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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2009 question paper for the guidance of teachers

0413 PHYSICAL EDUCATION

0413/01

Paper 1 (Theory), maximum raw mark 80

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

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| Question | Section A | Par MADA |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1 | Give one definition of the term Social Well-being. | |
| | Have essential human needs, food, clothing and shelter Have friendship and support Have some value in society Able to mix with others | Par CHANA |
| 2 | Apart from providing energy name another reason why the body needs nutrients. | |
| | Enables the body to repair itself Growth | [1] |
| 3 | Most drugs can harm a performer in some way name one socially accepted drug. | |
| | Alcohol Tobacco Caffeine Prescription drugs, credit given for naming a drug | [1] |
| 4 | Describe one way that unemployment can reduce the level of participation in physical activity. | |
| | Lack of motivation Lack of money Lack of available transport | [1] |
| 5 | Describe one main bone that helps in the production of blood. | |
| | FemurRibsHumerus | [1] |
| 6 | Describe two forms of extrinsic motivation. | |
| | Money Medals / trophies Publicity Fame and publicity The above answers must have a a description i.e. money through prize money etc. just naming a type of motivation will not be enough for a mark. | [2] |
| 7 | Describe two factors that could encourage older people to participate in physical activities. | |
| | Additional time Improve social aspects of life Health factors | [2] |

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| 8 | There are fewer female professional teams compared to those for males. Give two reasons why this is the case. | ambrid |
| | Lack of sponsorship | |
| | Lack of media coverage | |
| | Poor attendance at matches / events so little money is generated | |
| | Insufficient player base in certain sports to support a professional | |
| | structureLack of opportunity / structure in certain sports | |
| | Lack of opportunity / structure in certain sports Lack of general interest in female sports | [2] |
| 9 | Describe two benefits, other than helping to prevent injury that can be gained from a warm up. | |
| | | |
| | Helps prepare you mentally | |
| | Increases heart and blood flowIncreases muscle flexibility | |
| | Increases muscle flexibility Loosens joints | [2] |
| | - | [-] |
| 10 | Bruising is an injury commonly associated with contact sports. What is meant by the term bruising? | |
| | Blood is leaking from damaged blood vessels under the skin | |
| | Blood is trapped under the skin | [1] |
| 11 | Give one sign or symptom of bruising. | |
| | Localised pain | |
| | Swelling | |
| | Skin discolours – blue, black and yellow | [1] |
| 12 | Describe two ways in which a sports centre can encourage participation. | |
| | Answers can describe how groups with disabilities can access different sports / building | |
| | Community groups can access traditional sports | |
| | Relaxation of rules to allow access to activities where there might be | |
| | cultural issuesSpecific times allocated to certain groups | |
| | Women only sessions which maybe the only way that certain religious | |
| | groups can access public facilities | |
| | Advertising / making people aware of classes activities | |
| | Reduction in admission costs for certain groups | |
| | Liaison with schools | |
| | Provide coaches and coaching at a variety of levels | |
| | Child care facilities | |
| | Child care facilities Provide apportunities to watch top class sports to encourage | |
| | Child care facilities Provide opportunities to watch top class sports to encourage participation | |

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| 13 | Describe three ways that schools help to promote participation amongst its students. | ambridg | |
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| | Compulsory PE lessons Offer extra curricular activities School based clubs Examination courses Links with local clubs Dual use facilities Use of local facilities in the community Use of outside speakers / visiting coaches etc. Advertise /publicise activities on notice boards School sports bulletin / newsletter | [3] | COM |
| | | [Total: 20] | |

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| Question | Unit B1 – Factors affecti | ng Performance | Pa TABA | |
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| (a) | What is meant by the ter | m a drug? | | |
| | body works | cal substance that affects the way in which your erformance in some way | | |
| (b) | | why rest is an important part of a training | [1] | |
| (6) | programme. | willy lest is all important part of a training | | |
| | | cover from minor injuries | | |
| | | the liver become depleted and need to be | | |
| | replenished during re Allows the performer | | [2] | |
| (c) | When taking part in exe How does this improve p | rcise regularly the heart will become stronger. performance? | | |
| | Performances can co Greater tolerance to oxygen delivery to the | Imped around the body Intinue for longer Ithe build up of lactic acid due to the increase in e muscles / improve gas exchange Ithe which results in the heart having to work less | | |
| (d) (i) | Complete the table below which describes the actions of named voluntary muscles. | | | |
| | Voluntary Muscles N | Main action | | |
| | | Raise arm forward, backward and sideways at he shoulder | | |
| | Tricep | Straightens the arm at the elbow | | |
| | Gastrocnemius | Straightens the ankle joint so you can stand on your tip toe | [2] | |
| (ii) | importance. Arteries – walls of the Stomach walls – cont Bladders – allows mo Saliva glands – helps | digestion of food | | |
| | | ound in the walls of internal organs. The cardiac ary muscle but will need a detailed description for | | |

| | | Way. |
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| The body has three different types of joints Synovial, Cartilaginous and Fibrous Describe one way that each type of joint benefits a performer. Synovial – freely movable allows limb movement in a number of planes i.e. a hurdler would need to be able to abduct and extend at the hip to get over the hurdle. Cartiliginous joints – slightly movable allows small amounts of movement i.e. intercostal cartilage which allows movement of the ribs allowing the expansion of the lungs, when running and the chest capacity increases. Fibrous joints – immovable allows no movement between flat bones i.e. the skull when heading a ball in football – the joint maintains the shape and acts as a shock absorber between the flat bones of the skull. The diagram below is the Information Processing model. What do the letters A and B represent in the diagram. A Decision Making B Output Identifies strengths so that skills can be built on ledentify weaknesses so that they can be worked on See if additional training or practice is needed Set goals for improvement Stay motivated Learning takes place when there is feedback Give two principles that need to be applied when a coach is giving feedback to a performer. | hip to get over the hurdle. Cartiliginous joints — slightly movable allows small amounts of movement i.e. intercostal cartilage which allows movement of the ribs allowing the expansion of the lungs, when running and the chest capacity increases. Fibrous joints — immovable allows no movement between flat bones i.e. the skull when heading a ball in football — the joint maintains the shape and acts as a shock absorber between the flat bones of the skull. [3] The diagram below is the Information Processing model. A Decision Making |
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| movement i.e. intercostal cartilage which allows movement of the ribs allowing the expansion of the lungs, when running and the chest capacity increases. • Fibrous joints – immovable allows no movement between flat bones i.e. the skull when heading a ball in football – the joint maintains the shape and acts as a shock absorber between the flat bones of the skull. [3] (ii) The diagram below is the Information Processing model. What do the letters A and B represent in the diagram. • A Decision Making • B Output (iii) Describe why feedback is important • Identifies strengths so that skills can be built on • Identify weaknesses so that they can be worked on • See if additional training or practice is needed • Set goals for improvement • Stay motivated • Learning takes place when there is feedback (iii) Give two principles that need to be applied when a coach is giving | movement i.e. intercostal cartilage which allows movement of the ribs allowing the expansion of the lungs, when running and the chest capacity increases. Fibrous joints – immovable allows no movement between flat bones i.e. the skull when heading a ball in football – the joint maintains the shape and acts as a shock absorber between the flat bones of the skull. [3] e diagram below is the Information Processing model. hat do the letters A and B represent in the diagram. A Decision Making |
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| Stay motivated Learning takes place when there is feedback [3 (iii) Give two principles that need to be applied when a coach is giving | |
| (iii) Give two principles that need to be applied when a coach is giving | · · |
| • • • • • • • • • • • • • • • • • • • • | Learning takes place when there is feedback [3 |
| | • • • |
| Feedback must be given as soon as possible after the performance | Feedback must be given as soon as possible after the performance |
| It should be clear and to the point so that you know what to do next / be constructive | · |
| You must have enough time to think it over before the next attempt | |
| The method of providing feedback must be appropriate to the | · · · · · · · · · · · · · · · · · · · |
| understanding of the performer Feedback must use either Knowledge of Performance or Knowledge | |
| of Results [2 | = |
| [Total 20] | |

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| Question | ion Unit 2 – Health, Safety and Training | | | |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------|--|
| (a) | Explain how inapp | propriate clothing can contribute to causing injuries. | Pa GANDING | |
| | Inappropriate footwear can cause slipping or too much grip, indoor / outdoor footwear Clothing may need to be warm as protection from the cold to aid a warm up; clothing may be needed for protection against the cold and prevent hypothermia when taking part in outdoor activities Not wearing safety clothing can cause injury – safety helmet when climbing, cycling etc. Ill-fitting clothes can cause you to trip Clothing likely to tear in contact sports – not wearing a rugby shirt can cause the body to be exposed when rucking etc. occurs Clothes should protect from friction burns | | | |
| (b) | | a person's ability to perform in sports. that can cause obesity. | | |
| | Lack of exercisLack of balance | e | [2] | |
| (c) | Complete the tak | ole below by giving the description of the term | | |
| | term | Description | | |
| | Cardiac Output | Cardiac output is the volume of blood pumped from the left ventricle each minute | | |
| | Stroke Volume | The volume of blood pumped from the left ventricle each heart beat | | |
| | Heart Rate | The number of beats per minute | [2] | |
| (d) (i) | Reversibility is a p | orinciple of training. | | |
| | Explain what is mo | eant by reversibility. | | |
| | <u>.</u> | e your fitness ng so muscles shrink re not used will atrophy | [1] | |
| (ii) | When could revers | sibility occur? | | |
| | Candidates need to part | describe the reasons why rather than just stop taking | | |
| | - | r becomes injured | | |
| | | ss training to spend more time on developing technique s bored with training and stop | [1] | |

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| (iii) | Choose one of the other principles of training and explain how this is used in a weight training programme. | SANDAIG |
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| | Overload – in the training programme there must be an increased resistance – the weight used is increased Increase the number of repetitions The number of sets Increase the frequency of sessions Intensity of sessions Reduction of rest periods Specificity Identify the muscle groups needed for training Recognise the type of training that needs to be undertaken What additional training is needed? – the weight lifter will need some flexibility training alongside the strength training Progression Exercises need to be gradually built up to avoid injury The weight training needs to be planned over time Strength training would start by being very general and become more specific | ambridge com |
| (e) (i) | Explain the benefits of being involved in a Fartlek Training programme. | |
| | Good for training in sports that require a change of speed as it can have sprint elements in it You can change the mix of fast bits and slow work to suit your sport Allows both the aerobic and anaerobic systems to be used Suitable for a variety of sports In the early stages of training the less active periods of training can help recovery during training The training can be interesting as the activity as well as the pace can change Can have little cost Can be adapted to any environment | [3] |
| (ii) | Explain how you would use the overload principle in Fartlek Training to improve performance. | |
| | Increasing time / reduce less active periods Speed Difficulty of terrain | |
| | Made more interesting / challenging | [1] |

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| ľ | When organising a multi sports activity there is a ne isk assessment. Describe one task that needs to be carried out whe | Tage |
| | ssessment. | John John |

- Visiting the sites for the activity
- Check the equipment being used
- Check the areas are safe for equipment to be moved
- Ensure any signs are visible
- Ensure that those needing to lift equipment know the correct procedure
- All equipment in the area not being used is correctly stored away

(ii) Describe one potential hazard that may occur in each of the following settings and explain how you would reduce the risk.

- 1. swimming pool
 - · wet surfaces around the pool area
 - wet surfaces in the changing areas
 - diving area used for swimming
 - equipment used as aid should be stored or used under supervision
 - swimmers swimming out of their depth
- 2. gymnasium / sports hall
 - · gym equipment not stored correctly
 - surfaces and walls should not have objects projecting from them
 - floor dirty which makes it slippery
 - type of equipment being used / types of balls etc.
- 3. playing field
 - long grass / pitted uneven surface
 - · frost, mud etc.
 - litter, glass, rubbish on the ground
 - · equipment such as goalposts need to be secure

The action must relate to the hazard, 1 mark for identifying the hazard and 1 mark an appropriate action- the action must relate to the named hazard

[6]

[Total: 20]

[1]

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| Question | Unit 3 Reasons and opportunities for participation in physical activity | Pa SIMB. |
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| (a) | Name an activity and describe how it has been adapted to enable sports performer with a disability to take part. | Pa |
| | An example of how any sport has been adapted to allow any disability full participation e.g. Basketball – wheelchair basketball football – use of a bell in the ball for partially sighted bowling – ramps for the bowl to be delivered | |
| | Skiing – wide ski with a seat | [1] |
| (b) | Name two disadvantages that the increase in media coverage can have on the manager of a professional sports team? | |
| | Constant attention | |
| | If the team does poorly decisions are put under scrutiny Media often influence the selection of teams | |
| | Media intrusion into private life | ro1 |
| | Media try to sensationalise events at the club | [2] |
| (c) | What would be the benefits of attending an after school activity for a young person. | |
| | Social benefits – joining other people in clubs helps develop social objects of the property and confidence on increase. | |
| | skills, improve self esteem and confidence, enjoyment • Development of skills – increase the level of participation, provide | |
| | opportunities at club, area, county or national level, improve skills, take opportunities to participate in new activities, gain additional skills for courses such as Duke of Edinburgh, Sports Leaders, Governing body awards | |
| | Physical benefits – improve physical fitness and health | |
| | Support participants to participate after they leave school by using facilities outside school | |
| | Relieves stress | [3] |
| (d) (i) | Local clubs are often run by volunteers. | |
| | Why do local clubs use volunteers? | |
| | Local clubs cannot afford to pay officials Volunteers will already be part of the club so have a commitment to | |

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| (ii) | Desc | cribe two roles that are needed to run a club. | | MA | |
| | Cano | didates need to describe the role, if it is just named r | no credit will | ill be | • |
| | | Secretary – arranges meetings, keeps minutes, communication between the club members and the clul | | | |

| (ii) | Describe two | roles that a | re needed to | run a club |
|-------|--------------|------------------|---------------|--------------|
| (1117 | Describe (MO | i i vies iliai a | ie lieeueu lo | Tull a Glub. |

- Secretary arranges meetings, keeps minutes, responsible for communication between the club members and the club committee
- Treasurer looks after the clubs finances and manages its bank
- Chairperson the top club official and would represent the clubs at meetings and chairs the club meetings
- Fixtures / membership Secretary responsible for arranging club fixtures with other clubs and organising membership arrangements for people who belong to the club
- Coach coaches teams, club sessions etc.

(iii) In may cases clubs often need to raise money. Describe two ways that funds can be raised.

- Membership fees these can be annual fees to join the club or to pay for example to book a badminton court
- Applying for grants from either, local authorities, lottery grants or sports governing bodies that will be used for improving club facilities.
- Sponsorship at a local level companies may sponsor kit for club teams etc.
- Fund raising events at the club dances, barbecues etc.

Answers relating to ticket sales, merchandising, television coverage etc do not relate to local clubs and should not be given credit.

(e) Some countries excel in certain sports for example football in Brazil. Why would it be difficult to develop different sports in these countries?

- Lack of coaches in that particular sport
- Limited facilities available for that sport lack of swimming pools prevent some counties from developing many international swimmers
- Funding used for the sports that the country excels in
- Difficult to get media coverage as they will concentrate on the sports that the country has success
- The climate of the country may not support the sport being played skiing in tropical countries
- Some sports are not part of the culture / tradition of that country so there is limited interest - Sumo wrestling has limited interest outside of Japan
- If certain sports are not taught in school there will be limited understanding
- Geographical some countries may be isolated so it becomes difficult for participation – Argentina has difficulties playing international rugby in the region as it is the only country that plays in that region
- Science / medical support as the sport is not seen as significant there will be little scientific and medical support made available
- It may be impossible to develop a group of professional performers due to the lack of interest and money

[2]

[2]

[3]

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| a game peoples' |
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(f) (i) What are the positive effects of the media on sport?

- By showing the sport at key times it will gain in popularity
- Show highlights programmes to prevent any boring aspects of a game being shown
- By slow motions replays and analysis they can improve peoples' understanding of the sport
- Can deliberately sensationalise a sport to increase interest
- Introduce minority sports to create interest
- Coverage can create excitement replays, camera positions and angles, split screens
- Sport is available at all times so sport can be shown from all parts of the world
- People understanding of sport improves as analysis of matches games etc. are available
- Creates role models and stars that generates interest
- Helps to change rules that generates interest

(ii) Using named sports describe some of the changes that have been brought by television coverage.

Candidates must name a sport and the examples must apply to it, if a sport is not named marks cannot be awarded.

- Rugby video refereeing to confirm tries being scored, rugby league season changed to ensure television coverage; five points for a try to make games higher scoring; bonus points for the number of tries scored
- Cricket different types of competitions limited overs to try and engineer exciting finishes to games; coloured clothing rather than the traditional white; video umpire for key decisions
- Football names on shirts so it is easy to see who is involved in the play; rules such as offside reinterpreted to prevent stoppages in the game, penalty shoot out in certain games to provide an exciting conclusion to the game
- Athletics grand prix events introduced so that an entire meeting can take place in an evening
- Skiing different types of events introduced such as tricks events to target youth culture
- Tennis tie break so that tennis games do not last for hours and beyond TV coverage
- Squash score on every point to make the games shorter and increase the speed of scoring

[3]

[3]

[Total: 20]