# MULTIPLE CHOICE QUESTION PAPER



| Paper number:   | Time allocation: |
|---|------------------|
| SAMPLE 4  | 45 minutes       |
| Please ensure that this paper number is referenced on your candidate answer sheet |                  |
|   |                  |

Title:

# Level 3 Combined Assessment Sample Assessment Materials

#### Student: XXXXXX Sample 4

## **Special Instructions:**

Before you begin, please check that your name is shown above AND on your answer sheet. If you have someone else's exam paper or answer sheet, please let your invigilator know before starting the assessment.

This assessment contains 30 multiple-choice questions, over two sections:

- Section 1 contains 20 questions that test your knowledge of Applied Anatomy and Physiology (A/616/4747)
- Section 2 contains 10 questions that test your knowledge of Nutrition to Support Physical Activity (L/616/4753)

**Each question is worth one mark**. You should select one response (a, b, c or d) for each question and record this on your personalised answer sheet. If you need to change any of the answers you have given, delete your response by completely filling in the box and then select the response you prefer. Circle the new response to make it clear that this is the answer you would like marked. **Please do not write on the question paper**.

Try to answer all questions and check your responses, if you have time to do so. To pass this assessment, you must correctly answer:

- 14 out of 20 questions in Section 1 AND
- 7 out of 10 questions in Section 2

YOUR QUESTION PAPER AND ANSWER SHEET MUST NOT BE REMOVED FROM THE EXAM ROOM

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### Section 1

### Applied Anatomy and Physiology (A/616/4747)

This section contains 20 questions that test your knowledge of Applied Anatomy and Physiology. You need to score a minimum of 14 out of 20 in this section to pass the assessment.

- **Q1** Which of the following is a ligament that supports the spine?
  - a) Iliofemoral ligament
  - b) Posterior longitudinal ligament
  - c) Medial collateral ligament
  - d) Anterior talofibular ligament
- Q2 Which hormone regulates metabolism of all cells and tissues in the body?
  - a) Insulin
  - b) Thyroxine
  - c) Cortisol
  - d) Oestrogen
- Q3 When is delayed onset of muscular soreness (DOMS) typically experienced?
  - a) Immediately after exercise
  - b) 2–8 h after exercise
  - c) 12–72 h after exercise
  - d) 4-7 days after exercise
- Q4 Which muscle in the legs is the longest in the human body?
  - a) Splenius capitis
  - b) Sartorius
  - c) Supraspinalis
  - d) Seratus anterior

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- **Q5** Which muscle crosses the elbow joint?
  - a) Biceps femoris
  - b) Triceps brachii
  - c) Teres major
  - d) Levator scapula
- **Q6** What disease of the arteries is characterised by fatty material being deposited on their inner walls?
  - a) Osteoporosis
  - b) Atherosclerosis
  - c) Arteriosclerosis
  - d) Osteoarthritis
- **Q7** Which is a function of systemic circulation?
  - a) To carry deoxygenated blood away from the heart to the body
  - b) To transfer oxygenated blood back to the heart from the body
  - c) To carry oxygenated blood away from the heart to the body
  - d) To transfer nutrients around the body
- Q8 Which spinal disorder may also be known as 'hunchback'?
  - a) Hyper-kyphosis
  - b) Hyper-lordosis
  - c) Upper-cross syndrome
  - d) Lower-cross syndrome
- Q9 Which muscles are situated along each side of the spine?

#### a) Erector spinae

- b) Teres minor
- c) Infraspinatus
- d) Deltoid

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- Q10 What must happen to start a muscle contraction?
  - a) Stimulation of the muscle by a motor neuron impulse
  - b) Stimulation of the muscle by an actin filament
  - c) Stimulation of the muscle by a myosin filament
  - d) Stimulation of the muscle by adenosine triphosphate
- Q11 What is the contraction phase of the cardiac cycle called?
  - a) Diastole
  - b) Pulmonary
  - c) Systemic
  - d) Systole
- Q12 Which of the following is the cause of the birth defect achondroplasia?
  - a) The muscles of the legs and arms do not form correctly
  - b) The bone tissue of the hands and feet do not grow properly
  - c) The muscles of the spine do not form correctly
  - d) The bone tissue of the leg and arm do not grow properly
- **Q13** Which of the following is a pelvic floor muscle?
  - a) Piriformis
  - b) Levator scapula
  - c) Coccygeus
  - d) Erector spinae
- **Q14** Which of the following is a role of the brain?
  - a) Transfer of messages
  - b) Interpretation of messages
  - c) Autonomic control
  - d) Initiation of spinal reflexes

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- **Q15** What system produces hormones that regulate metabolism, growth and development?
  - a) Nervous
  - b) Endocrine
  - c) Lymphatic
  - d) Respiratory
- Q16 Which local (deep) muscle supports posture?
  - a) Erector spinae
  - b) Rectus abdominis
  - c) Transverse abdominis
  - d) External obliques
- Q17 Which muscle crosses the knee joint?
  - a) Tibialis anterior
  - b) Piriformis
  - c) Rectus femoris
  - d) Soleus
- Q18 Within the endocrine system, which gland is the 'master gland'?
  - a) Adrenal
  - b) Thyroid
  - c) Pancreas
  - d) Pituitary
- Q19 The function of a Golgi tendon organ is to
  - a) sense the speed of a stretch
  - b) sense the strength of a stretch
  - c) sense changes in muscle tension
  - d) sense changes in muscle size

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Q20 Which of the following is a primary core muscle?

- a) Trapezius
- b) Tensor fascia lata
- c) Transverse abdominis
- d) Tibialis anterior

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### Section 2

## Nutrition to Support Physical Activity (L/616/4753)

This section contains 10 questions that test your knowledge of Nutrition to Support Physical Activity. You need to score a minimum of 7 out of 10 (70%) in this section to pass this assessment.

- Q21 What is the calorific value of protein?
  - a) 4 kcal/g
  - b) 5 kcal/g
  - c) 6 kcal/g
  - d) 7 kcal/g
- Q22 In the energy balance equation, what would be the cause of weight gain?
  - a) Energy in is greater than energy out
  - b) Energy out is greater than energy in
  - c) Energy in is less than energy out
  - d) Energy in is equal to energy out
- Q23 What vitamin may be deficient in people who have little sunlight exposure?
  - a) Vitamin B
  - b) Vitamin C
  - c) Vitamin D
  - d) Vitamin K
- **Q24** Why is it healthier to prepare your own food rather than buying take-aways or pre-prepared foods?
  - a) Bigger portions can be prepared
  - b) More carbohydrates can be added
  - c) Healthier cooking methods can be chosen
  - d) More protein can be added

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- Q25 Which one of the following contain simple carbohydrate?
  - a) Meat
  - b) Fruits
  - c) Fish
  - d) Vegetables
- Q26 What is the name of the process of converting muscle protein to glucose?
  - a) Oxidation
  - b) Kreb's cycle
  - c) Gluconeogenesis
  - d) Glycolysis
- **Q27** Which of the following healthy eating guidelines is the **most important** for clients with a weight loss goal?
  - a) Limit foods high in fat and sugar
  - b) Drink six-to-eight cups/glasses of fluid every day
  - c) Base meals on starchy carbohydrates
  - d) Have some dairy or dairy alternatives every day
- **Q28** What type of food packaging label shows a visual representation of the fat, saturated fat, salt and sugar in the contents?
  - a) Warning sign labelling
  - b) Stop and go labelling
  - c) High and low labelling
  - d) Traffic light labelling
- Q29 What organisation is the professional association and trade union for UK dietitians?
  - a) The Food Standards Agency
  - b) The Health and Care Professions Council
  - c) The British Dietetic Association
  - d) The Association for Nutrition

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- **Q30** Which of the following would be the most reliable source of nutritional information for sports people?
  - a) Sports websites
  - b) Scientific nutrition journals
  - c) Sports magazines
  - d) Sports club leaflets

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Important! The form should be completed IN CAPITAL LETTERS using a BLACK ballpoint pen. Characters and marks used should be similar to: To select a checkbox. A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, 🛛 or 🗹

# YMCA Awards Theory Paper

MMCA awards

This candidate answer sheet must be used with a paper in the following structure:

# **30 Questions**

Site Code: SAM001/001 Assessment Date: 01/03/2018 0000000000000 Paper: Sample 4

Student: XXXXXX Sample 4

| Q1  | а 🗌 | b 🗌 | c 🗌 | d 🗌 | Q16 | a 🗌 | b 🗌 | c 🗌 | d 🔲 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Q2  | a 🗌 | b 🗌 | c 🗌 | d 🗌 | Q17 | a 🗌 | b 🗌 | c 🗖 | d 🔲 |
| Q3  | а 🗌 | b 🗌 | c 🗌 | d 🗌 | Q18 | a 🗌 | b 🗌 | c 🗆 | d 🗌 |
| Q4  | а 🗌 | b 🗌 | с 🗌 | d 🗌 | Q19 | a 🗌 | b 🗖 | c 🗆 | d 🗌 |
| Q5  | а 🗌 | b 🗌 | с 🗌 | d 🗌 | Q20 | a 🗌 | b 🗖 | c 🗆 | d 🗌 |
| Q6  | а 🗌 | b 🗌 | с 🗌 | d 🗌 | Q21 | a 🔲 | b 🗖 | c 🗆 | d 🗌 |
| Q7  | а 🗌 | b 🗌 | с 🗌 | d 🗌 | Q22 | а 🔲 | b 🗌 | с 🗌 | d 🗌 |
| Q8  | а 🗌 | b 🗌 | с 🗌 | d 🗌 | Q23 | а 🔲 | b 🗌 | с 🗌 | d 🗌 |
| Q9  | а 🗌 | b 🗌 | с 🗌 | d 🗌 | Q24 | а 🗌 | b 🗌 | с 🗌 | d 🗌 |
| Q10 | а 🗌 | b 🗌 | с 🗌 | d 🗌 | Q25 | a 🗌 | b 🗌 | с 🗌 | d 🗌 |
| Q11 | a 🗌 | b 🗌 | с 🗌 | d 🗖 | Q26 | a 🗌 | b 🗌 | с 🗌 | d 🗌 |
| Q12 | a 🗌 | b 🗌 | с 🗌 | d 🗆 | Q27 | a 🗌 | b 🗌 | с 🗌 | d 🗌 |
| Q13 | a 🗌 | b 🗌 | c 🗌 | d 🗖 | Q28 | a 🗌 | b 🗌 | с 🗌 | d 🗌 |
| Q14 | а 🗌 | b 🗖 | c 🗆 | d 🗌 | Q29 | а 🗌 | b 🗌 | с 🗌 | d 🗌 |
| Q15 | a 🗌 | b 🗖 | c 🗆 | d 🗌 | Q30 | a 🗌 | b 🗌 | c 🗌 | d 🗌 |

- Invigilator Name (must be clearly printed)

- Invigilator Signature (Please keep inside box)

Candidate Signature (Please keep inside box)



