

GSN670(E)(N6)H

NATIONAL CERTIFICATE INFORMATION PROCESSING N4

(6020254)

6 November 2019 (X-Paper) 09:00–12:00

This question paper consists of 19 pages.

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DEPARTMENT OF HIGHER EDUCATION AND TRAINING REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
INFORMATION PROCESSING N4
TIME: 3 HOURS
MARKS: 300

CANDIDATES ARE ALLOWED 30 MINUTES TO READ THE INSTRUCTIONS BEFORE THE EXAMINATION STARTS.

	TIME	MARKS
SECTION A: TYPING TECHNIQUE	2 hours	200
SECTION B: WORD PROCESSING	1 hour	100
TOTAL:	3 hours	300

READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE ANSWERING THE QUESTION PAPER. INVIGILATORS WILL EXPLAIN IF NECESSARY.

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SECTION A: TYPING TECHNIQUE

- Candidates who are NOT ready and on time for the TIMED ACCURACY TEST (QUESTION 1) will only be allowed to enter the examination venue after the expiration of the TEN MINUTES allowed for the test.
- 2. Candidates are allowed to read through the test THREE MINUTES before the commencement of the examination.
- 3. The timed accuracy test must be keyed in at the beginning of the examination.
- 4. After the expiration of the TEN MINUTES allowed for the test, your test will be collected and signed by the invigilator who will retain it until the completion of the examination session whereafter, in your presence, it will be put in your EXAMINATION FOLDER.
- 5. Answer ALL the questions.
- 6. Procedure for QUESTIONS 2, 3, 4 and 5: Key in, save and print.
- 7. Each answer must be printed on a separate A4 paper. Use only ONE side of the paper.

SECTION B: WORD PROCESSING

- 1. Answer ALL the questions.
- 2. Procedure for QUESTIONS 7A and 8A: Key in, save and print.
- 3. Retrieve, copy and process according to the instructions in part B of each question. Print and hand in part A as well as part B.
- 4. Each answer must be printed on a separate A4 paper. Use only ONE side of the paper.

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GENERAL

- 1. A computer ruler and ASCII codes may be used.
- NO notes or any nonpermissible material may be hidden in or transcribed into these articles.
- Use only COURIER NEW 12 pt except if otherwise indicated in the question paper.
- Save your work at regular intervals to prevent loss of keyed-in data during a
 power failure. Only the duration of the power failure will be allowed
 additionally. NO extra time will be allowed for loss of work.
- 5. In the event of a computer or printer defect the invigilator will make the necessary arrangements for you to continue with the examination and the actual time lost will be allowed additionally.
- Key in the QUESTION NUMBER as well as your EXAMINATION NUMBER at each question. NO questions without EXAMINATION NUMBERS will be marked.
- 7. At the end of the examination session, hand in the following:
 - 7.1 EXAMINATION FOLDER with PRINTOUTS to be marked in the same order as the questions in the question paper.
 - 7.2 The compact disk/memory stick on which your work was saved, properly marked with your EXAMINATION NUMBER. If work is saved on the hard drive/network, the invigilator(s) must copy the work to a compact disk/memory stick and then it must be deleted immediately from the hard drive/network. Students' answers must be kept for at least 6 MONTHS.
 - 7.3 ALL other PRINTOUTS. NO PRINTOUTS may be taken out of the examination room or put into bins.
- 8. Any attempt to obtain information or to give information to another candidate is a violation of the examination rules and will be regarded in a serious light. If you are found guilty of such a violation, steps will be taken against you.

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SECTION A TYPING TECHNIQUE

DO NOT TURN THE PAGE BEFORE THE INVIGILATOR INSTRUCTS YOU TO DO SO.

	TIME	MARKS
QUESTION 1: TIMED ACCURACY TEST	10 minutes	20
QUESTION 2: TABULAR STATEMENT	28 minutes	44
QUESTION 3: BUSINESS LETTER	37 minutes	60
QUESTION 4: COLUMNS	33 minutes	56
QUESTION 5: AFRICAN LANGUAGE	12 minutes	20
TOTAL	120 minutes	200

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QUESTION 1: TIMED ACCURACY TEST

TIME: 10 MINUTES MARKS: 20

MARGINS:

Left: 2,54 cm/1"

Right: 2,54 cm/1"

PAPER: A4 portrait
HYPHENATION: No
ALIGNMENT: Left

SPEED: 35 wpm (minimum requirement) LINE SPACING: 2 (double)

FONT: Courier New 12 pt

1. The following timed accuracy test must be keyed in ONCE only.

2. The passage allows for speeds of 35 and 40 words per minute.

3. Key in your EXAMINATION NUMBER (left), the QUESTION NUMBER and your STATION/COMPUTER NUMBER (right) as a header.

4. Save the document as Q1 and print it.

5. Your test must be collected and signed by the invigilator at the BEGINNING of the EXAMINATION. ALL pages need to be signed.

There is no clinical or scientific evidence that supports the theory that a specialised diet may cause or benefit individuals with ulcerative colitis. However patients may find that certain foods aggravate symptoms of ulcerative colitis and they should avoid such foods.

The most common symptoms of ulcerative colitis are rectal bleeding, abdominal cramping and diarrhoea. It may be reasonable to keep a food journal to track what foods aggravate symptoms.

Discuss your dietary needs with your treating doctor or a dietician that specialises in ulcerative colitis and diet. The cause of ulcerative colitis is not known. To date there has been no convincing evidence that it is caused by infection or is contagious.

Ulcerative colitis likely involves abnormal activation of the immune system in the intestines. This system is supposed to defend the body against harmful bacteria, viruses, fungi and other foreign invaders. Normally the immune system is activated only when the body is exposed to harmful invaders.

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QUESTION 1 (CONTINUED)

In patients with ulcerative colitis however the immune system is abnormally and chronically activated in the absence of any known invader. The continued abnormal activation of the immune system causes chronic inflammation and ulceration portions of the large intestine.

This susceptibility to abnormal activation of the immune system is genetically inherited. First degree relative's brothers, sisters, children, and parents of patients with IBD are therefore more likely to develop these diseases. There have been multiple studies using genome wide association scans investigating genetic susceptibility in ulcerative colitis.

At this early point in the research it is still unclear how these genetic associations will be applied to treating the disease but they might have future implications for understanding pathogenesis and creating new treatments.

Common symptoms of ulcerative colitis include rectal bleeding, abdominal pain and diarrhoea, but there

[20]

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QUESTION 2: TABULAR STATEMENT

TIME: 28 MINUTES MARKS: 44

MARGINS: Equal ALIGNMENT: As indicated

FONT: Courier New 12 pt LINE SPACING: Single except where PAPER: A4 landscape indicated otherwise

Key in your EXAMINATION NUMBER (left), the QUESTION NUMBER and your STATION/COMPUTER NUMBER (right) as a header.

2. Take ALL proofreading signs into consideration.

3. Insert a TABLE.

4. Save the document as Q2 and print it.

5. Put the PRINTOUT in your EXAMINATION FOLDER.

Drug/Comparator ug	Recommended dose ud	Dosage [form ug	Average [annual [drug [cost [ud	Strength <u>lud</u>	Price [(\$) uc
Simponi Golimumab	50 mg/0.5 ml 200 mg week 0, 100 mg week 2, and 50 or 100 mg every 4 weeks thereafter ^a	Pre-filled syringe or auto-injector	Year 1: [22,356 [Thereafter: [19,375	50 mg/0.5 ml [100 mg/1.0 ml	1,490.4
Infliximab Remicade	5 mg/kg at weeks 0, 2 and 6, and every 8 weeks thereafter ^b	Vial for IV infusion	Year 1: [29,046 [Thereafter: [23,600	100 mg/10 ml	968.20
Adalimumab Humira	160 mg week 0, 80 mg week 2 and 40 mg every 2 weeks thereafter ^c	Pre-filled syringe or auto-injector	Year 1: [22,356 [Thereafter: [19,249	40 mg/0.8 ml	470.63 740.36 ster

Arrange in alphabetical order

is based on / US product monograph for Humira. b Assumes 75 kg patient and no wastage of partially used vials. c Dosing for adalimumab

a Manufacturer-submitted price. All prices are from / Ontario Drug Benefit fees.

de

= Intravenous and UC = Ulcerative Colitis \geq

[44]

Cost comperison table for biologic agents for ulcerative colitis¹ uc, ital, centre

sp caps, bold in figures

Table thirteen

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QUESTION 3: BUSINESS LETTER

TIME: 37 MINUTES MARKS: 60

MARGINS:

Left: 3,81 cm/1.5"

Right: 2,54 cm/1"

PAPER: Letterhead
HYPHENATION: Yes
ALIGNMENT: Left

FONT: Courier New 12 pt except LINE SPACING: Single with double line spacing between

spacing between paragraphs

1. Retrieve the letterhead QUESTION 3 on your network/hard disk/memory stick.

2. Key in your EXAMINATION NUMBER and your STATION/COMPUTER NUMBER (left) as a footer.

- 3. Take ALL proofreading signs into consideration.
- 4. Save the document as Q3 and print it.
- 5. Put the PRINTOUT in your EXAMINATION FOLDER.

```
Today's date in full
#
Mr KS Mukwevho
PO Box 987
Khubvi uc
λ
                                                       oldsymbol{\Lambda} Insert postal code: 0977
#
Dear Sir/Madam
                   del
#
→Move
                            had stet
If you or someone you love have recently been diagnosed with ulcerative colitis, it's
important to begin learning as much as you can about what ulcerative colitis
is. [By developing a better understanding of ulcerative colitis you will be more NP
prepared to manage its symptoms and live a full Life.
#
Ulcerative colitis is a chronic#disease of / large intestine also known as / colon in
which / lining of / colon becomes inflamed and develops tiny open sores or ulcers
can that produce pus and mucous. / combination of inflamation and ulceration
cause abdominal discomfort and frequent emptying of / colon to. del
         -----page break ------
Number second page top centred
What are / signs and symptoms? uc, ital, u/line
‡
Be sure to consult your Λ if you experience any of / following symptoms:

∧ doctor

#
          trs
movements bowel become looser and more urgent
persistent diarrhoea
                                                         s/s, ital, insert bullets and indent
stool is generally bloody
spasmodic abdominal pain
#
 What is ulcerative colitis? uc, bold, centre
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Change ulcerative colitis to capital letters and bold

QUESTION 3 (CONTINUED)

People suffering from $\underline{\text{ulcerative colitis}}$ often experience loss of appetite and may lose weight as a result.

Yours faithfully Florence Mutoti, Manager	Display correctly
# = letter space	

[60]

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QUESTION 4: COLUMNS

paragraphs in numerical order.

TIME: 33 MINUTES MARKS: 56

MARGINS: HYPHENATION: Yes Left: 1,27 cm (0,5") ALIGNMENT: Left Right: 1,27 cm (0,5") LINE SPACING: As indicated PAPER: A4 landscape FONT: Arial 12 pt except where indicated otherwise Key in your EXAMINATION NUMBER (left), the QUESTION NUMBER and your STATION/COMPUTER NUMBER (right) as a header. 2. Take ALL proofreading signs into consideration. 3. Save the document as Q4 and print it. Put the PRINTOUT in your EXAMINATION FOLDER Candidate: Create TWO columns Column 2 Mild symptoms may respond to: 14 pt, uc, bold, u/line # diarrhoeal medicines: Anti⁽ Enemas or suppositories that contain medicine; Amino salicylates. and ‡ These medicines relieve inflammation in / intestines. ‡ They are also taken to keep / disease in remission. # Your doctor may prescribe these for a -few weeks to control active disease. ‡ T: Use Wingdings symbol Changes in your diet. # For more information contact Muriel Mabel at

015λ963λ3490 Δ# Courier New 8 pt. itali Column 1 Treatment for ulcerative colitis 14 pt, uc, bold, u/line 1. #You may need to treat other problems such as anaemia or infection. teenagers stet sp [2. HTreatment in children and teens may include taking nutritional suplements to NP restore normal growth and sexual development. [3. HIf you don't have any NP symptoms or if your disease is not active you may not need treatment either. del [5. HIt often is easier to keep / disease in remission than to treat a flare-up. trs [4. HIf you do have symptoms they usually can be with managed medicines to put"/ disease in remission.

Copyright reserved Please turn over

Candidate: Replace paragraph numbers with asterisk [*] and TWO letter spaces and indent. Arrange

[56]

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QUESTION 5: AFRICAN LANGUAGE

TIME: 12 MINUTES MARKS: 20

MARGINS:
Left: 2,54 cm (1")
Right: 2,54 cm (1")
FONT: Courier New 12 pt

PAPER: A4 portrait
HYPHENATION: No
ALIGNMENT: Left
LINE SPACING: 1,5 (1½)

1. Key in your EXAMINATION NUMBER (left), the QUESTION NUMBER and your STATION/COMPUTER NUMBER (right) as a header.

2. Save the document as Q5 and print it.

3. Put the PRINTOUT in your EXAMINATION FOLDER.

Vuvabyi bya fukuzane ya vele byi tolovelekile swinene, naswona vanhu vo tala vala va tshamile va twa hi byona. Fukuzane ya muxaka lowu hi yona yi nga tala swinene eka vaxisati eka tinxaka hinkwato ta ti fukuzane.

Nhlangano wa rihanyu wa misava, wu pimanyisa leswaku hi lembe ra 2004, vavasati va hundzile emisaveni.

[20]

TOTAL SECTION A: 200

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SECTION B

WORD PROCESSING

WORK FAST AND ACCURATELY

QUESTION 6:	PARAGRAPHS	Α	Already keyed-in	-
		В	15 minutes	25
QUESTION 7:	MEMORANDUM	Α	14 minutes	24
		В	12 minutes	20
QUESTION 8:	MENU	Α	6 minutes	9
		В	13 minutes	22
TOTAL			60 minutes	100

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QUESTION 6B: PROCESSING

TIME: 15 MINUTES MARKS: 25

1. Retrieve the document saved as Q6A. Process according to the instructions and as indicated in the text.

- 2. Change the left- and right-hand margin to 2,54 cm/1". Use Courier New 12 pt.
- 3. Align the document left and use the hyphenation function.
- 4. Change the line spacing to single-line spacing with double-line spacing between paragraphs.
- 5. Key in your EXAMINATION NUMBER (left), the QUESTION NUMBER and your STATION/COMPUTER NUMBER (right) as a header.
- 6. Save the document as Q6B and print it.
- 7. Put the PRINTOUTS in your EXAMINATION COVER.

Candidate:

- 1. Change 'Immunomodulator(s)' to capital letters and bold.
- 2. Insert page number at the top centred on page 2 only.

λ What are the treatments for ulcerative colitis? Comic Sans 14 pt, uc, bold, ital

#

Both medication and surgery have been used to treat ulcerative colitis. However, surgery is reserved for those with severe inflammation and life-threatening complications.

There is no medication that can cure ulcerative colitis uc, bold [Patients with ulcerative colitis will typically experience NF periods of relapse (worsening of inflammation) followed by periods of remission (resolving of inflammation) lasting from months to years. [During relapses symptoms of abdominal NP pain, diarrhoea and rectal bleeding worsen. During remissions these symptoms subside. Remissions usually occur because of treatment with medication or surgery but occasionally they occur spontaneously, that is without any treatment.

A What are ulcerative colitis medication? Comic Sans 14 pt, uc, bold, ital

[Since ulcerative colitis cannot be cured by medication the N	P
goals of treatment with medication are to: insert	
NP Replace paragraph numbers with ⊚ ∥	
[$⊗$ $lap{+}i$ nduce remissions [$⊗$ $lap{+}m$ aintain remissions [$⊗$ $lap{+}m$ inimise	
side effects of treatment $[\odot H]$ improve the quality of life and	
[⊕ minimise risk of cancer. Change all first letters that are underlined to uc	
[Treatment of ulcerative colitis with medication is similar,	
though not always identical, to treatment of Crohn's disease.	
replace [Crohn's] with [chronic]	
page break	_

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QUESTION 6B (CONTINUED)

NP Replace paragraph numbers with $\odot \#$ replace [5] with [five]

Medication for treating ulcerative colitis includes $[\odot \#_{\underline{a}}]$ ntiinflammatory agents such as $\underline{5}$ -ASA compounds, $[\odot \#_{\underline{s}}]$ systemic
corticosteroids, $[\odot \#_{\underline{s}}]$ topical corticosteroids and $[\odot \#_{\underline{s}}]$ immunomodulators. Change all first letters that are underlined to uc

[Anti-inflammatory medication that decreases intestinal inflammation is analogous to arthritis medication that decreases joint inflammation (arthritis). The anti-inflammatory medication used in the treatment of ulcerative colitis is:

replace [5] with [five]

[Topical 5-ASA compounds such as sulfasalazine (Azulfidine), NP olsalazine dipentum and mesalamine (pentasa, asacol, lialda, del apriso and rowasa enema) that need direct contact with the inflamed tissue in order to be effective.

Isystemic anti-inflammatory such medication as corticosteroids that decrease inflammation throughout the body without direct contact with the inflamed tissue. Systemic corticosteroids have predictable side effects with long term use.

[Immunomodulators are medication that suppress the body's NP immune system either by reducing the cells that are responsible for immunity, or by interfering with proteins that are important in promoting inflammation.

[Immunomodulators are becoming increasingly important treatment for patients with severe ulcerative colitis who do not respond adequately to anti-inflammatory agents. Examples of immunomodulators include 6-mercaptopurine (6-MP), replace [6] with [six] azathioprine (Imuran), methotrexate (Rheumatrex, Trexall, Cyclosporine Gengraf and Neoral).

[It has long been observed that the risk of ulcerative NP colitis appears to be higher in nonsmokers and in ex-smokers. In certain circumstances, patients improve when treated with nicotine.

ŧ

λ What are immunomodulator medication? Comic Sans 14 pt, uc, bold, ital

. Λ Immunomodulators are medication that weaken the body's immune system.

[25]

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QUESTION 7A: MEMORANDUM

TIME: 14 MINUTES MARKS: 24

MARGINS:
Left: 2,54 cm/1"
Right: 2,54 cm/1"
FONT: Courier New 12 pt

PAPER: A4 portrait
HYPHENATION: No
ALIGNMENT: Left
LINE SPACING: Single

1. Key in your EXAMINATION NUMBER (left), the QUESTION NUMBER and your STATION/COMPUTER NUMBER (right) as a header.

2. Save the document as Q7A and print it.

3. Put the PRINTOUT in your EXAMINATION FOLDER.

Surgery for UC usually involves removing the entire colon and the rectum.

Removal of the colon and rectum is the only permanent cure for UC. This procedure also eliminates the risk of developing colon cancer. Surgery in UC is reserved for the following patients:

Patients with fulminant colitis and toxic megacolon who are not responding readily to medication.

Patients with long standing pancolitis.

Patients who have had years of severe colitis which has responded poorly to medication.

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QUESTION 7B: PROCESSING

TIME: 12 MINUTES MARKS: 20

- 1. Retrieve the document saved as Q7A.
- 2. Process according to the instructions and as indicated in the text.
- 3. Change QUESTION 7A in the header to QUESTION 7B.
- 4. Save the document as Q7B and print it.

Replace [UC] with [ulcerative colitis] in uc

Use Webding symbol and indent

Put the PRINTOUT in your EXAMINATION COVER.

```
λ Memorandum sp caps, bold, centre
#
                                 insert horizontal lines as indicated
#
To: # # All Clinic Managers
From: # Head of Department
                                         λ, uc, d/s
†
‡
A Surgery for ulcerative colitis uc, bold, ital
Surgery for UC usually involves removing the entire colon and
the rectum.
#
Removal of the colon and rectum is the only permanent cure for
UC.
       runs on
This procedure also eliminates the risk of developing colon
cancer.
#
Surgery in UC is reserved for the following patients: } uc, u/line
f k Patients with fulminant colitis and toxic megacolon who are
   not responding readily to medication.
‡
8 Patients with long standing pancolitis.
Patients who have had years of severe colitis which has
responded poorly to medication. del
‡
Use CN 8 pt
Λ For more information about ulcerative colitis visit www.ulcerativecolitis.co.za.
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(20) **[44]**

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QUESTION 8A: MENU

TIME: 6 MINUTES MARKS: 9

MARGINS:
Left: 3,81 cm/1,5"
Right: 2,54 cm/1"
FONT: Courier New 12 pt

PAPER: A4 portrait
HYPHENATION: No
ALIGNMENT: Left
LINE SPACING: Double

1. Key in your EXAMINATION NUMBER (left), the QUESTION NUMBER and your

STATION/COMPUTER NUMBER (right) as a header.

2. Save the document as Q8A and print it.

3. Put the PRINTOUT in your EXAMINATION FOLDER.

Menu

Whole grains

Breads Cereals Pastas

Starches

Well-cooked white rice

Nuts

Seeds

Legumes

Vegetables

Fruits

Sulfate

Dairy

Gluten

Foods to enjoy

Foods to enjoy

Crackers and cereals made with refined white flour

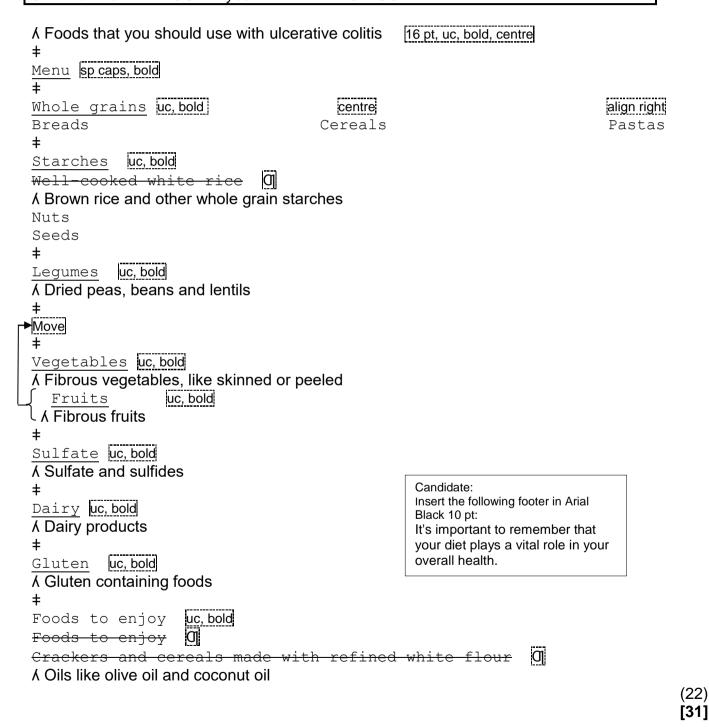
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QUESTION 8B: PROCESSING

TIME: 13 MINUTES MARKS: 22

- 1. Retrieve the document saved as Q8A.
- 2. Process according to the instructions and as indicated in the text.
- 3. Change line spacing to single except where indicated otherwise.
- 4. Change QUESTION 8A in the header to QUESTION 8B.
- 5. Save the document as Q8B and print it.
- 6. Put the PRINTOUT in your EXAMINATION COVER.



TOTAL SECTION B: 100 GRAND TOTAL: 300