

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
School of Health Sciences

END Semester Examination (ODD SEM) December 2021

Course: Physiopathology in Nutrition Related Disorders

Semester: III

Program: BSc FND

Course Code: HSCC2009

Time: 03 hrs.

Max. Marks: 100

Instructions: Attempt all Sections.

SECTION A

S. No.	MCQs or True and False or Fill in the blanks or one line answer	30 Marks	CO
1	Deficiency of which vitamin has been associated with enamel defects and increased risk of dental caries? a. Vitamin A b. Folic acid c. Vitamin C d. Vitamin D	1.5	CO1
2	GERD is the back flow of stomach acid into the esophagus. A. True B. False	1.5	CO2
3	The autoimmunity in “gluten-sensitive enteropathy” involves plasma cells that produce immunoglobulins,and	1.5	CO3
4	“Dermatitis Herpetiformis” is the clinical symptom of a. Diabetes b. Gluten induced enteropathy c. Lactose intolerance d. Peptic ulcer	1.5	CO1
5	The risk factors for pancreatic cancer includes all except: a. Diabetes mellitus b. Hereditary predisposition c. Smoking d. Acute pancreatitis	1.5	CO2
6	Which one of the following statements regarding “copper metabolism” is false? a. The average diet provides 2-5 mg/day (almost 3 times the recommended intake). b. Most dietary copper ends up being excreted. c. Copper is absorbed mainly in the terminal ileum d. The liver utilizes some copper for metabolic needs and excretes excess copper into bile.	1.5	CO3

7	<p>Which one of the following statements regarding laboratory diagnoses of Wilson's disease is true?</p> <ol style="list-style-type: none"> Serum caeruloplasmin level is low <20 mg/dL Hepatic copper content is high > or =250 µg/g dry weight. (Normal < 50 µg/g). Total serum copper (which includes copper incorporated in caeruloplasmin) in WD is usually decreased in proportion to the decreased caeruloplasmin in the circulation but serum noncaeruloplasmin-bound copper concentration is elevated above 25 µg/dL in most All of the above 	1.5	CO1
8	<p>People with GERD should avoid foods and beverages such as...</p> <ol style="list-style-type: none"> Mint, tomatoes and mustard Caffeine, alcohol and pepper Orange grapefruit and vinegar All of the above 	1.5	CO2
9	<p>The thyroid gland produces hormones that regulates.....</p> <ol style="list-style-type: none"> Metabolism Temperature Blood pressure Digestion 	1.5	CO3
10	<p>Weight loss, rapid heart rate, and heat sensitivity are likely symptoms of.....</p> <ol style="list-style-type: none"> Hypothyroidism Hyperthyroidism Thyroid cancer All of the above 	1.5	CO1
11	<p>Gastroparesis is caused by damage or impairment to the nerve that is connected to the muscles of the stomach. What is this nerve called?</p> <ol style="list-style-type: none"> Vagus nerve Trigeminal nerve Frontal nerve Digestive nerve 	1.5	CO2
12	<p>Which of the following etiological factor is responsible for “gall stone”?</p> <ol style="list-style-type: none"> Obesity Sudden loss of weight Both a and b None of the above 	1.5	CO3
13	<p>Which of the following term best describe “Hepatitis”?</p> <ol style="list-style-type: none"> inflammation of the liver cancer of the liver liver failure none of the above 	1.5	CO1
14	<p>Gastroparesis is caused by damage or impairment to the nerve that is connected to the muscles of the stomach. What is this nerve called?</p> <ol style="list-style-type: none"> Vagus nerve Trigeminal nerve Frontal nerve Digestive nerve 	1.5	CO2
15	<p>A positive family history and excess insulin secretion by the pancreas are potential cause of polycystic ovarian syndrome.</p>	1.5	CO3

	A. True B. False		
16	Rheumatoid arthritis is an inherited disorder. A. True B. False	1.5	CO1
17	Symptoms of fibromyalgia includes..... a. widespread pain b. fatigue c. stiffness d. all of the above	1.5	CO2
18	Mention any three causes of Cholecystitis.	1.5	CO3
19	What are the three important causes of Cushing's syndrome?	1.5	CO1
20	Which of the following has been associated with peptic ulcers? a. <i>Helicobacter pylori</i> , a gram negative bacterium b. <i>H. pylori</i> , a gram positive bacterium c. <i>Campylobacter pylori</i> , a gram positive fungus d. <i>Campylobacter pylori</i> , a gram negative fungus	1.5	CO2
SECTION B			
Q	Short Answer Type Question (5 marks each) Scan and Upload (word limit not more than 80 words per answer)	20 Marks	CO
1	Write important difference between various serotypes of Hepatitis.	5	CO1
2	Loss of consciousness and coma are the stage four symptom of "Hepatic encephalopathy". What diagnostic methods are used in this disease?	5	CO2
3	Define "Gluten Induced Enteropathy"? Discuss the role of immunoglobulin in this disease.	2+3	CO2
4	Hyperandrogenism and insulin resistance are the symptoms of which disease? Discuss its pathophysiology.	1+4	CO1
SECTION C 30 marks			
Q	Two case studies 15 marks each subsections	30 Marks	CO
1	Case Study 1 A 42-year-old man has been seen by his family physician for a 5 years history of "heartburn", he has been intermittently taking Pantoprazole–proton pump inhibitor, with some relief. An upper endoscopic examination that was performed recently revealed some reddish discoloration and friability of the lower esophageal region. A biopsy was performed, and the microscopic examination revealed Columnar cells containing goblet cells. a. Identify the disease? (1 mark) b. What is a long-term complication of this disease? (3 marks) c. What are the risk factors associated with this disease? (3 marks) d. What is the most likely mechanism of this process? (3 marks) e. Suggest a diet plan for this disease. (5 marks)	15	CO3, CO5,
2	Case Study 2	15	CO3, CO5,

	<p>P.A. is a 52-year old man who presented with a 2-week history of polyuria, polydipsia, polyphagia, weight loss, fatigue, and blurred vision. A random glucose test performed 1 day before presentation was 352 mg/dl. The patient denied any symptoms of numbness, tingling in hands or feet, dysuria, chest pain, cough or fevers.</p> <ol style="list-style-type: none"> Identify the disease? (1 mark) What is a long-term complication of this disease? (2 marks) Explain the pathophysiology of this disease. (5 marks) Mention the diagnostic methods used for its detection. (2 marks) Suggest a diet plan for this disease. (5 marks) 		
	SECTION- D 20 marks		
Q	Long Answer type Questions Scan and Upload (10 marks each) word limit for 8 marks not more than 300 words, for 6 marks not more than 250 words.	20 Marks	CO
1	<p>Proto-oncogenes and tumour suppressor genes play an important role in cell cycle. Explain their role in “Pancreatic Cancer”. What are the symptoms associated with this disease? (6+4)</p> <p style="text-align: center;">OR</p> <p>Explain the pathophysiology and clinical symptoms of “Cholecystitis”.</p>	10	CO4
2	<p>The primary symptoms and findings associated with “Ulcerative Colitis” include (2marks). Discuss the pathophysiology of Ulcerative Colitis (8 marks).</p> <p style="text-align: center;">OR</p> <p>Explain the role of insulin in regulating metabolism. Discuss the etiological factors responsible in causing Type I diabetes. (5+5)</p>	10	CO4