

SUPPLEMENTARY EXAMINATION

PROGRAMME : HUMAN MOVEMENT STUDIES

MODULE NAME

: MEASUREMENT AND EVALUATION

MODULE CODE

: HMS2BB1 & MBK1B02

DATE

: DECEMBER 2014

DURATION

: 1 HOUR

TOTAL MARKS

: 50

EXAMINER

: PROF L LATEGAN

MODERATOR : MR AJJ LOMBARD

NUMBER OF PAGES : THIS PAPER CONSISTS OF 3 PAGES

INSTRUCTIONS TO CANDIDATES:

MAKE SURE THAT YOU HAVE THE COMPLETE PAPER.

ANSWER ALL THE QUESTIONS.

QUES	STION 1	[3]
Explai "EVAL	in the different terms: "TESTING", "OBJECTIVITY" and LUATION" and illustrate each answer with an applicable example.	
QUES	STION 2	[5].
List te testing	en (10) factors to consider when planning to conduct fitness	
QUES	STION 3	[6]
evalua	nale long distance runner underwent a body composition ition. The following results were recorded: Age: 29; Height: 160 /eight: 55 kg; Fat percentage: 15%.	
3.1 3.2 3.3	Calculate and interpret her body mass index. [2] Calculate her ideal competition weight at a fat% of 11%. [2] She already trains 4 hours per day; how do you suggest she reaches her ideal weight? [2]	
QUES	TION 4	[14]
4.1	Explain the following terms: i. ROM [1] ii. BMI [1] iii. VO _{2max} [2]	
4.2	Explain in detail how you would perform the T-test test.	[5]
4.3	A 50-year old male weighing 88 kg completes the 1.6 km walk in 14 minutes and 15 seconds. His heart rate at the end of the walk is 142 bpm. Calculate his VO _{2max} if: [4]	
	VO _{2max} = 132.853 - (0.0769 x BW) - ((0.3877 x age) + (6.315 x gender) - (3.2469 x time) - (0.1565 x HR)	
4.4	Is he aerobically fit or not? [1]	
QUEST	<u>FION 5</u>	[5]
_ist_the each co	e 10 main fitness components and give an applicable test for omponent.	

QUESTION 6

Identify three (3) different types of sports where good proprioception is required to win (it is not merely enough to list 5 different athletics events for example).

QUESTION 7

[14]

Use the table below to do the following:

- 5.1 Calculate the mean. [2]
- 5.2 Construct a Normal Distribution Graph if the variance is 9%. [5]
- 5.3 Construct a histogram. [7]

Fat percentage (%) scores for female athletes:

20	22	12	10	15
25	12	20	20	20
23	13	15	8	15
15	14	19	.12	19
17	17	29	16	18
19	20	18	17	27
15	20	17	12	16
20	15	16	14	15
29	20	13	16	14
21	25	10	15	12
10	23	12	20	13
14	12	23	15	18
15	13	17	23	19
_16	28	30	33	32
15	16	15	15	29

TOTAL: 50