## TILAK MAHARASHTRAVIDYAPEETH, PUNE

### M.SC. IN NUTRITION & FOOD SCIENCE

# **EXAMINATION : DECEMBER 2023 FOURTH SEMESTER**

Sub.: Sports Nutrition & Fitness Nutrition (M.Sc. CB-413)

Date	: 07/12/2023	Total marks: 60	Time: 2.00 pm to 4.30 pm
Instr	ructions: 1) All questions are co 2) Figures to the right		
Q. 1	Select the correct alternative.		(10)
	1) Which among the following is the purest form of whey?		
	a) Whey concentrate	b) Whey isolate	
	c) Raw whey	d) Whey hydrolysa	ate
	2) BCAAs include		
	a) Isoleucine	b) Valine	
	c) Lysine	d) Both a & b	
	3) helps in fat metabolism.		
	a) Carnitine	b) Choline	
	c) Creatine	d) Both a & b	
	4) Prolonged use of carbohydrate loading can lead to		
	a) Hypertension	b) Blood thickening	ng
	c) Type II DM	d) All of the abov	re
	5) is aerobic form of sp	port.	
	a) swimming	b) basketball	
	c) football	d) high jump	
6) In creatine loading phase, of c competition.		of creatine is suggested a week p	prior to the
	a) 50g/d	b) 10g/d	
	c) 20g/d	d) 70g/d	
	7) is a sports psychology technique that helps an athlete to cope with the intense pressure that comes from competition.		
	a) Anxiety relief technic	que b) Rehabilitation	
	c) Mental toughness d) Motivation & team building 8) Blood doping is done with the help of		am building
	a) EPO	b) Blood transfus	ion
	c) HIF Factor	d) All of the abov	re
	9) refers to elevated blood sugar levels or above 180 mg/dL.		
	a) Hyperglycemia	b) Hypoglycemia	
	c) Isoglycemia	d) None of the ab	ove
10) Excess caffeine intake can lead to			
	a) Insomnia	b) Arrhythmia	
	c) Tachycardia	d) All of the abov	re

### Q. 2 Answer the following questions. (Any Two)

(30)

- 1) What are sports drinks? Give its types.
  Also, elaborate on the importance of hydration in athletes.
- 2) Give the nutritional requirements of a power (non-endurance) athlete.
- 3) Plan a day's diet (pre-season) for a 27 year old badminton player; height 6'2; weight 76; Diet- Non Vegetarian (No need of calculations).

  Training timings: 5am-6:30 am & 6pm to 7:30 pm.

  Also, suggest dietary guidelines for the same.

#### Q. 3. Write a Short Note (Any Four)

(20)

- 1) Ergogenic Aids
- 2) Importance of supplementation in athletes
- 3) Benefits of a personalized diet to athlete
- 4) Sports Injuries
- 5) Types of Whey supplementation
- 6) Benefits of sports psychology