub> phase	
	c) Sphase	d)	M phase	
8)	The chromosome having centron chromosome.	ner	e at one end of chromosome is called	
	a) Metacentric	b)	Sub metacentric	
	c) Telocentric	d)	Acrocentric	
9)	t-RNA is also known as			
	a) Soluble RNA	b)	Ribosomal RNA	
	c) Template RNA	d)	None of the above	
10)	The ratio of purine to pyrimidine is	;		
	a) 1:2	b)	2:1	
	c) 1:1	d)	4:1	
2. A	nswer <b>any five</b> of the following:			10
1)	Draw neat labelled diagram of chlo	orop	plast.	
2)	What is chromosome and give its	typ	es?	
3)	Features of meiosis.			
4)	What is endoplasmic reticulum?			
5)	Define simple diffusion.			

6) Enlist phases involve in mitosis.

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# B.Sc. I (Semester – I) Examination, 2014 ENTREPRENEURSHIP (Paper – II) (New) Economics for Manager and Managerial Accounting

Day and Date: Thursday, 5-6-2014	Max. Marks : 50
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Time: 3.00 p.m. to 5.00 p.m.

Instructions: 1) All questions are compulsory.

2) Figures to the **right** indicate **full** marks.

1.	. Choose correct answers from	n the given alternatives.	10
	1) Closing stock is recorded	on side of	
	a) Credit and P & L A/c	b) Credit and T	rading A/c
	c) Asset and Balance she	eet d) Both (b) and	(c)
	2) Goodwill is		
	a) Tangible asset	b) Intangible as	sset
	c) Both (a) and (b)	d) None of thes	e
	3) Depreciate is charge on	·	
	a) Fixed asset	b) Current asse	et
	c) Both (a) and (b)	d) None of thes	e
	4) Debtors are recorded on _	side of Balanc	e sheet.
	a) Liabilities	b) Assets	
	c) Fixed asset	d) All of these	
	5) Cash account is	account.	
	a) Real b) Per	rsonal c) Impersonal	d) Nominal



6)	In	market there are few sellers.			
	a) Oligopoly	b) Monopoly			
	c) Monopolistic	d) Perfect competition			
7)	In	market there are many sellers and many buyers.			
	a) Oligopoly	b) Monopoly			
	c) Monopolistic	d) Perfect competition			
8)	There is	relation between price and quantity demanded.			
	a) Equal	b) Same			
	c) Inverse	d) None of these			
9)	inp	outs change with change in production.			
	a) Variable	b) Fixed			
	c) Semi variable	d) All of these			
10)	ir	nputs cannot change with change in production.			
	a) Variable	b) Fixed			
	c) Semi fixed	d) All of these			
2. Ar	nswer <b>any five</b> of the	following:	10		
1)	Define Oligopoly.				
2)	Define Monopoly.				
-	Define Perfect com	petition.			
,	Define Managerial E				
-	_				
•	Define Business Fir				
6)	Define Book Keepir	ng.			
3. A)	Answer any 2 of the	e following :	6		
	1) Write assumption	ons of perfect competition.			
	2) Write assumption	ons of Monopoly.			
	3) Write assumption	ons of Oligopoly.			
B)	What are the differen	ent types of accounts ? Explain their rules.	4		

10



#### 4. Answer **any two** of the following:

1) Prepare Trading Account and calculate Gross Profit/Loss from the given information.

a)	Opening stock	_	Rs.	20,000
b)	Purchases	_	Rs.	80,000
c)	Sales	_	Rs.1	,00,000
d)	Sales return	_	Rs.	5,000
e)	Wages	_	Rs.	5,000
f)	Freight	_	Rs.	5,000
g)	Advertisement	_	Rs.	10,000
h)	Closing stock	_	Rs.	50,000
i)	Carriage inward	_	Rs.	5,000

- 2) Define managerial economics. Explain nature and scope of managerial economics.
- 3) Explain in detail internal and external sources of Finance.

#### 5. Answer any one of the following:

10

- 1) Explain in detail nature and scope of accounting.
- 2) Prepare Balance sheet from given information:

•	•
a) Land and Building	Rs. 20,000
b) Goodwill	Rs. 20,000
c) Cash in hand	Rs. 20,000
d) Machinery	Rs. 20,000
e) Capital	Rs. 50,000
f) Drawings	Rs. 10,000
g) Secured loan	Rs. 20,000
h) Unsecured loan	Rs. 20,000
i) Sundry creditors	Rs. 20,000
j) Sundry debtors	Rs. 20,000



Seat	
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## B.Sc. – I (Sem. – I) (Entrepreneurship) Examination, 2014 INDUSTRIAL CHEMISTRY (Paper – I) (New) Fundamentals of Inorganic Chemistry

			•		•		
•	nd Date : Friday, 6- 3.00 p.m. to 5.00					Max. Mar	ks : 50
		<b>All</b> questions a Figures to the <b>I</b>	=	_	rks.		
	elect the most corr ntences.	ect alternative fo	or <b>each</b> of the	followii	ng and r	ewrite the	10
1)	Increase in bond	order	in bon	ıd lengt	h.		
	a) decrease		b) increase				
	c) slow decreas	е	d) slow incr	ease			
2)	Oxides of carbon	are the	poll	utants.			
	a) organic		b) inorganic				
	c) physical		d) biologica	l			
3)is the best so		is the best sol	vent for ionic s	solids.			
	a) Ether		b) Water				
	c) Benzene		d) CCl <sub>4</sub>				
4)	Pauling and slate	r developed					
	a) MOT	b) VSEPR	c) VBT	d)	CFT		
5)	Sound intensity is	s measured in					
	a) Kg/dm <sup>3</sup>				g/L		
6)	Vehicular traffic i	s the cause of		pol	lution.		
,	a) Automobile		b) Water	•			
	c) Nuclear		d) Agricultu	re			
7)	Bonding MO's ar	e present at		energy	y level.		
,	a) Higher	-	b) Same	3.			
	c) Equal		d) Lower				



	8)	ionisation energy	is measured in t	the units of			
		a) mole/L		b) S <sup>-1</sup>			
		c) kJ/mole		d) kJ/cc			
	9)	In BeCl <sub>2</sub> , Be unde	rgoes	hybridis	atior	١.	
		a) SP	b) SP <sup>2</sup>	c) SP <sup>3</sup>	d)	$SP^3d^3$	
	10)	Sharing of electron	n pair between tw	o combining ator	ns is	results in the formation	
		of	bond.				
		a) ionic	b) polar	c) covalent	d)	metallic	
2.	An	swer <b>any five</b> of th	e following :				10
	a)	Define ionic bond	with suitable ex	ample.			
	b)	Explain $P_x - P_x$ ov	erlap.				
		What is meant by		?			
	d)	Mention the types	of pollution.				
	e)	Draw MO diagram	of H <sub>2</sub> molecule	).			
	f)	Explain solubility of	_				
2	۸۱	Anouse enviture	of the fellowing .				6
3.	A)	Answer <b>any two</b> of 1) What is the eff	_		of io	nic compounds ?	6
		2) What are the c		-		nic compounds:	
		3) What is the ge				Cl <sub>5</sub> molecule.	
	B)	Differentiate between	•				4
1	Δn	swer <b>any two</b> of th	e following :				10
⊣.		_	_	d in ionic bond fo	o rmo c	ation	10
	•	Discuss the energ					
	2)	of MOT.	etic character ar	nd stability of car	noa	molecule on the basis	
	3)	Draw the structure	e of NaCl.				
5.	Wr	ite the short notes	on <b>any two</b> of t	he following :			10
	1)	Geometry of BF <sub>3</sub> r	nolecule.				
	2)	Toxic effects of ox	dides of carbon.				
	3)	Born-Haber cycle	for NaCl.				



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### B.Sc. I (Semester – I) Examination, 2014 ENTREPRENEURSHIP Industrial Microbiology – I (New) Fundamentals of Microbiology

Fun	damentals of	IVI	icrobiology		
Day and Date: Monday, 9-6-20 Time: 3.00 p.m. to 5.00 p.m.	014			Max. Marks	: 50
,	stions are <b>comp</b> to the <b>right</b> indi		•		
1. Rewrite the sentences by	selecting correc	t ar	nswer from the (	given alternatives.	10
1) Penicillin antibiotic first	discovered by				
a) John Tyndall	•	b)	Robert Koch		
c) Alexander Flemmin	g	d)	Louis Pasteur		
2) Motility of bacteria due	to				
a) Capsule	o) Pilli	c)	Flagella	d) Cell wall	
3) In prokaryotes ribosom	es are ty	pes	<b>.</b>		
a) 80 S	o) 70 S	c)	60 S	d) 50 S	
4) Cell wall of fungi contai	n				
a) Chitin or cellulose of	or both	b)	Chitin or starch	h	
c) Carbohydrate or lip	id	d)	Mucopolysacc	haride or cellulose	
5) Archaebacteria are also	o known as				
a) Suicide bags		,	False bacteria		
c) Extremophiles		d)	All of above		
6) The smallest bacteria is	S				
a) Eubacteria		-	Mycoplasma		
c) Archaebacteria		a)	None of above		
7) Alcohol fermentation is	•	۵۱	D. Thuringonsi	a d) C Caraviaia	_
a) <u>E. Coli</u>	b) <u>B. Subtilis</u>	C)	B. I nuringensi	s d) <u>S. Cerevisia</u>	<u>C</u>
8) Fuid Mosaic model are	proposed by	<b>ل</b> ما	Kash <sup>9</sup> Dasta		
<ul><li>a) Watson &amp; Crick</li><li>c) Singer &amp; Nicolson</li></ul>		,	Koch & Pasteu Redi & Needha		
c) Singer & Nicoison		u)	I ICUI A INCCUITA	u I I	P.T.O.

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9) Moist heat or steam sterilization carried out with a) Incubator b) Autoclave c) Hot air oven d) Lyophilization 10) Pilli is the site for a) Locomotion b) Movement c) Attachment d) All of the above 2. Answer any five of the following: 10 a) What are flagella? Give its function. b) Write contribution of Alexander Flemming. c) Define Disinfectant. d) Diauxic growth. e) Principles of Nomenclature. f) Give two beneficial activities of bacteria. 3. A) Answer the following questions (any two): 6 1) Define and write scope of Agriculture microbiology. 2) Define growth and write different phases of growth. 3) Write down the salient features of Actinomycetes. B) Discuss in brief difference between Prokaryotic cell and Eukaryotic cell. 4 4. Answer any two of the following: 10 A) Describe important contribution of Louis Pasteur. B) Write in detail composition of Gram positive cell wall. C) Write structure, chemical composition and function of flagella. 10 5. Answer any one of the following: A) Describe bacterial classification based on morphological and cultural character. B) Write in detail methods of control of microorganism.



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## B.Sc. – I (Semester – I) (Entrepreneurship) Examination, 2014 INDUSTRIAL MICROBIOLOGY (New) Paper – II: Basic Techniques in Microbiology

		Paper – II : Basic	Techniques in Microbiology	
-		Date : Tuesday, 10-6-2014 .00 p.m. to 5.00 p.m.	Max. Marks : 50	)
		<b>N.B.</b> : 1) <b>All</b> question 2) Figures to the	s are <b>compulsory</b> . ne <b>right</b> indicates <b>full</b> marks.	
		rite the following sentences bratives.	by selecting correct answers from given	)
	1) _	is used for r	naintaining osmotic balance in culture media.	
	;	a) Peptone	b) Meat extract	
		c) NaCl	d) Agar	
	2) I	Bacteria are observed under _	objective lens.	
	;	a) 10 X	b) 40 X	
		c) 45 X	d) 100 X	
;	3) _	is used as ded	coloriser in Gram staining.	
	;	a) Alcohol	b) lodine	
	(	c) Basic fuchsin	d) Crystal violet	
	4) _	is selective	medium for coliforms.	
	;	a) Nutrient agar	b) MacConkey's Agar	
	(	c) Blood agar	d) Milk agar	
:	5) _	is an examp	ole of broth media.	
	;	a) Nutrient agar	b) Milk agar	
	(	c) Blood agar	d) Peptone water	
(	6) I	Embryonated egg is used for d	cultivation of	
	;	a) Viruses	b) Bacteria	
		c) Fungi	d) Protozoa	
•	7) _	is used for go	eneration of electrons in electron Microscope.	
	;	a) Mirror	b) Lamp	
	(	c) Jungsten Filament	d) Condenser	

### **SLR-EN-43**



	8)	is used for obtaining p	oure	e culture.	
		a) SPC	b)	TVC	
		c) MPN	d)	Streak plate technique	
	9)	Mycobacteria are stained by		staining.	
		a) Gram	b)	Simple	
		c) Negative	d)	Acid fast	
	10)	Mannitol salt agar is used as selective n	ned	ium for	
		a) <u>S. aureus</u>	b)	E. Coli	
		c) <u>Bacillus</u>	d)	Pseudomonas	
2.	Ans	swer any five of the following:			10
	i)	Use of Neubaur's chamber.			
	ii)	Mechanism of simple staining.			
	iii)	Uses of fluorescent microscope.			
	iv)	Types of stains.			
	v)	Define selective media.			
	vi)	Uses of Dark field Microscope.			
3.	A)	Answer <b>any two</b> of following:  i) Acid fast staining.  ii) Enumeration of cells by direct metholiii) Scanning electron Microscope.	ods		6
	B)	Describe in detail Gram staining.			4
4.	Ans i) ii)	swer <b>any two</b> of the following : Selective and enriched media. Standard plate count. Living media.			10
5.	i)	scribe in detail <b>any one</b> of the following: Describe in detail cultivation and isolation What is differential staining? Describe	on t	•	10

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## B.Sc. I (Semester – I) Examination, 2014 ENTREPRENEURSHIP (New) Industrial Biotechnology – II (Animal and Plant Physiology)

	illuusiilai bi	otechnology	y – II (Aliili	iai aliu Piali	it Physiology)	
-	and Date : Thursd : 3.00 p.m. to 5.0	•			Max. Marks :	50
	Instructions :	2) Draw nea	t and labelled	•	<b>erever</b> necessary. ks.	
1. F	lewrite the followi	ing sentences	by choosing	correct alterna	ative :	10
1	) The reaction ce a) P700	entre of photos b) P 500		designated as P 450	d) P 660	
2	) The light reaction a) Stroma	ons of photosy b) Granr		ırs in Cytoplasm	d) Nucleus	
3	) Non-cyclic phota		-	Both a and b	d) None of these	
4	) Mast cell secre a) Histamine	tes b) Hepa	rin c)	Serotonin	d) All of the above	
5	) The white fiber a) Ligaments	ous tissue occ b) Tendo		Cartilage	d) Bone	
6	) Striated muscle a) Gall bladder			Leg muscles	d) Lungs	
7	The enamel co a) 96 %	nsists of b) 97%	_		d) 95 %	
8	) The weight of p a) 1.0	ituitary gland i b) 0.5		gm. 1.5	d) 2.5	

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	9)	Sertoli cells secrete						
		a) Glucagon	b) GH	c) Testoster	one	d)	All of the above	
•	10)	A group of cell havi similar function is c		nore or less sim	nilar	size	and shape and	
		<ul><li>a) Prokaryotic cells</li><li>c) Nerve cells</li></ul>	S	<ul><li>b) Eukaryot</li><li>d) Tissue</li></ul>	ic ce	ells		
2.	An	swer any five of the	e following :					10
	1)	Give difference bet	ween light and dar	k reaction.				
	2)	Define test buds.						
	3)	What are multicellu	ılar glands ?					
	4)	What is micropropa	gation?					
	5)	What is adipose tis	sue ?					
	6)	Give types of cartile	age.					
3.	A)	Answer any two of	J					6
		1) What is emersion		tect?				
		<ul><li>2) Describe compo</li><li>3) Give the applica</li></ul>	•	sue culture.				
	B)	Explain in detail his	stology of stomach					4
4.	An	swer <b>any two</b> of the	e following :					10
	1)	Explain Electron tra	ansfer pathway.					
	2)	Describe structure,	origin and functio	n of nervous tis	sue			
	3)	Describe histology	of pancreas.					
5.	An	swer <b>any one</b> of the	e following :					10
	1)	Explain in detail Ca	alvin cycle.					
	2)	Explain structure, o	origin and functions	s of connective	tiss	ue.		



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## B.Sc. – I (Sem. – II) (Entrepreneurship) Examination, 2014 ENGLISH COMPULSORY (New) On track: English Skills for Success

	On track : English Skills for Success						
-	d Date : Thursday 11.00 a.m. to 1.00			Max. Marks : 50			
1	Instructions: 1)	<b>All</b> questions ar Figures to the <b>ri</b>		marks.			
1. Re	write the following	sentences choo	sing the correct	alternative. 10			
i)	Dr. Kalam had su	accessfully tested	dwh	ile he was in France.			
	a) PSLV	b) SLV-3	c) V-2	d) Jupiter			
ii)	Maharaja of Khet America.  a) money  b) gold coins  c) a beautiful rob  d) copy of the Br	oe	to Vivek	ananda for his journey to			
iii)	The Parliament o	_					
	a) America		c) Canada	•			
iv)	humanity. a) natural calam	ities	b) diseases	_ is the greatest threat to			
\	c) nuclear weapo		•	peing himself/herself			
V)		_		in the meaning.			
!\	a) slay	b) murder	c) help	d) kill			
VI)	'The bubble hous	-					
	a) moon	b) earth	c) planet	d) nature			



	vii)	Tł	ne lioness is fee	eding	cub.			
		a)	her	b) its	c) it	d)	herself	
\	/iii)	M	aharastra is on	e of the	states ir	n the cou	ntry.	
		a)	large	b) larger	c) more la	rger d)	largest	
	ix)	M	ohan found the	in h	nis soup yes	sterday.		
		a)	hare	b) here	c) hear	d)	hair	
	x)	Tł	ne antonym for	the word 'barren'	is			
		a)	infertile	b) heath	c) fertile	d)	dull	
2.	An	sw	er <b>any five</b> of th	ne following ques	stions in <b>two</b>	<b>a</b> nd <b>th</b> i	ree sentences each.	10
	i)		ho was Wernhother the world?	er Von Braun and	d what was	his conti	ribution to science and	
	ii)	Sı	ummarise the p	oints of advice th	nat Von Bra	un gave	Dr. Kalam.	
	iii)		hat were the porival in America		ew culture t	that struc	ck Vivekananda on his	
	iv)	W	ho were the oth	ner Indians prese	ent at the pa	ırliament	of Religions?	
	v)	W	hat do you und	erstand by huma	n rights?			
	vi)	W	hy does the au	thor declare that	human righ	nts canno	ot function in a vacuum 1	?
3.	A)	An	swer <b>any two</b>	of the following q	uestions in	about <b>50</b>	) words <b>each</b> .	6
		i)	What is the ori	gin or backgrour	d of the po	em 'Brah	nma'?	
		ii)	How was the N	Moon's light made	e holy in Ge	thsemar	ne?	
		iii)	Examine the the Moon'.	neme of innocen	ce versus e	xperienc	e in the poem 'Full	
	B)	An	ıswer briefly <b>an</b>	<b>y two</b> of the follo	wing questi	ions.		4
		i)	What is meant	t by BCC in e-ma	il ? Explain			
		ii)	What precaution	ons should be tal	ken while se	ending th	ne e-mails ?	
		iii)	Write out any	two e-mail ID's o	f vour friend	ds.		



4. You are Veena Raut the secretary of the 'Student's Union' in 'Doon College, Mumbai. The college is conducting 'Blood Donation Camp' on the occasion of Swami Vivekananda's birth anniversary. Draft notice and agenda informing the members about the data, time and venue of the meeting.

10

OR

Write out the minutes of the 'meeting of Marathi Cultural Association' Mumbai.

Time: 10 a.m. Date: 15 July 2013

Venue: Kala Bhavan, Mumbai

#### Agenda

10.00 a.m. -Call to order

10.15 a.m Presentation of the minutes of the previous meeting for approval

by the board.

Report of the secretory to the directors of board. 10.30 a.m. –

Report of the treasurer 11.00 a.m. –

12.00 p.m. – Planning the annual 'Navaratri Festival'.

Adjournment. 1.30 p.m.

5. You wish to apply for the post of Assistant Professor in the subject of Chemistry. Prepare the C.V. for the post with suitable biographical details. 10



Seat	
No.	

## B.Sc. – I (Semester – II) (Entrepreneurship) Examination, 2014 ENGLISH COMPULSORY (New) On Track: English Skills for Success

	On 1	Γrack : English	Skills for Suc	cess	
-	d Date : Sunday, 18 I 1.00 a.m. to 1.00 p			Max. N	/larks : 50
	•	<b>MI</b> questions are <b>co</b> igures to the <b>righ</b>		arks.	
1. Re	write the following	sentences by choo	sing the correct	alternative :	10
i)	Dr. A.P.J. Abdul Ka Braun.	alam was entrusted	d the responsibilit	y of	_Von
	a) Dropping	b) Ticking up	c) Inviting	d) Introducir	ng
ii)	Wernher Von Brau				
	a) $V-2$	b) V – 1	c) V-3	d) $V-4$	
iii)	had the West.				ney to
	<ul><li>a) Maharaja of Kh</li><li>c) J. H. Wright</li></ul>	netri	<ul><li>b) Maharaja o</li><li>d) His friends</li></ul>	f Delhi	
iv)	a) Swami Vivekar c) Dharmpala		e of the first sess b) Nagarkar d) Cardinal Gi		ent.
v)	The death of the pe	eople at the hands	of their own gove	rnments is an exa	ımple
	<ul><li>a) Violations of he</li><li>c) Violation of val</li></ul>	uman rights ues	<ul><li>b) Violation of</li><li>d) Violation of</li></ul>	the laws customs	
vi)	Nani A. Palkhivala a) Equality	sums up human ri b) Liberty			/
vii)	The red slayer in that a) Soldier	ne poem 'Brahma' b) The slain	is referred to c) Heaven	d) Brahmin	
viii)	Who challenges that a) Astronomers	ne sacred identity o		d) The child	ren

SLR-EN – 46R							
	ix)	My friend is fond	p	laying cricket.			
		a) off	b) of	c) in	d) by		
	x)	Mother is a	singer th	an me.			
		a) good	b) better	c) best	d) worst		
2.	Answer any five of the following questions in two or three sentences each:					10	
	i)	Multifaceted career of Wernher Von Braun.					
	ii)	What did Von Braun advise Dr. A.P.J. Abdul Kalam?					
	iii)	What did attract Swami Vivekananda's attention in China and Japan?					
	iv)	Describe Vivekananda's appearance in the passage.					
	v)	What is the speciality of the mirror in the zoo of Lusaka?					
	vi)	Why is the oldest human rights organization still in business?					
3.	A) i) What is the message in the poem 'Brahma'?					6	
	,	•	nnocence of man a				
		iii) Explain the line, 'It shines tonight upon their graves'.					
	B)	B) Answer briefly <b>any two</b> of the following questions:					
		<ul> <li>i) As a program officer of a college N.S.S. Unit. Write a notice about the camp at the village and the schedule of activities.</li> </ul>					
		ii) Write the ager	nda for the third m	eeting of Utkars	h Cricket Club, Solapur.		
		•	about the book ende yourself as the		eld by the library of a		
4.	A)	Write an e-mail application letter in response to an advertisement for the part of Sales Executive by Gyan Book Publishers, New Delhi refer only briefly to your qualifications, work experience and say that you are attaching your CV for the reference.					
			OR				
	B)	Imagine that you have received an e-mail of appointment of a sales executive by Atlantic Book Publishers, New Delhi. Write an e-mail accepting the appointment.					
5.	Pre	epare a CV of you	r friend who is em	ployed as a prin	nary teacher.	10	

**SLR-EN - 47** 



Seat	
No.	

#### B.Sc. – I (Sem. – II) Examination, 2014 ENTREPRENEURSHIP (Paper – III) (New) Principles of Marketing and Management Accounting

-	d Date : Friday, 9-5-2014 11.00 a.m. to 1.00 p.m.		Max. Marks : 50
1. Ch	oose the correct answer from give	n al	Iternative: 10
i)	is example of mark	et.	
	a) Cotton	b)	Finance
	c) Money	d)	Sweet
ii)	is area of marketing	re:	search.
·	a) Observational Research	b)	Product Research
	c) Survey Research	d)	None of these
iii)	Which one of the following would	not	be classified as manufacturing overhead?
ŕ	a) Indirect labour		Direct material
	c) Insurance on factory building	d)	Indirect material
iv)	NPO stands for		
,	a) Non Profit Ratio	b)	Net Profit Ratio
	c) National Profit Ratio	d)	Net Perfect Ratio
v)	MIS stands for		
·	a) Mass Information System	b)	Marketing Information System
	c) Most Information System	d)	Market Information Segmentation
vi)	A manager who is establishing obfunction?	jec	tives is performing which management
	a) Motivating	b)	Directing
	c) Planning	d)	Constraining
vii)	LR stands for		
·	a) Latin Ratio	b)	Lituid Ratio
	c) Local Ratio	d)	Learn Ratio
viii)	Managerial accounting does not e	ncc	ompass
,	a) Calculating product cost		Calculating earning per share
	c) Determining cost behaviour	•	Profit planning

**SLR-EN - 47** ix) MS stands for a) Market Setting b) Market strength c) Market Segmentation d) Market selection x) \_\_\_\_\_ is types of Account. a) 4 b) 5 c) 3 d) 2 2. Answer any five of the following: 10 i) Long form of SWOT. ii) What is meant by market? iii) What is meant by micro-environment? iv) What is meant by accounting? v) What is meant by ratio analysis? vi) Define debtor and creditor. 3. A) Answer any two of the following: 6 i) Gross profit ratio. ii) Importance of marketing research. iii) Selling Vs Marketing. B) Describe in short Management Account. 4 4. Answer any two of the following: 10 i) Explain the types of marketing. ii) Write down advantage of segmentation. iii) Write down current ratio. 5. Answer any two of the following: 10 i) Explain scope and limitation of marketing research. ii) Explain the types of account and rules of account with example. iii) Describe internal and external forces.

**SLR-EN - 48** 



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#### B.Sc. – I (Semester – II) (New) Examination, 2014 ENTREPRENEURSHIP (Paper – IV) Cost Accounting and Project Management

Day and Date : Saturday, 10-5-2014 Time : 11.00 a.m. to 1.00 p.m.		Max. Marks : 50
Choose the correct answer from given all	ternative :	10
<ul> <li>i) Cost accounting is one of the subdivis</li> </ul>	ion of	
<ul> <li>a) Management accounting</li> </ul>	b) Financial accounting	
c) Corporate accounting	d) None of these	
ii) Cost of production is		
<ul> <li>a) Factory cost + Administration ove</li> </ul>	rhead	
b) Factory cost + Prime cost		
<ul><li>c) Prime cost + Factory cost</li></ul>		
d) Prime cost + Factory overhead		
iii) Material is		
<ul><li>a) Direct expenses</li></ul>		
b) Indirect expenses		
c) Both a) + b)		
d) None of these		
iv) Service costing is used in	_	
a) Hotel	b) Hospital	
c) Tourism	d) All of the above	
v) Builders / Developers used		
a) Depreciation costing		
b) Contract costing		
c) Job costing		
d) Batch costing		

vi)	<ul><li>SSI means</li><li>a) Small Scale Industry</li><li>b) Small Standard Industry</li><li>c) Standard Scale Industry</li><li>d) None of these</li></ul>		
vii)	<ul> <li>Project means</li> <li>a) Plan of action</li> <li>b) Blue print of goals</li> <li>c) Set of activities consideration of o</li> <li>d) All of the above</li> </ul>	utput	
viii)	The methods used for the calculation of a) Costing method b) Costing procedure c) Costing system d) None of these	f cost per unit are known as	
ix)	Operation costing is useful fora) Transport c) Both a) + b)	b) Power generation d) None of these	
x)	PM stands for  a) Private Management  c) Project Material	<ul><li>b) Project Management</li><li>d) Prime Management</li></ul>	
i) ii) iii) iv)	write down type of cost.  Note on SSI.  Define Cost Accounting.  Explain sources of capital.  What is indirect cost?		10
vi)	Note on project report.		

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**SLR-EN-48** 

	-3-	SLR-EN – 48
3. A) Answer <b>any two</b> of the i) Define project sele ii) Explain elements of iii) Object of cost according	ction process. of cost.	6
B) Describe in short : Objective and scope of	of small business.	4
ii) Explain the character	llowing:  project report and explain its contents.  istics of management costing.  irect expenses with example.	10
, .	_	10



Seat	
No.	

### B.Sc. – I (Sem. – II) (Entrepreneurship) Examination, 2014 INDUSTRIAL CHEMISTRY (Paper – III) (New) Fundamentals of Physical Chemistry

			•	•	
	d Date : Monday 11.00 a.m. to 1.0			Max	. Marks : 50
	2	) Draw <b>neat</b> di	s are <b>compulsory</b> iagram and give eq ne <b>right</b> indicate <b>fu</b>	guation <b>wherever</b> ned	cessary.
1. Se	lect most correct	t alternative.			10
1)	The substance	which is prese	ent in less amoun	t in the solution is ca	alled as
	a) solvent c) solid	_	b) solute d) all of these	Э	
2)	Molality is deno	ted by symbol			
	a) m	b) M	c) N	d) X	
3)		lled as	s whose concentra of reac b) Rate cons d) All of these	tant	velocity
4)	The rate of reac	tion	with increa	ase in temperature.	
	<ul><li>a) decreases</li><li>c) remains con</li></ul>	stant	<ul><li>b) increases</li><li>d) all of these</li></ul>	<b>Э</b>	
5)	The reaction wh	nose order is or	ne but molecularity	v is greater than one is	s called
	as a) second orde c) pseudo-unim	r	b) zero order d) all of these		
6)	Unit of first orde	r rate constan	t is		
	a) time <sup>-1</sup>	b) time	c) mole/litre	d) litre/mole	
7)	Ideal gas equat a) PV = RT c) PV = Consta		of gas is b) PV = nRT		
		נוונ	d) All of these	<del>5</del>	



	8)	,	is called as o) Excluded volu d) All of these	ume	
	9)	,	rmine the o) Parachor d) All of these		
	10)	Molecular volume at unit value of sua) Parachor b) Viscosity			
2.		swer <b>any five</b> of following : Define number of moles and mole fr	action.		10
	3) 4) 5)	Give the factors affecting the rate of Define pseudo-unimolecular reactio What do you mean by ideal gas and Define isotherm and draw its graph. What is the Macleod equation? Giv	n and give its ex non-ideal gas ?		
3.	A)	Attempt <b>any two</b> :  1) Define zero order reaction and e 2) Give the statement of Joule Tho 3) Give three characteristics of sec	mson effect and	d draw its diagram.	6
	B)	Explain pressure correction in Van o	ler Waal's equa	tion.	4
4.	1) 2)	lve <b>any two</b> : Ostwald's isolation method with exa Derivation of first order rate constar Explain Andrew's isotherm.	•		10
5.	1) 2)	ite short note on <b>any two</b> of following Drop weight method for surface tens Values of 'a' and 'b' interms of T <sub>c</sub> , V Derivation for rate constant of second freactants.	sion determination $^{\prime}_{ m c}$ and $^{ m P}_{ m c}$ .		10



Seat	
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# B.Sc. I (Sem. – II) Entrepreneurship Examination, 2014 INDUSTRIAL CHEMISTRY (Paper – IV) (New) Fundamentals of Analytical Chemistry

Day and Date: Tuesday, 13-5 Time: 11.00 a.m. to 1.00 p.m	Total Marks : 5	i0		
,	-	give equations <b>wh</b>	<b>erever</b> necessary.	
Choose the most correct alt	ernative from <b>ea</b>	<b>ch</b> of the following	: 1	0
<ol> <li>1. 1) The process that occur</li> <li>a) non-spontaneous</li> <li>c) spontaneous</li> </ol>	rs on its own acco	rd is called b) isothermal d) adiabatic	process.	
2) The molecular weight weights of monomers.  a) addition  c) semisynthetic		•	e sum of molecular	
<ul><li>3) The abbreviation NA i</li><li>a) acrylonitrile</li><li>c) sodium</li></ul>	n BUNA refers to	b) nitrito acrylic d) none of these		
<ul><li>4) The process of reform</li><li>a) cyclisation</li><li>c) aromatisation</li></ul>	ning involves	b) isomerisation d) all of these		
<ol> <li>Octane number is zer</li> <li>a) n-Heptane</li> </ol>		c) n-Hexane	d) iso-heptane	
<ul><li>6) A homopolymer carrie</li><li>a) two</li><li>7) Efficiency of Carnot's</li></ul>	b) three	c) single	d) all of these	
,	,	c) ∈ = W/q²	d) all of these	

	8)	The pH of stomach is	ab	out				
		a) 7-8	b)	10 – 12	c)	5 – 6	d) 1-2	
	9)	No machine has		efficiency.				
		a) 0%	b)	100%	c)	50%	d) 99.9%	
	10)	The human body is co weight.	mp	oosed of about	·		percentage of water by	
		a) 60	b)	50	c)	40	d) 70	
2.	An	swer <b>any five</b> of the fo	llo	wing :				10
	1)	How the fuels can be t	es	ted?				
	2)	Define the term-therm	ор	lastic and therr	no	setting.		
	3)	What is enthalpy?						
	4)	Define milk. Give the chemical composition of cow milk.						
	5)	Give Kirchhoff's equat	ior	۱.				
	6)	Draw the structures of	lir	ear, branched	lar	id cross l	linked polymer.	
3.	·	Answer <b>any two</b> of the 1) What is meant by s 2) What are the types 3) Explain the heat ca Write a note on : esse	tra of pa	in run and gas polymer ? city of engine.				6
					Pic			
4.		,					10	
	1)	what is cracking of t cracking.	ue	I? Why it is	nec	cessary	? Give different types of	
	2)	How will you synthesiz	e l	outadiene, poly	/pr	opylene a	and melamine?	
	3)	Distinguish between s	00	ntaneous and r	non	-spontar	neous process.	
5.	An	swer <b>any two</b> of the fo	llo	wing :				10
	1)	Discuss the role of sodium carbonate as an antacid.						
	2)	What are the types of	fu	els? Discuss t	he	term fire	point.	
	3)	Write a note on Carno	t's	cycle.				

**SLR-EN-50** 



Seat	
No.	

### B.Sc. I (Semester – II) (New) Entrepreneurship Examination, 2014 INDUSTRIAL MICROBIOLOGY (Paper – IV) Basic Techniques in Microbiology

I	Basic Techniqu	ues in Microbiology	7	
Day and Date: Saturda Time: 11.00 a.m. to 1.0	•		Max. Marks	: 50
2)		compulsory. Illed diagram wherever i ght indicate full marks.	necessary.	
<ol> <li>Rewrite the followir alternatives.</li> </ol>	ng sentences by s	electing correct answer	s from given	10
1) Industrially impo	ortant microorgani	sms preserved and mai	ntained by	
A) Lyophilization	n	B) Pasteurization		
C) Water		D) Soil		
2) In the down stre	eam is ı	used for recovery of citri	ic acid.	
A) Precipitation	1	B) Crystallization		
C) Boiling		D) All of the above		
3)is u	used as vector in s	strain improvement by g	enetic engineering.	
A) DNA	B) RNA	C) Plasmid	D) T4 phage	
4) Tyndalization pr	ocess was discov	ered by		
A) Alexander F	lemmina	B) Louis Pasteur		
C) Both A and B	3	D) John Tyndall		
5)is	example of contir	nuous filtration.		
A) Plate and Fr	ame	B) Rotary vacuum		
C) HEPA filter		D) Meta filter		
6) Foam is produce	ed due to			
A) Aeriation		B) Agitation		
C) Temperature	ź	D) Both A and B		



	7)		is used in (	computer co	ontro	olled fermentati	ion broc	ess to conver	t
	- /	ADC to DAC							
		A) Interface	е			B) Clock			
		C) Meter				D) None of t	these		
	8)	The quantit volume.	y of inocul	um normally	us(	ed between		% of mediun	n
		A) 10-15	E	3) 20-25		C) 1-2	Ι	D) 3-10	
	9)		is the biolo	gical method	d for	cell disruption.			
		A) Lysozyr	ne		B)	Freezing			
		C) Ultrasor	nication		D)	Homogenization	on		
	10)		is the test o	organism us	ed f	or penicillin anti	ibiotic as	ssay.	
		A) B.subtie	<u>els</u>		B)	S.aureus			
		C) A.niger			D)	P.chrysogenui	<u>m</u>		
2.	1) 2) 3) 4) 5)	swer any five Define distill Enlist the nate Diffusion as Precipitation UV as mutated Define strain	llation. ames of mic ssay. n. genic agen	croorganism t.	s us	sed for penicillin	n produc	tion.	10
3.	ŕ	2) Explain	in brief met in short ste in brief prod	hods of isola ps involved cess of inocu	in si ulum	n for auxotrophi ite directed mut n development. tion.	tagenesi		6
1	•	swer <b>any tw</b>		•					10
4.		_		_	of f	ermentation pro	22220		10
	•	Describe in	•		011	ermemation pro	00033.		
	•	Discuss in o		-	imn	rovements			
	,				шр	rovernents.			
5.		swer any or		_		_			10
	,					the recovery of		•	i.
	2)	Define filtra			type	and mechanis	m of filtra	ation used in	



Seat	
No.	

# B.Sc. – I (Semester – II) (Entrepreneurship) Examination, 2014 INDUSTRIAL BIOTECHNOLOGY (Paper – III) Basic Biomolecules (New)

-	d Date : Monday 11.00 a.m. to 1.0			Max. Marks : 50
	2	_	<b>compulsory</b> . <b>ht</b> indicates <b>full</b> ma pelled diagram <b>whe</b> l	
1. Re	write the followin	g sentences by sele	cting appropriate alt	ernatives given below : <b>10</b>
1)	Cerebrosides a a) Sphingolipid c) Glycolipids		ongs to the class of _ b) Phospholipio d) None of the a	ls
2)	addition of wate a) Oxidoreduct c) Lyases	r.	ich catalyze cleavaç b) Transferases d) Hydrolases	ge of bond along with
3)	In active site. a) Competitive c) Non-compet	•	on the inhibitor binds b) Uncompetitiv d) Regulatory	to the site other than /e
4)	<del>-</del>		mins except c) Vit. BC	
5)		is the peptide b b) CO-OH	ond. c) CO-NO	d) NH-NH
6)		secondary struct	ure abundant in Fibr	ous protein.
	a) $\alpha$ helix c) Linear		<ul><li>b) β pleated sh</li><li>d) Coiled</li></ul>	eet
7)	acid.		·	amino
	a) Cysteine	b) Proline	c) Isoleucine	d) Tyrosine



	8)	<ul><li>Raffinose is a</li><li>a) Polysaccharide</li><li>c) Monosaccharide</li></ul>	•	Trisaccharide Disaccharide				
	9)	Splitting of sucrose yieldsa) Glucose-glucose c) Fructose -Fructose	,	Glucose-fructo				
	10)	Rickets is caused due to the deficiency a) Vit. A b) Vit. C		Vit. D	_ d)	Vit.	В	
2.	1) 2) 3) 4) 5)	swer <b>any five</b> of the following: Draw chemical structure of glycine and Differentiate between simple and compl Enlist the fat soluble vitamins and their Functions of hormones. What is oligosaccharide? Enlist examp Isoenzymes and coenzymes.	lex fur	lipids. ction.	S.			10
3.	•	Answer <b>any two</b> of following:  1) Explain in brief factors affecting on e 2) Explain quaternary structure of prote 3) Define vitamin. Discuss in brief its of Define enzyme. Give in detail classification.	ein. :las	sification.				6
4.	1) 2)	swer <b>any two</b> of the following: Discuss in detail enzyme immobilization Define polysaccharide. Describe in deta Justify peptide bond is plannar.		lomo and Hete	rop	olys	saccharide.	10
5.	1)	swer <b>any one</b> of the following: Explain in detail enzyme inhibition and a Describe in detail Hormone classification		-			-	10



Seat	
No.	

#### B.Sc. Entrepreneurship (Semester – II) (New) Examination, 2014 INDUSTRIAL BIOTECHNOLOGY (Paper – IV) Basics of Metabolism

of Metabolism			
Max. Marks : 50			
<b>compulsory</b> . <b>ht</b> indicate <b>full</b> marks. d diagrams <b>wherever</b> necessary.			
hoosing correct alternative : 10			
reaction occurring in a cell is called as			
m c) metabolism d) none			
potential biotransformations.			
lite b) active drug to active metabolite			
lite d) all of these			
b) Freitz Haber			
d) Hans Gieger			
gy are called reaction.			
nic c) both a) and b) d) none			
c) protists d) all			
living energy or organic carbon source for			
ohs c) chemotrophs d) all			
ergy compound is			
b) adenosine diphosphate			

c) adenosine monophosphate d) none of these

#### **SLR-EN-54**



	8)	Preparatory phase of glycolysis is/a	re		
		a) phosphorylation of glucose			
		b) isomerization of glucose 6-phos	phate to fruc	ctose 6-phosphate	
		c) phosphorylation of fructose-6-ph	osphate		
		d) all of these			
	9)	is a major regulato	ory enzyme o	of glycolytic pathway.	
		a) hexokinase	b) isom		
		c) dehydrogenase	, <u>.</u>	phofructokinase	
	10)				
		a) 4 b) 5	c) 7	d) 8	
2.	Wı	rite <b>any 5</b> of the following:			10
	1)	Define autotrophs.			
	2)	What is acute toxicity?			
	3)	What is LC <sub>50</sub> ?			
	4)	Define passive transport.			
	5)	Define biotransformation.			
	6)	Phase I of biotransformation.			
3	Α)	Write <b>any two</b> of the following:			6
Ο.	, ,,	Schematic representation of act	ive transpor	†	
		2) Significance of TCA cycle	ivo tranopor	•	
		3) Homolactic acid fermentation.			
	B)	Write in detail about 'EMP Pathway	,		4
4	\/\/ı	rite <b>any two</b> of the following :			10
•		Give a detail account on 'High energ	ny nhosnhat	e compounds'	10
	•	Write an essay on 'Photophosphory		o compoundo.	
	,	Describe in detail about 'componen		n transport chain'	
	J)	Describe in detail about componen	its of Ciectio	п папэроп опаш .	
5.	Wı	rite <b>any one</b> of the following:			10
	1)	Give a detail account on 'Biotransfo	rmation'.		
	2)	Write an essay on 'Tricarboxylic ac	cid cycle'.		