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M.SC. IN NUTRITION& FOOD SCIENCE
EXAMINATION :NOVEMBER-2022
FIRST SEMESTER
Sub. : Classification of Aahariya Dravya & Clinical Bio-Chemistry (M.Sc. CB-114)

Date: 25/11/2022 **Total marks: 60** **Time: 10.00 am to 12.30 pm**

Instructions:

1) All questions are compulsory. 2) Figures to the right indicate full marks.

SECTION A

Q. 1 Select the correct alternative. **(5)**

1) There are …… type of Dravya according to Rasa.
   a) 4 b) 5
   c) 6 d) 7
2) Brihana (Nourishment) is karma of ….. Rasa.
   a) Amla b) Katu
   c) Madhura d) Lavana
3) Feature of Amla vipaka is ……
   a) constipation b) easy stool passage
   c) both a & b d) None
4) There are …….. pairs of Guna.
   a) 10 b) 20
   c) 18 d) 9
5) Karma / function of Ushna guna is ……
   a) sweating b) stiffness
   c) hardness d) lightness

Q. 2 Answer the following questions. (Any Two) **(10)**

1) Explain Sheeta (cold) Guna with example.
2) Explain Pachan karma (digestive function) with help of definition, function & example.
3) Write about types of Dravya according to its origin.

Q. 3 Answer any 1 of the following. **(15)**

1) Write in detail about six types of Rasa with help of their composition, functions and examples.
2) Explain concept of karma and write about types.

SECTION B

Q. 1 Select the correct alternative. **(5)**

1) Which among the following is not a BCAA ?
   a) leucine b) isoleucine
   c) lysine d) valine

2) Total energy produced by 1 AcetylcoA molecule in kreb's cycle is …….
   a) 24 ATP b) 12 ATP
   c) 36 ATP d) 10 ATP
3) Major substrates for gluconeogenesis are …..
   a) propionate b) lactate
   c) pyruvate d) all of the above
4) The amino acid tyrosine is used in the syntheris of ……
   a) dopamine b) thyroxine
   c) melanin d) all of the above
5) ……. Contain highest amount of protein in their structure.
   a) HDL b) LDL
   c) VLDL d) Chylomicron

Q. 2 Answer the following questions. (Any One) **(15)**

1) What is krebs cycle ? Explain & give it's importance.
2) Explain Beta – oxidation of fatty acids. Also give the significance of carnitine in fatty acid metabolism

Q. 3 Write a Short note. (Any two) **(10)**

1) Define hormones & give their types along with their major functions.
2) Transamination
3) Phenylketonuria (PKU)