# BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

# Department of Pharmacy (Pilani Campus)

# End Semester Examination May (OPEN BOOK)

Second Semester 2017-2018	PHA F344 - Natural Drugs	Max. Marks 25
Date: 7/5/2018	<b>Duration: 90 Minutes</b>	Weightage: 20%
Instruction:		
1. All questions are compulsory	I	
2. Figures to right in square bra	cket indicates maximum marks	
3. Write precise answers and us	se diagram wherever necessary	
4. Marks will be given for corre	ect answers (including spelling) wi	th proper justification
1. Write short note on the natur	al drug	[4]
i) Used as Anti-urolithiatic-		
ii) Used for relieving pain and	d inflammation-	
2. Leaves of trees fall and seeds become dormant? Explain this observation		servation [3]
3. Identify and discuss about a	natural product "X" which is a con	densation product of a [5]
basic unit "Y" that is obtaine	d from acetate and shikimate pathy	vays
4. Describe and discuss the imp	portance of any two families that be	ear flowers [4]
5. A crude sample needs to inve	estigated for drug discovery. Desig	n a suitable strategy
for this investigation		[4]
6. Discuss the following		
i. Plant division containing for	ossil members	[1.5]
ii. Formation of polyketide se	caffolds in plants	[1.5]
7. A crude drug samples has pu	ngent taste, aromatic odor and pos	ses scars on it. [2]

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### End Semester Examination May (CLOSED BOOK)

Second Semester 2017-2018	PHA F344 - Natural Drugs	Total Marks 25
Date: 7/5/2018	<b>Duration: 90 Minutes</b>	Weightage: 20%

#### Instruction:

- 1. Write precise answers and draw diagram &/or structures wherever appropriate
- 2. Write botanical names correctly, incorrect and miss spelt names will not be considered

1. Write short note on the	[5]
a. Drug used for treatment of jaundice b. Natural drug that bears carpels	
2. Explain the biosynthesis of Podophyllotoxin	
3. Explain the factors affecting migration in chromatography	
4. Answer the following questions in brief	
a. Two specific color reactions of mucilage	
b. Evening Primrose oil is rich source of which constituent	
c. What do you understand by the term biternate	
d. What is callose and Tylose?	
e. What is perigynous	
f. What are vein islet numbers for Cassia angustifolia and Cassia acutifolia	
5. Describe the Islamic contribution in the development of natural drugs	
6. Draw structures of the following constituents	
i. Quinine	
ii. Menthol	
iii. Carminic acid	
iv. Chlorogenic acid	
7. Write five types of polyphenol nutraceuticals along with their source.	