

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2022
(Third Semester)
Branch – CLINICAL NUTRITION & DIETETICS

NUTRACEUTICALS AND DRUG - NUTRIENT INTERACTION

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

1. Which one of the following functional ingredients improves gastrointestinal health and also calcium absorption?
a) Fructo-Oligosaccharides b) Daidzein c) Sterols d) PUFA
2. Find out the appropriate alimentary route of administration when passage of drugs through liver is minimized
a) Oral b) Transdermal c) Rectal d) Intraduodenal
3. Which of the following is not usually considered for drug-nutrient interactions when using diuretics?
a) Vitamin D b) Vitamin C c) Potassium d) Vitamin B6
4. Name the drug known to cause iron deficiency through chronic blood loss.
a) Aspirin b) Antibiotics c) Diuretic d) Insulin
5. Choose which among the following is the common and dose related side effect of salbutamol.
a) Decrease in blood pressure b) Muscle tremor
c) Central nervous system stimulation d) Hyperglycaemia
6. When a person takes antacid regularly which of the following nutrient absorption is reduced?
a) Carbohydrate b) Folate c) Calcium d) Fat
7. Identify which of the following cell damage occurs due to chemo drug.
a) Heart b) Kidney c) Lungs d) All the above
8. State the nutrient that should be vigorously monitored in renal failure patient that get lost during treatment.
a) Electrolyte b) Protein c) Vitamin d) Carbohydrate
9. State the predominant influence of parenteral nutrition on drug action.
a) Glucose control b) PEM
c) Metabolism d) Electrolyte
10. Name the term referred to the microorganisms that have a beneficial effect on the host intestinal microbial balance.
a) Semibiotics b) Abiotic factors
c) Probiotics d) Non-probiotics

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 7 = 35)

11. a) Classify Nutraceuticals and write about the functional component in food.

OR

Cont...

b) Discuss about the various routes of drug administration and explain about elimination of the drug.

12. a) Explain in detail about the mechanism of drug nutrient interaction.

OR

b) Show about the dietary supplement interactions with drug

13. a) Sketch how diuretics affects the nutritional status of an individual.

OR

b) Recommend the drugs for patient suffering from ulcer and explain how does it affect the nutritional status.

14. a) Evaluate about the drug nutrient interaction in transplantation patient.

OR

b) Analyze how immune system response to drug nutrient interaction.

15. a) Explain about the role of probiotics in tube feeding.

OR

b) Discuss about interaction of commercial formula with drug in parenteral nutrition

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16. Analyze about the mechanism of action of drug in detail.

17. Enumerate about the interaction between nutrient and nutrient and its effect.

18. Elucidate various effect of cardiac drug on nutritional status of the patient

19. Interpret about the effect of drug and nutrient interaction among cancer patient.

20. Interpret the importance of special diet with respect to enteral feeding.

Z-Z-Z

END