S

SUPERVISOR'S USE ONLY

93501A



TOP SCHOLAR NZOA

Scholarship 2013 Physical Education

MANA TOHU MĂTAURANGA O AOTEAROA

9.30 am Wednesday 13 November 2013 Time allowed: Three hours Total marks: 24

ANSWER BOOKLET

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

Use this booklet to answer the THREE questions you have chosen from Question Booklet 93501Q.

Each question is worth 8 marks.

Start each answer on a NEW page. Carefully number each answer.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–20 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Since time immenorial, the majority of athlete have been willing use only to do anything, and take anything short of killing themselves, to R improve athletic performance" (Hardd Connetty). There are records that show Roman gladiators eating annual hearts in order to gain that animal's strength, of Ancient Olympians using ballucinogers mushrooms to try to gain the advartage and in early modern sport, orthletes took various concretions of catterine, alrohol and opium in training and for competition. What then, is so bad about using anything at one's disposal in order to gent the upperhad. Isn't that what sport is all about - wining? Today, we kind ourselves in an unconfortable limbo where a widespread use of barred substaces leads to "dostroyed athletic careers" (Shucter, 2012) 1 and the playing keld seems to be anything but agual. This essay Will recognies that there are a wealth of issues surrounding this debate, and will attempt to shed some light on the topic. 1

to the purposes of this essay, the Oxford English Dichbang definition of drugs will be assumed? a medicine or substance that when ingested or otherwise introduced into the body has physiological offects. This will exclude other techniques, barned or otherwise, such a oxygen texts and audio non-chemical blood doping.

One of the highest profile professional sportsknown for doping is cycling, and its most famous cheat is andoubtably Lace Arnshong - a cyclist who wen 7 consecutive Tour de trance titles, overcame testicular cancer and was a role model to many through his Livestoong charity. When Oprah

Brown the sport she asked the should have been possible to un without doping?" - "Not in that generation." He viewed If as a "level playing held". And is if that what we unit crack sport to be? Sport is a valued human practice inherantly concerned with the moral (Arnold) and so we desire Lairness. In Was Armstrong merely a terribly unfortunate victim of cycling on the at the time? Many, many people of lost a career and \$10 million a year from Nike alove in endocements whom he was taken down, and yet he was merely a product of his time. In his 2012 608h The Secret Race, Tyler Hamilton a Korener teamwate of Arantrong, set out to quash the misconception that doping you for "larry people" - he said that the use of EPO (erythropoietm, a chemical blood doping process stimulating red blood cell production and increasing aerobic capacity) allowed cyclists to "suffermore" and ex 'train harder than he was thought passible. Thres nothing lazy about it. New Zealander Stephen Swart, also a Former teammate of Armstrong, said that he left "unconfortable" with the drig culture in the tean when he contessed in 2004 - his widerce helped take down Armstrong. And the luce of the advantages doping provides is almost irrestistable, cyclist David Millar embodied this whenhe distant expressed the sentiment "How much more could I do it I were doped?" And with the commodification of sport those days, we, the general public, want to see ispectaclor of human performance that doping could provide. It

In recent years, gone theory has been used to show that unless the reward Br success were reduced unearonably or the probability of being caught increased hugely, athleter could be expected to continue to drug cheat. Why then, shouldn't we make it legal? Imagine the excitement the next Olympient Games would offer - courtlets records being traffered as super human usured as with their feats - it night take sport to a whole new level. Young people's sporting horoes would almost be superheroes, not "destroyed by "illogical and immoral drug testing". And isn't sport about pushing the linits of human performance? (soit it irreasonable that in beday's some this day time of the medicalisation of society, that we hold our athletes up to Fer higher standards than we do ourselves? And how much money Doping Agency and the the? If the majority of the danger of drugs is in that they are made to be see undetectable and dealt with secretly, surely langing them out in the open would nake asything

Q

Despite what seems to be a host of reasons in favour of The logalisation of drugs in sport, I defend the stance po that they should remain bouned, and I have even more compelling evidence that supports this.

The Brit reason for this is safety - of athletes and of the rest of society. It sportwere reduced to nothing

* Rother than nevely "destroyed allibration corees, "we'd see destroyed lives. more than a bortle between & pharmacologists (a much the Just save way that today's America's Cup can almost be baight then it would simply be those athletes with the greatest near, and willing to take the greatest risks with their hather that would win. The WADA Gars substances, in part, because they pose a darger to the athleter: EPO's red blood cell inducement leads to thicker blood, with a huge dage of clots which and can and do result in and attacks and aneurisms. It also reduces the body's dependencing * Shuster acknowledged that athletes have 'teams of sports specialists"-but any young person seeking to enulate the cerult of their sporting hover though their own drug use has now of this -it would be hugely unsate and likely total for some. How could we allow this? The next case to be nacle from against the legalisation of performance - enhancing drugs is that "more than ever, athlots would feel coerced to take drugs in order to remain competitive". Ge The organish posed by Shusker assumes that all athletes, professional and not, want to take dyas, but this is absolutely not the case. Where today, there is a mand divide between adhletes with backed by though oprerous resources and those less so, legalisation of drugs would areate a huge schism. All sports that derive some of their identity from their history and records, ex such as baseball, would lose all that perture for would no longer be able to relate to their sporting herbos, and again, at grassroots level, where there prevue Physical Education 93501, 2013 already dormat

03 to take drugs would brugely increase, safely would not be a priority.

The solutions to today's problem die not in the legalisation of drugs, but in a change in an thre within sport, and an more finding for more reporous testing and research to detect row substances. The scandals of they deat being exposed in recent years is sad, but we're moving towards being cleane in most sports. Right now, though, clear affiletes are directivated ley there being my drugs in sport. Former 100m world record ex holder, Janardan Asafa Powell, has lover Lound out for drugs recently, and track and kield's reportation has been muddled. Usain Bott, who has nover fixed my serious doping allogations, and is still treated with some district by those who have lost faith in high level sport, he pow spends much the telling everyone that he is clear. Upuldrifit be better traciety were in a place where this was taken as given and we could get on with be celebrating he success rather than waiting for him to be caught? Nadzeig Ostapolink, Belarusian shot putter, won the beat Valeric Adans in the London 2012 Olympic but was found out to be a drug chart. Perce this, Adam had been devastated, apologisting to the nation and appeared in interviews to have been had he sport broken Along with much of Now Zealand, I felt her pair, and was abolitely gutted for her. When she was cetropatively awarded gold, it just warn't the some - her moraert of victory had been sten. She did say of the other that it was encaraging her alleber, like Therell praid to compele clearly that the system usks and that day cheats are caught " he

3) should be away for more of this, so that sport can be do and up and regard standing. Too many donathlets have been hurt by drug droats a Adams is held in lower regard for her not barring broken world record set in the For and so when when when world record set in the For and so when when when world record set in the For and so when when when when when we compart.

While the case for the legalisation of drugs in sport, assexpit forward by Shister and other, does appear to have its mosts, the case against, as only very briefly warideed by this essay, is anything but "weak", and is one that must be taken up - for the firture of sport, and its safety in society. The only morally acceptable way to "level the playing held" is to firther improve arraystens of catching aright the playing held" is to firther improve arraystens of catching aright closely at the highest level, and do our country proad.

ASSESSOR'S USE ONLY

EX

Of their training working on the skills and techniques they need in their chosen field. In my own sports, I have used some performance analysis books to help me identify what I needed to work on so that my time was nell sport, and so that I could, improve skill performance. Many other allibers do the same. In this ossay, while some of the many merits of performance analysis with be discussed, there will also be a discussion of its shortcomings, it is certainly not a universally applicable fix it that with always lead to the derived courts.

My main sport is udlayball, and sometime, our roach sets up a conery so that we can see ourselves exouring orders skills. This technique of video analyis can be really usekel - once, I noticed that I wasn't very side on in my spike - without Abis rotation, I wasn't kitly whilising the principle of Lorce summation, and identifying this dland we to keen on accepting it. When all leter engage in video analysis, they are other trying to compare their technique to some magined ideal - this is limited by their knowledge I good technique, distlepthes and Findamentally Haved in that sometime, unconventional technique can adverse smiler or superior corulte. This is extremely aidest rigolf Bubby Water and Jim Faryk are praised for their skill, and compake at The highest level, but mystilly commentates Clearly, one without to or technique that all athlets should node! thenselves on lout a myriad ways to achieve the desired cerultiand so bound video analysis

24) has its start faults.

ASSESSOR'S

Such analysis also ignores sociocy (twal factors - in many sports, instinct and northwal ability are absolutely vital. Also, many athletes do not have access to video analysis tools or expert coachings to decipher such footage. It is important not to overbook the "leal" of a skill's execution - the intensification of whether a skill left fluid, know for me, how the ball contact feft, or how officient to movement left. Was there or months table strain or any muscles? Video analysis canot assect that it

As a process to upon performance improvement, performance analysis is again limited. A performance improvement programme should seek to improve the athlete holistically taking note of the societal thral factors that the inclividual larings with them, like their preferences, repowers or blestle crand time available to construct a programme saited to them. Performance analysis is great as a way of indicating their program of skilled athletes but it best limited to that. Its effective and safe use relies on a knowledge of bornechanical principles and Roctional anatomy— which is often of recognised to be lacking. Before constructing a performance improvement programme, far more and varied information should be made available that performance analysis alone comot provide. This should be kept in mind.

In 1963, Lock defined performance improvement as a relatively &

permanent drange in skilled behaviour brought about by practice. But, as Coach Vince Lombard? It sported out, "practice makes permanence, both only perfect practice makes perfect " > disproving CV The old adoge practice values perfect . Perhaps partornance analysis can help inform per lect or successful training" as defined by Atherhydiard 3" intelligent frampy. But This may not always be the case. It has been Juggested by Some that all of the analysis and theories That come with moder sports science overcomplicate a natural pricade. Young children learn to walk and talk without the aid of coaching of performance analysis. Lechans we've made things hoo hard so ourselves. I think that too many people assume that performance analysis and such techniques are the only ways to improve a skill. This is a perfect example of scientism-people assume that only Those nothods which are prover and ngaged in scientifically can lead to success. An overeliance on portomorce analysis probably ignores other alternative nothods that may work better for some people.

In 2004 beilmore and (astill used the felms "esporders" R and "non responders" to describe the way in which deflerent ath leter can respond to the way in which the same thurtis. Withouthours mandy in 1997, Rushall and Lippman Stressed the importance of a programme of that "cakers to the individual roads" of an ath lete. With this is mind, this way it's worth voting that performance analysis, as a near to inform performance improvement, is thely to work brilliantly for some people

Physical Education 93501, 2013

A) and not for others. In my volleyball keam, through we all train together, we don't all becomes and improve in the same ways:

Some of us responded to performance analysis and its technolorshistic approach, others didn't. While I have a background in sports science and physics and enjoy applying these concepts I've learned to my sport, it seems that some of my teamnaks have a far more 'natural' approach. One sier does not fit all.

Fruilly, this essay west slik will discuss the relevance of decados. de notor burning learing to teday. When analysing partomara, some would by to identify which of Fittes and Posner's "Three Stages of Learning" they are at. This theory was published in 1967, well before modern psychology, Neuroscience or sport today's sport science leally come into their own. One of its weaknesses is linearly that it assumes that an athlete will progress through such of those stages in a predictable namer through practice. This is absolutely not supported by my our experiences. With my volleyball serve, I'd have had it to the point where I wasn't thinking about it conscious by it came raturally (autonomous) but might locide that I wanted to have norciontal over it placement - Kor which I would have to oralyse what I was doing and what I might need to change. Rething a stell in this way is the tran autonomous, and Fill's and Posser's Model fails here. An arthlete night be at an autonomous phase when executing a skill he is not very good et, yet the model suggest autonomity to be

06

something of m end good · luxuridat to surprised of many top alleter alway consciously controlled their skill execution the model would describe this as "cognitive" and , dertity it as a weakness, locliere-that we as sports scientists, reed to pay more attention to the Kindings of modern science and psychology to review ar authorted though still clung to theories. Reformance analysis is all well and good of gourse looking for the right things, but it's possible that we aren't. la conclusion, performance analysis as a process to inform performance improvement can be a user I tool, it used in conjunction with other information and linked to more modern skill learning theories and an understanding that one size does not fit all-there may not be just one per lect technique, and per to marce avolyis may not be holpful for everyone. A well constructed perhormance improvement programme itself should not be too kecussed an analysis, and indeed, strougld arm to develop game sense and instruct as well as technical

22) Sport NZ's (formerly SPAKC) & Stay and Play research Rand that 70%. of going people who participate in spot, between the ages of Box and 18. The commonly held view is that children and temagers who drop out of sport are doing thanselves a the-long disservice, he tend to believe that young people a ho are physically active an'l grow up to be older people who are physically active. I seems rewonable, but youth sport may not lead to likelong

physical activity.

there is a lot of focus on children and teenages to be physically active, because it is believed that these komative years will determine their lifelong physical activity. I believe that pethaps more attention should be thated to encouraging participation in sport and physical activity 5 among ad-1ts and older peoples just a much as for young people. The factor that affect the physical activity of going people are not always the same ones affecting adults, and I think that more strategies should be devised that ease the transition from the organised, to smichred activity in schools to the wider world, and directly focuses on older people, because brook HAN-dran amperson was not active in their youth is nothered by different factors later in life that may lead them to taking up physical activity: they are not a lost cause. I

Kott et al. in 2006 set formad he "challenge" of l'hurning today's youth into regular and lifetions

physical activity participants". Why can't we han today's.

people; young and old alike into such participants?

Ups, "odolescence is a critical period", but is it really
any more critical than any other? Even the
largest and most diligent of long-range studies

have only found "low to moderate correlations
between youth participation and adult participation.

To explain this, of the "influencing factors, or, 'barries
and mabless' should be considered at both ages!

Young people, who, like me, are skilled at some sports and enjoy the competitive aspects, tend to thrive through the Schooling years. Top level teams benefit from the lost a Hertion, coaching and support on other. Those who enjoy spert more for its so aid aspects and in lower teams are of ten aertooked and not cared for to anywhere near the same extent. Less skilled performers can be put off by the emphasis on competition and success often brought by coache when they really unted to enjury themselver. This is why many people thop out I spot as going people regardre experiences. Especially is secondary schools, sport can be wappealling for some, and simple physical activity for it own rake, like walking or yoga or tamping is often not valued by PE classes , and so may not be learned or appreciated. In the hormone - charged teenage years, more so than at any other time, inscribes about looking lead in hout of other people or

Physical Education 93501, 2013

disliking their own body type is another off putting factor. To its credit, organised sport in schools is very accessible or has anost people and is easy to get involved in, ar endered by its high uptake. When this is less true for lake in the, uptake rates for organised sport fall away. I suggest that more opportunities be movided for adults to participate in organised sport, both competitives and socially, whether it be through workplace teams, family aren't, groups or clubs or any other means. When I leave school, I'm not sive where I'd Rind team to play for, so I think it's also important that young people are connected to dubs or amountity groups during their school thee to raise the chances of their continued participation.

For adults, the majority of physical activity is not sport celated—it's more the social aspects, like going for a walk with friends or family, playing with the lids, swimming at the beach or joining some sort of fitness group. If these were the only opportunities available, I don't think I would be nell served as I love team sports, and the save goes for my Dad who is am lean sportsman who revels in competition. We to for me to continue to be active over the next few years, I think I'll need to find a teams to competition for because I am loss motivated by marrialing 5 my personal Rithers than I am by the fun and challenge of sport. This is a key point to

Physical Education 93501, 2013

Recognise-Aut at everyone participates in physical activity. " Rer ther own reasons. Those often lead to little from of engagement that should all be catered for.

One way in which continued, "I I felong" perticipation can be accomped achieved is by habitualisationforming a habit that will be stuck to over the years. Bruden Associate Professor of Psychology A. Lo Dichworth of At the University of Benry lunia has desokchman contributed much in her research into success. She found that, along with goal-setting and notivation, 'grit' was a key factor - the abitity. to persevere and sustain long - term goals or habity. This is relevant here because it suggests that there is an inheart quality in some people that will set them up well to stickwith their habits. In others, however, if this grit is absent, there may be a tendency to change from one for of an activity to anotheras their interests develop over time. For those people, I think that there should be opportunition to try new activities out and commit to short term things - rather than committing to a whole searon air a team when they might not know how their circumstances might change. IT

The man message I am trying to get across here is
that there should be are many strategies in place
and opportunities available as there are types
of people. At present some people and age
groups are cutered to more effectively than

oflers. And There is no one strategy that would ensure thelong physical activity, and noteed, some people are produbly never grown to participate an like that. Each age, stage, and type of people should be understood, Cr and valued, and caked to - we need to broden our approach. The Orford English Dictionary definer wellbeing as 'the state of loing comfortable, healthy or happy'. In different stages of life, - this would be enhanced 6, physical activity, in other, not . Even physical activity itself may not be for everyone. Especially for adults, a "healthism assumption should CV not be applied wheren it is solely there for individualis responsibility to participate, rather, community efforts should be made, and a culture should be encouraged of celebrating and valueing physical activity a all its Korns and of all levels. Ettelbran Lifebra participation is a goal that stand be reached by strategies throughout one's whole the not limited to young people, but extended to Po every body.