

Name:  
Enrolment No:



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Theory Examination, May 2021**

**Course:** Pharmacology-II

**Semester:** V

**Program:** B.Pharm

**Course Code:** BP 503T

**Time 03 hrs.**

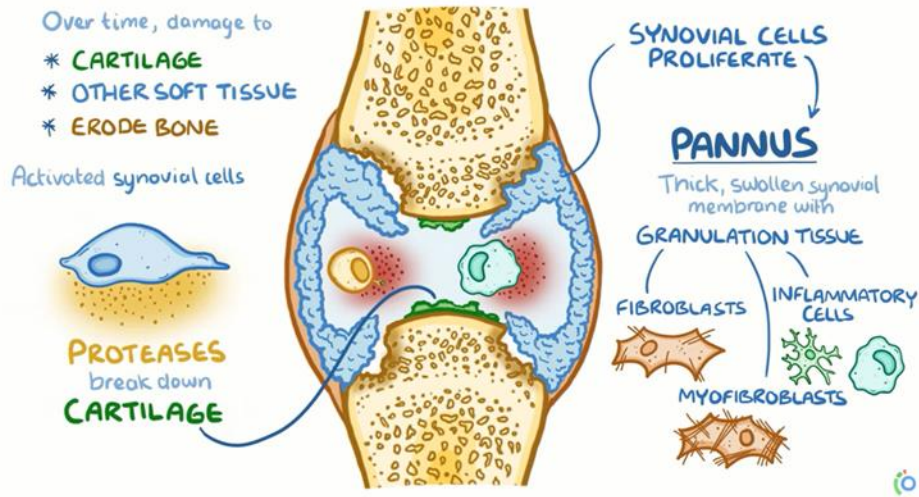
**Max. Marks: 75**

**Instructions: Read the Question Paper Carefully. All Sections are Compulsory**

**SECTION A**

S. No.	CO	Multiple Choice Questions/One line answer (1X20=20)	Marks
1	CO1	Agents that often causes vasoconstriction include all of the following except- a. Angiotensin II b. Methysergide c. PGF <sub>2</sub> $\alpha$ d. Prostacyclin	1
2	CO4	38 years old patient with high risk of coronary artery disease risk has hypertension, which of the following antihypertensive drug will be suitable as a first line treatment for this patient? a. ACE inhibitor b. Calcium channel blockers c. Beta adrenergic blockers d. Diuretics	1
3	CO4	Which of the drug can be given in renal failure safely? a. Saxagliptin b. Sitagliptin c. Vildagliptin d. Linagliptin	1
4	CO2	The daily dietary requirement of vitamin B <sub>12</sub> by an adult is- a. 1-3 $\mu$ g b. 50-100 $\mu$ g c. 10-30 $\mu$ g d. 1-3 mg	1
5	CO1	Angiotensin II causes rise in blood pressure by a. Direct vasoconstriction b. Releasing adrenaline from adrenal medula c. Increasing central sympathetic tone d. All of the above	1
6	CO4	An elderly hypertensive has diabetes mellitus and bilateral renal artery stenosis. The best management is- a. Enalapril b. Verapamil c. Beta-blockers	1

		d. Thiazides	
7	CO2	Fastest receptor mediated action is through- a. Cell membrane receptors b. Intrinsic ion channels c. Enzyme linked receptors d. Intracellular receptors	1
8	CO2	Which of the following decreases thyroid hormone on a long term basis a. T4 b. I <sup>131</sup> c. Calcitriol d. Fluorouracil	1
9	CO1	Oxytocin causes all except- a. Lactogenesis b. Milk ejection c. Contraction of uterine muscle d. Myoepithelial cell contraction	1
10	CO4	Warfarin induced skin necrosis is seen in- a. Protein C deficiency b. Protein S deficiency c. Hemophillia d. Antithrombin III deficiency	1
11	CO1	Write two key symptoms of gout.	1
12	CO3	Define three point bioassay.	1
13	CO1	What are target receptors for migraine?	1
14	CO1	What is the difference between hormones and autacoids?	1
15	CO2	Write the mechanism of aspirin as blood thinning agent.	1
16	CO4	Can lignocaine be used as antiarrhythmic drug? Justify your answer in one line.	1
17	CO1	What are two potential side effects for sulfonylureas?	1
18	CO2	Write two key functions of prolactin	1
19	CO3	Name the disease cause by Adrenal insufficiency	1
20	CO3	Congenital deficiency of T4 & T3 is called as _____	1
<b>SECTION B</b>			
<b>Attempt Any two out of three , 10 marks each</b>			
<b>Q2</b>			<b>20</b>
1	CO1, CO4	The image below describes the pathophysiology of a disease.	2+3+5



- Identify the disease associated with the image
- Discuss the factors involved in pathophysiology of disease
- Classify the drugs used for the treatment or management of disease

2	CO3	Explain the mechanism involved in inhibition of renin-angiotensin system with example (drugs used).	10 marks
3	CO1	Describe the classification (with examples) and mechanism of action of anti-hyperlipidemic drugs	5+5 marks

### SECTION C

Attempt any 7 out of 9 (7X5=35)

			<b>35</b>
1	CO4	<ol style="list-style-type: none"> <li>Your 60 years old male hypertensive patient who had a myocardial infarction a year ago is now showing signs of CHF. You therefore add spironolactone to his drug regimen. What side effect should you warn him about?</li> <li>Is insulin only available as injections? Justify your answer.</li> </ol>	3+2
2	CO2	Classify anticoagulants with examples	5 marks
3	CO3	A new born has blood gas and hemodynamic problems because of patent (open) ductus arteriosus. Suggest the drug to be administered for closure of ductus with justification.	5 marks
4	CO4	Discuss the physiological role and use of hormones secreted from posterior pituitary gland.	5 marks
5	CO4	Describe bioassay of insulin.	5 marks

6	CO3	Write a note on high ceiling diuretics and their mechanism of action	5 marks
7	CO2	Explain the role of calcium channel blocker in hypertension.	5 marks
8	CO3	Describe bioassay of histamine	5 marks
9	CO2	Discuss mechanism, use and side effects of selective estrogen receptor modulators (SERMs)	5 marks
			<b>35</b>
		<b>Total</b>	<b>75</b>