

Q. P. Code: 31924

[Time: 2.30 Hours]

[Marks: 75]

Please check whether you have got the right question paper.

- N.B:
1. All the questions are compulsory. Choice is internal.
 2. Figures to the right indicate full marks.
 3. All questions carry equal marks.
 4. Draw flowcharts /diagrams wherever necessary.

- Q.1 A) **Choose the MOST APPROPRIATE answer (any three):** **03**
- i) Human body needs fats and carbohydrates because _____.
 a) they give the body energy
 b) they help carry out metabolic reactions
 c) they withdraw heat from the body
 - ii) About half of balanced diet should NOT be made up of _____.
 a) grains and vegetables
 b) fruits and milk
 c) fats and sugars
 - iii) Milk is an excellent source of _____.
 a) calcium (b) Vitamin K (c) Vitamin D
 - iv) Wrap containing 15grams carbohydrates, 5 grams fats and 5 grams proteins will provide after metabolism ____ kcal energy
 (a) 152 kcal (b) 125 kcal (c) 152 kcal
 - v) _____ is needed for making hormones, healthier skin, and to make cell membranes
 a) Fats (b) Carbohydrate (c) Fiber
 - vi) _____ beverage has high level of fat, medium level of sugar and medium level of proteins
 a) Milk (b) Coffee with cream (c) Lemonade
- B) **Define and explain the term any one:** **02**
- i) Micronutrient
 - ii) Waist -Hip ratio
- C) **Answer any one:** **04**
- i) Nutritional significance of iron and potassium
 - ii) BMR
- D) **Answer the following any one:** **06**
- i) Elaborate on two indices to measure protein quality
 - ii) Discuss the importance of daily intake of fibres in the diet
- Q.2) A) **Choose the MOST APPROPRIATE answer (any three):** **03**
- i) _____reverses action of Grehlin.
 (a) Leptin (b) Resistin (c) TNF a
 - ii) A person advised a low-cholesterol diet should NOT be served ---
 a) oats (b) eggs (c) barley

Q. P. Code: 31924

iii) _____ can be caused due to an immunological disorder.
a) Obstructive jaundice (b) Diabetes (c) Peptic ulcer

iv) _____ is an example of a food high in carbohydrates
a) Milk b) Bananas c) Meat

v) Food poor in direct sugars is advised for patients of _____
a) diabetes b) hypertension c) ulcers

vi) Patients with liver infections should avoid _____
a) carbohydrates b) fats (c) proteins

B) Define and explain any one:

i) Jaundice

ii) *H. pylori* infection

02

C) Suggest diets for anyone of the below mentioned disorders:

(i) Obstructive Jaundice (ii) Peptic ulcers

04

D) Attempt anyone of the following:

i) Leena always felt low in energy and her breath had a fruity odour. She was recommended to take help of a dietician. Comment on the constituents of her diet.

ii) Justify: Diet management is the first step to controlling Obesity

06

Q.3) A) Choose the MOST APPROPRIATE answer (any three):

03

i) The excretion of an acidic drug will be enhanced by consuming _____
a) lemon Juice b) sodium bicarbonate c) water

ii) For oral dosages, the bioavailability is assumed to be _____
a) = 100% (b) > 100% (c) < 100%

iii) _____ drug can produce a therapeutic response
a) Bound to plasma albumin
b) Not absorbed from the GI tract
c) Unbound to plasma proteins

iv) _____ would receive the drug the slowest.
a) Liver (b) Heart (c) Adipose cells

v) _____ is the most important for movement through capillary walls
a) Molecular size
b) Lipid solubility
c) pH

vi) _____ is considered to be part of the pharmaceutical phase of drug
a) Dissolution
b) Absorption
c) Formulation

B) Answer in brief anyone of the following:

02

i) How will the concentration of a drug vary after 15 min of administering ampicillin preparation by the intravenous and oral routes.

Q. P. Code: 31924

ii) Explain first pass metabolism

C) Write a note on anyone of the following:

04

i) Clinical trials

ii) Renal route of drug excretion

D) Elaborate on anyone:

06

i) Discuss the various stages of a medicine getting approval to be marketed in Indian market.

Elaborate on absorption of drug via GIT and parenteral routes of drug Administration

Q.4) A) Choose the MOST APPROPRIATE answer (any three):

03

i) A _____ agonist can produce maximal effects and has high efficacy.

a) partial

b) full

c) mixed

ii) Irreversible interactions of an antagonist with a receptor is due to _____ bonds

a) covalent

b) hydrogen

c) ionic

iii) cAMP is the secondary messenger of a _____ protein coupled receptor

a) A

b) G

c) P

iv) _____ inhibits cyclooxygenase activity in platelets

a) Aspirin b) Propranolol (c) Sulphonamide

v) Therapeutic index is _____

a) A ratio used to evaluate the safety and usefulness of a drug for indication

b) A ratio used to evaluate the effectiveness of a drug

c) A ratio used to evaluate the bioavailability of a drug

vi) _____ is a measure of drugs efficacy.

a) LD₅₀

b) LD₉₉

(c) ED₅₀

B) Define and explain the role in pharmacology of anyone:

02

i) Placebo

ii) Chelating agent

C) Write short notes on anyone of the following:

04

i) Action of receptor mediated drugs

ii) Ibuprofen

D) Explain the mechanism of action and the adverse reactions of anyone drug:

06

i) Penicillin

ii) Propranolol

Q.5) A) Write a brief note on anyone of the following:

03

(i) PEM (ii) RQ

Q. P. Code: 31924

B) Answer any one of the following:

03

- i) Comment on the consumption of pomegranate patients suffering from diabetes & peptic ulcer
- ii) Write a brief note on diet for a hypertensive.

C) In brief answer on anyone of the following:

03

- i) Phase II of biotransformation
- ii) Therapeutic drug monitoring

D) Answer anyone of the following:

03

- i) Describe the pharmacodynamics of Salicylates
- ii) With suitable examples explain role of chelating agents as drugs.

E) State true or false: (any three)

03

- i) BMR is indirectly related to body surface area
- ii) 50% of diet should comprised of proteins
- iii) Cheesy dips are not advisable for patients suffering from Jaundice.
- iv) Drugs with narrow therapeutic windows tend to be toxic.
- v) Drugs with higher molecular weight have slower absorption
- vi) Aspirin is not advised to be taken on an empty stomach.
