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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

Branch - CLINICAL NUTRITION AND DIETETICS

MAJOR ELECTIVE COURSE – I: FITNESS AND SPORTS NUTRITION

	FITTESS AND	010	KISNUIKIION	
Time:	Three Hours		N	Maximum: 50 Marks
	Answe	r AL	A (5 Marks) L questions EQUAL marks	$(5 \times 1 = 5)$
Which one of the following is a skill related component of physical				sical fitness?
	(i) Flexibility (iii) Muscle endurance	, ,	Power Body composition	
2	Which of following represents the muscle?	e gre	atest source of glucose for	or use by the
	(i) Blood glucose (iii) Muscle glycogen	-	Liver glycogen Intramuscular triglyceri	des
3	Choose a potential side effect of i (i) Muscle cramping (iii) Water retention	(ii)	ficient daily carbohydrat Impaired glycogen repl Diarrhea	
4	What is the primary characteristic (i) Compulsive binging (iii) Regular menses	(ii)		
5	Which one of the following is the determination? (i) Hydrostatic weighing (iii) Plethysmography	(ii)	Bioelectrical impedance Dual-energy X-ray abso	e analysis
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
6 a	State the association between p	physic	cal fitness and wellness.	
b	Discuss the objectives of physical fitness.			
7 a	Classify the types of exercise with a suitable example. OR			
b	Illustrate the mobilization of fa	at stor	es during exercise.	
8 a	Explain the role of carbohyd events.	lrate	loading on the perform	nance of endurance
b	OR Discuss the role of ergogenic a	ids ir	sports.	

9 a Recommend some personalized approaches to improve the nutritional issues faced by the athletic adolescents.

OR

- b Discuss on female athletic triad.
- 10 a Explain the principles of diet during and after exercise.

OR

b Analyze the importance of incorporating both aerobic and anaerobic exercises in gymnastic training.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Elucidate the domains of fitness in detail.

OR

- b Recommend motivational strategies to stay on track and enhance the physical fitness.
- 12 a Enumerate the muscular and cardiopulmonary adaptations to exercise.

OR

- b Compare the aerobic and anaerobic energy system at rest and during exercise.
- 13 a Evaluate the importance of fluid and electrolytes before and during exercise regimen. What types of sports drinks available during and after a sports event?

OR

- b Define pre-event meal (2-4 hours pre-event). Prepare a menu according to the goals of pre-event meal.
- 14 a Analyze the role of disordered eating pattern on the menstrual dysfunction.

OR

- b Classify the eating disorders. Discuss the impact of eating disorders on sports performance.
- 15 a Plan a diet for a female athlete suffering from GI stress and preparing for an endurance athletic event. Describe the changes in diet for pre-event and post-event meal.

OR

b Classify the methods used for assessing body composition of a sports person.

Z-Z-Z

END