CONFIDENTIAL

The National Clinical Coding Examination [UK]

27 March 2018

Paper 2 Theory
1:30 pm - 4:35 pm
[THREE HOURS]

The first 5 minutes will be spent reading through this Examination Paper

This Examination Paper consists of 3 Sections: C, D and E.

Section C – General Short Theory Questions [20% of the Marks]
Answer all questions in this Section in the space provided on the Examination Paper.

Section D [45% of the Marks]
Answer all questions on the lined paper provided. Use a new sheet of paper for each answer. Write only on one side of the paper.

General Theory ICD-10 Questions D[1] [15% of the Marks]
Answer either Section D1A or D1B

General Theory OPCS-4 Questions D[2] [15% of the Marks]
Answer either Section D2A or D2B

Clinical Terms Questions D[3] [10% of the Marks]
Answer either Section D3A or D3B

Miscellaneous Questions D[4] [5% of the Marks]
Answer either Section D4A or D4B

Section E – Anatomy & Physiology (including Medical Terminology) [35% of the Marks]
Answer all questions in this Section in the space provided on the Examination Paper.

Section E[1] Anatomy & Physiology – Answer all Questions 1-15
Section E[2] Medical Terminology – Answer all Questions 1-10
Section E[3] Diagrams – Label both diagrams
Section C – General Theory Short Questions [20% of the Marks]

You must write your candidate number on the top right hand corner of each page.

Answer ALL 20 questions in this Section writing your answers in the spaces provided.

1. In ICD-10 5th Edition, where a note states to ‘Use an additional code, if desired’, how should ‘if desired’ be applied? [2 Marks]

2. What are the four levels of complexity of operation/intervention described in PRule 3: Axis of the classification? [4 Marks]

3. In what circumstances must ‘hypovolaemia’ always be coded? [2 Marks]

4. What is the OPCS-4 standard for the coding of high cost drugs administered in theatre? [2 Marks]
5. What must be coded in OPCS-4 when angioplasty and insertion of stent or stent graft are performed at the same time, and individual codes are available for the angioplasty and for the stent/stent graft insertion; why is this? [2 Marks]

6. Hearing loss must always be coded using the ICD-10 5th Edition classification when it is described using either of which two terms? [2 Marks]

7. Name the two types of injuries of the musculoskeletal system and connective tissue that must be assigned to a code from ICD-10 5th Edition Chapter XIII Diseases of the musculoskeletal system and connective tissue. [2 Marks]

8. When coding foot osteotomy procedures, on what does the assignment of the appropriate OPCS-4 category depend? [4 Marks]
9. Describe the OPCS-4 standard for the coding of an excision biopsy (excision and biopsy). [3 Marks]

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11. Name the three routes of administration of chemotherapy that require an OPCS-4 body system chapter code to be assigned preceding the procurement / delivery code. [3 Marks]

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12. Describe the ICD-10 5th Edition standard for the coding of a digestive system haemorrhage when it is a symptom of a specified, diagnosed disease. [2 Marks]

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13. Describe the OPCS-4 sequencing standard when resection and reconstruction procedures have been performed during the same theatre visit. [1 Mark]

14. When must anti-D injections be coded using OPCS-4? [1 Mark]

15. Describe the three circumstances when the ICD-10 5th Edition fourth character .8 would not be assigned for a malignant neoplasm overlapping site boundaries. [3 Marks]

16. When must ICD-10 5th Edition code R68.8 Other specified general symptoms and signs be assigned for multiple organ failure? [1 Mark]

17. Fourth characters at OPCS-4 category Y98 Radiology procedures provide four different pieces of information. Name two of these. [2 Marks]
18. If a patient, who has coronary artery disease, is admitted with and treated for an acute myocardial infarction, and has an intervention to treat the coronary artery disease at the same hospital, which of these two conditions will be the primary diagnosis and why? [2 Marks]

19. Name the two types of approach associated with a transcatheter aortic valve implantation (TAVI) procedure. [2 Marks]

20. If a patient is diagnosed with more than one grade of cervical intraepithelial neoplasia (CIN), vaginal intraepithelial neoplasia (VAIN) or vulval intraepithelial neoplasia (VIN), what must be coded? [1 Mark]
Section D – General Theory Questions

Please use separate Answer Sheets found at the end of this Question Paper, to answer your chosen questions in Section D.
- You must use a new Answer Sheet for each question.
- Write on only one side of the Answer Sheet.
- You must write your Candidate Number in the top right hand corner of each Answer Sheet that you use.
- You must write the Question Number in the top left hand corner of each Answer Sheet that you use.

Section D[1] – ICD-10 Theory [15% of the Marks]

Answer either Part A or Part B of the following:

Please make it clear which question you are answering and label each Section accordingly.

Question D1 Part A: [Answer all components of this question, i, ii and iii]

i) Provide a description of the ICD-10 5th Edition category and code structure. [6 Marks]

ii) Describe sequelae codes and their use in ICD-10 5th Edition. [5 Marks]

iii) Describe the ICD-10 5th Edition sequencing associated with the coding of primary, secondary and history of malignant neoplasms. [5 Marks]

OR

Question D1 Part B: [Answer all components of this question, i and ii]

Please use separate Answer Sheets making it clear which question you are answering and label each Section accordingly.

i) Describe the axis of the ICD-10 5th Edition classification and rules of chapter prioritisation. [11 Marks]

ii) Describe the ICD-10 5th Edition classification standard when coding ‘rectal haemorrhage’ and ‘per rectal haemorrhage’. [5 Marks]
Section D[2] – OPCS-4 Theory [15% of the Marks]

Answer either Part A or Part B of the following:

Please use separate Answer Sheets making it clear which question you are answering and label each Section accordingly.

Question D2 Part A: [Answer all components of this question, i, ii and iii]

i) Describe the OPCS-4 coding rule related to the use of Section III Alphabetical Index of Surgical Abbreviations within OPCS-4 Volume II – Alphabetical Index. [3 Marks]

ii) Describe the OPCS-4 cross references, their use, and where they are found. [6 Marks]

iii) Describe the OPCS-4 clinical coding standard when assigning codes for specifically classifiable arteries. [5 Marks]

OR

Question D2 Part B: [Answer all components of this question, i, ii and iii]

Please use separate Answer Sheets making it clear which question you are answering and label each Section accordingly.

i) Describe the concept of overflow categories in OPCS-4 and how they are identified in the Alphabetical Index. [5 Marks]

ii) Describe the OPCS-4 standard relating to the coding of diagnostic imaging procedures using body system chapter codes. [5 Marks]

iii) Describe the OPCS-4 standard that must be applied when coding angiocardiography (ventriculography) of the heart and coronary arteriography, carried out during the same visit to theatre. [4 Marks]
Section D[3] – Clinical Terms [10% of the Marks]

Answer either Part A or Part B of the following:

Please use separate Answer Sheets making it clear which question you are answering and label each Section accordingly.

Question D3 Part A: [Answer all components of this question, i, ii, iii, iv, v and vi]

i) Name the two types of relationships found in SNOMED CT. [1 Mark]


iii) Name the three types of components that represent SNOMED CT content. [3 Marks]

iv) Name three benefits, to the clinician, of using SNOMED CT in an Electronic Patient Record (EPR). [3 Marks]

v) Fill in the missing words below to identify the appropriate concept description type, as used in SNOMED CT. [1 Mark]

   a. The ________________________________ is a phrase that unambiguously describes a concept and includes a hierarchy tag in brackets after the phrase.

   b. A __________________________ is a word or phrase commonly used by clinicians to refer to a concept.

vi) Name the two fundamentals of clinical coding that the SNOMED CT to ICD-10 and OPCS-4 maps are compiled to reflect. [1 Mark]

   OR
Question D3 Part B: [Answer all components of this question, i, ii, iii, iv, v and vi]

Please use separate Answer Sheets making it clear which question you are answering.

i) What is SNOMED CT? [3 Marks]

ii) a. Which national organisation is the UK Member’s National Release Centre for SNOMED CT? [1 Mark]

b. How often is SNOMED CT UK Edition updated? [1 Mark]

iii) Name two benefits of using an electronic care record. [2 Marks]

iv) True or false - The maps provide a fully automated link from SNOMED CT to ICD-10 and OPCS-4. [0.5 Mark]

v) Please tick the one correct statement, from the choices below: [0.5 Mark]

SNOMED CT Concepts:

a. Have a numeric identifier that may change
b. Are the central component of SNOMED CT
   c. Have only one description

vi) Name four uses of the data collected via the SNOMED CT to ICD-10 and OPCS-4 maps. [2 Marks]
Section D[4] – Miscellaneous Section [5% of the Marks]

Answer either Part A or Part B of the following:

Please use separate Answer Sheets making it clear which question you are answering and label each Section accordingly.

Question D4 Part A: [Answer all components of this question, i and ii]

i) What is Hospital Episode Statistics (HES)? [3 Marks]

ii) Local policy and procedure documents should be inspected as part of a clinical coding audit. Which four criteria are they expected to follow? [4 Marks]

OR

Question D4 Part B: [Answer all components of this question i and ii]

Please use separate Answer Sheets making it clear which question you are answering and label each Section accordingly.

i) Describe the function of the NHS Data Model and Dictionary Service. [4 Marks]

ii) Provide a brief description of Healthcare Resource Groups (HRGs). [3 Marks]
SECTION E - Anatomy & Physiology (including Medical Terminology)

[35% of the Marks]

Please be aware that spelling will be taken into account during the marking process.

Section E[1] – Anatomy & Physiology

You must write your Candidate Number in the top right hand corner of each page.

Answer ALL 15 questions in this Section, writing your answers in the spaces provided.

1. Name the three continuous parts that make up the small intestine. [3 Marks]

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2. What is the name given to the smallest veins? [1 Mark]

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3. Where in the body are synovial membranes found and briefly describe their function? [3 Marks]

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4. What structure is part of the spermatic cord and runs from the testis to the seminal vesicle? [1 Mark]

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5. Briefly describe the structure of the medullary canal and state what it contains. [3 Marks]

6. What gland secretes the oily fluid, sebum? [1 Mark]

7. What is the name of a form of sugar that it is a product of starch metabolism in the body? [1 Mark]

8. Name the three small bones in the ear, and give the collective name for them. [4 Marks]

9. What is the name of the thousands of small filters in the kidneys? [1 Mark]
10. In human anatomy, what is the definition of a joint? [3 Marks]

11. What lines the majority of the inner surface of the sclera and absorbs light after it has passed through the retina? [1 Mark]

12. What is the name for the intermixing of molecules of a liquid or gas so that they are equally concentrated? [1 Mark]

13. Name the four lobes of the cerebrum. [4 Marks]

14. What is the name given to the distal end of the abdominal aorta at which point the artery divides into the two common iliac arteries? [1 Mark]

15. Provide one example for each of the three types of cranial nerve. [3 Marks]
Section E[2] – Medical Terminology

Please be aware that spelling will be taken into account during the marking process.

Answer ALL 10 questions in this Section, writing your answers in the spaces provided.

1. To which organ does the root word ‘encephal-’ pertain? [1 Mark]

2. What suffix means ‘creation of an artificial opening’? [1 Mark]

3. Break down the term ‘dysphagia’ into its component parts and state what each part means. [4 Marks]

4. Describe the difference between the prefixes ‘ect-’ and ‘end-’ [2 Marks]

5. What root word is used to describe ‘pus’ or ‘pus forming’? [1 Mark]
6. What is the suffix in ‘cholelithiasis’ and what is its meaning? [2 Marks]

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7. What two prefixes mean half? [2 Marks]

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8. Define the term ‘mastopexy’? [2 Mark]

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9. Identify the three root words in this group. Circle your answers. [3 Marks]
   aer  bi  dys
   oid  ad  lip
   spasm  cele  radi

10. What does the suffix ‘-ptosis’ mean? [1 Mark]

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Section E[3] Diagrams

Precisely label the anatomical structure indicated by each line on the following two diagrams. Write your answers in the boxes below.

E 3[a] Interior view of the heart [15 Marks]

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E 3[b] Urinary system [13 Marks]

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3. 10
4. 11
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