Seron I CBSGS Phoramoology 11

2014-15

QP Code: 10417

(3 Hours)

Total Marks: 70

	All questions are compulsory.			
(2) F	Figures to the right indicate full m	arks.		
(ii (iii (iv (v)	infections. Justify) Patients given sulphonamides are) Why do cancer cells evoke a wea) Explain mechanism of action o	e advis ak imi f iodi l cont	des as anti-thyroid agents. raceptives.	Ľ
	ch the following:-	1		3
(i) (ii) (iii)	Tetracyclins	(a) (b) (c) (d)	Adverse effects Ototoxicity Nephrotoxicity Haemochromatosis Thrombocytopenia	
. (a) Write	e short notes on any two of the fol	llowir	ng:-	8
(ii) (iii)	Extended spectrum penicillins mpt any one of the following: Justify the combination of trime	ction thopr	im and sulphamethoxazole	3
(i) (ii)	Explain the process of bone rem Explain mechanism of action of insulin on liver. Write a short note on Oxytocics.			8
Asset of Pag	er any one of the following:			3
(i) (ii)	Explain rationale of using vitami Write a note on propylthiouracil	n D v	vith calcium supplements.	
	pt any two of the following:— Classify anticoagulants. Write a and uses of heparins. Discuss the physiological role of anaemia. Classify anti-platelets. Add a note	folic a	note on mechanism of action acid and its role in treatment of	8

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4.

((b)	Answ	ver any one of the following:—	3
		(i)	Explain mechanism of action and role of Vitamin K	1
		(ii)	Write a brief note on fibrinoltics.	
14				
5. ((a)	Write	short notes on any two of the following:-	8
		(i)	Azole antifungals	
		(ii)	Drugs used in leprosy	
		(iii)	Macrolide antibiotics	
((b)	Answ	er any one of the following:-	3
		(i)	Discuss combination therapy of antimicrobials.	
		(ii)	Classify antimalarials and write a note on primaquine.	
20				
6. (a)	Answ	er any two of the following:	8
4 E		(i)	Write a short note on glucorticoids as immuno-suppresant agents.	
		(ii)	Classify oral anti-diabetic drugs. Explain mechanism of action and	
			uses of sulphonylureas.	
		(iii)	Describe treatment of hypothyroidism.	
(1	b) .	Write	short notes on any one of the following:-	3.
	•	(i)	Vinca alkaloids in cancer	
		(ii)	Metronidazole	
		. /	. 2	

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QP Code: 10419

(3 Hours)

[Total Marks: 70

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Ň	i.B.	 Question No. 1 is compulsory. Attempt any five questions from remaining six questions. Attempt in all six questions.
1.	An	(a) Define Marketing. (b) What are Patentable and Non-Patentable goods with examples. (c) Define Fixed Assets and Direct Tax. (d) Management is art as well as science. (e) Outline of Communication Procedure. (f) Define Balance Sheet. (g) What is planning and its advantages. (h) Differentiate between Marketing and Sales.
2.	(b)	Explain the role of major players in Pharmaceutical Industry. What are different stages in PLC. Why Market Segmentation is essential.
3.	(b)	Explain the concept of Six Sigma. Why Branding and Packaging have become important today. What is pricing and discuss different methods of pricing.
4.	(b)	Explain in detail Patent Registration Procedure. SWOT Analysis in context to Pharmaceutical Industry. Write Performa of Profit and Loss Account and Balance Sheet.
5.	(a)	Explain USFDA regulation and approval. OR
	(a)	Solve the Case Study:— The Balaji Hotel, located in a narrow lane in a busy locality in Hyderabad, which serves Andhra Style food has become very popular and has become very over crowded. The owner of the hotel Mr. Rajendra Reddy allowed his nephew to open a hotel in the same name in a nearby locality. The new hotel has a better building and very attractive seating arrangement. The food served in the new hotel is supplied from old hotel on a cost-plus basis. Within short while, the new hotel began to attract

(i) Analyse the case

20% higher than in the older one :--

- (ii) Why is the new hotel able to attract more customers.
- (iii) Do you suggest any future marketing strategy for the Balaji Hotel.

more customers than the original one, althouth the prices in the new hotel are about

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ustry in order to understand

	(c)	What are the different elements of Pharmaceutical Industry in order to understand its working uniqueness of Medical Product Marketing.	
6.		DPCO and its importance.	4
		Short note on BCG Matrix. Explain Maslow's theory of motivation.	3
7.	(a)	Why do conflict arises? How would you as a manager resolves conflict.	4
	(b)	Four elements of Marketing Mix.	-
	200	Short note on 4P's.	

(3 Hours)

[Total Marks: 70

1.	An	swer the	e following:-	
		(a)	Give the scope of pharmaceutical Biotechnology with relevance to	.]
		(b)	pharma industry. Define fermentation and name the organisms used for production of]
			penicillin.	
		(c)	Enlist the uses of Restriction Endonucleases.	1
		(d)	Write the thermocyclic pattern of PCR.	1
		(e)	Define Biosensor and enlist any two enzymes used for Biosensors.	1
		(f)	Explain factors affecting on pathogenicity and infection.	2
		(g)	What do you mean by ELISA?	2
		(h)	Write the any four applications of single cell protein.	1
		(i)	Draw neat labelled structure of antibody.	2
		(j)	Enlist any two examples of killed vaccines.	1
		(k)	What do you mean by attenuation?	1
		(1)	Give the names of any two approved biotech derived products.	1
2.	(a)	Write a	note on rDNA technology and explain ligases role in rDNA technology.	3
	(b)	Write a	note on cDNA library OR gene library (with its flow chart).	. 3
	(c)	Explain	n Enzyme immobilization with its advantages.	3
	(d)	Comm	ent on RIA with its Applications.	2
3.	(a)	Elabora	ate on Fermentor Design.	3
	(b)	Explain	n in detail clonal selection theory. OR	3
	(b)	Write th	ne flow chart for Monoclonal Antibody production with its applications.	3
			the classification of vaccines and explain subunit vaccine.	3
			neat labelled diagram of fermentor.	2
4.	(a)		'Totipotency' and give pharmaceutical applications of plant tissue	3
		culture.		
	(b)	Write a	note on Immobilization 'On' a support. OR	3
	(b)	Write a	note on Immobilization 'In' a support.	3
			uish between Active and Passive Immunity.	3
			uish between Salk and Sabin Polio Vaccine.	2
	()		TWYWAY!	

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5.	(a)	Define Hypersensitivity and explain Type I Hypersensitivity.	3
	(b)	Elaborate on DNA sequencing (any on method).	3
		OR	
	(b)	Write a short note on cosmid vector.	3
	(c)	Write in detailed fermentation process of dextran production.	3
	(d)	Draw the flow chart for insulin production by rDNA technology.	2
6.	(a)	Add a short note on BCG vaccine production.	3
	(b)	What do you mean by stem cell culture? Give its applications.	3
	(c)	Enlist types of fermentor and explain any on type in detail.	3
		OR	
	(c)	Explain in detail any three factors affecting on fermentation process.	3
	(d)	Comment on recent trends in vaccines.	2

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(3 Hours) [Total Marks: 70

	N.B.	(1) All questions are compulsory.(4) Figures to the right indicate marks.	
	(b) (c) (d)	 Give the functional classification of skin creams. Give an account of etiology of acne condition and name any two anti-acne agents. Write a note on cuticle softeners. What is mechanism of action of hair strengtheners? Discuss the formulation of dry shaving preparations. Give a typical formulation of mouthwash with role of each ingredient. 	2 3 2 2 3 3
×		Elaborate on sensitivity testing of hair dyes and eye makeup products. Discuss the aspects of formulation of cleansing lotions. OR	4
	, ,	Give the properties of face packs. How do the raw materials fulfill these properties? Elaborate on large scale manufacturing of shampoos along with equipments used.	3 4
	3. (a)	Classify various shaving preparations and discuss the formulation of lather shaving creams.	4
	, ,	Name eye makeup preparations. Describe in brief eye shadow formulation. Write a short note on herbal cosmetics. OR	3
	(c)	Explain the advantages of colours and antioxidants in cosmetics.	4
4	4. (a)	Enlist types of rouge and discuss any one type. OR	3
		Give an account of manufacturing of compact face powders. Write a short note on hair colorants.	3
	, ,	Describe the quality control tests and BIS standards for toothpastes.	4
5	. ,	Give classification of depilatories with examples. Write the mechanism of action of depilatories.	3
	(b)	Describe with the help of a neat diagram packaging of lipsticks. OR	4
		Enumerate the various tests on lipsticks.	4
	(0)	Discuss the sources and prevention of microbial contamination in cosmetics	1

6.	(a)	What is the mechanism of working of anti-perspirants? Give suitable examples.	3
		OR	
		Write a note on baby toiletries.	3
		Give the ideal properties of nail lacquers. Judicious mixture of solvents is required in nail lacquer formulations. Justify.	4
		What are the harmful effects of sunlight? How do suscreens protect the skin from these effects?	4

(21/2 Hours)

N.B.: 1. All Questions are compulsory

Total Marks: 70

2. Figures to right indicate full marks

(03)Q1. A. Give the IUPAC nomenclature of the following compounds

B. Define following terms: (i) pericyclic reaction (ii) retrosynthesis (iii) sterol (iv) E-factor (v) green

(02)C. Justify the statement: Imidazole is stronger base than pyridine

D. Draw general structure of estrogen. Explain the numbering, ring letters and stereochemistry of ring (03)

(01)E. Give any one reaction catalyzed by hydrotalcite

F. Which mode will you prefer for disconnection of following compound? Justify (01)

Q2. A. Explain the mechanism for (a) Skraup synthesis and (b) Reissert synthesis (04)

B. Complete the following reaction (01)

C. On standing, cyclopentadiene spontaneously forms dicyclopentadiene from which it can be regenerated by heating. What reaction has taken place (a) In the formation of dicyclopentadiene (b) In the (03)regeneration of cyclopentadiene?

(03)D. Explain catalytic oxidation reaction with two examples

Give an application of enantioselective catalysis. Explain with the help of example.

(04)Q3. A. Give mechanism for the following reactions: i) Radiszewskii reaction and ii) synthesis of pyrimidine using malonic ester

(04)B. Design the retrosynthetic scheme and synthesis for benzocaine (03)C. Explain the classical and catalytic route for amino acid ester synthesis

(02)Q4. A. Justify, Electrophilic substitution of pyrrole is preferred at α - over β -position

(06)B. Complete the reactions (any Six) n-BuLi

(a) Furan (b) Thiophene Pyridine

β-phenylethylamide

(d)

$$\frac{\text{NaNH}_2}{\text{C}}$$
(e) Quinoline

Indole

$$\frac{\text{SO}_3 \text{ in pyridine}}{\text{120°C}}$$

Imidazole

$$\frac{\text{H}_2\text{SO}_4/\text{SO}_3}{\text{100°C}}$$
(g)

C. Discuss the thermal cyclization of 2,4-hexadiene using all possible stereoisomers.

Q5. A. Complete the following reactions

i) 2,5-hexanedione

$$\frac{P_2O_5}{H_3PO_4}$$

ii) Thiophene + Ac₂O

$$\frac{H_3PO_4}{\text{C}}$$

2

iii) Pyrimidine B. Draw all possible products obtained from oxidation of isoquinoline C. Draw resonating structures for imidazole

(01)D. Complete the reaction and identify A,B,C and D (04)

Q6. A. Give suitable explanation for the following statements (any four)

(04)

(03)

(03)

Electrophilic substitution of furan is easier than benzene ii.

Imidazole is more acidic than pyrrole

iii. Protonation of nitrogen atom present in pyridine ring is easier than pyrrole

iv. Electrophilic substitution of isoquinoline takes place at 5th and 8th position

Thiophene does not undergo Diels Alder reaction

B. Predict the products for the following reactions with mechanism

(04)

C. Discuss the disconnection approach used for synthesis of 2-phenylethanol

(03)