

01	☐ A	☐ B	☐ C	☐ D	☒ E
02	☐ A	☐ B	☐ C	☒ D	☐ E
03	☐ A	☐ B	☒ C	☐ D	☐ E
04	☐ A	☐ B	☐ C	☐ D	☒ E
05	☒ A	☐ B	☐ C	☐ D	☐ E
06	☐ A	☐ B	☒ C	☐ D	☐ E
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13	☐ A	☐ B	☒ C	☐ D	☐ E

14	☒ A	☐ B	☐ C	☐ D	☐ E
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27	☐ A	☐ B	☒ C	☐ D	☐ E
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30	☒ A	☐ B	☐ C	☐ D	☐ E
31	☒ A	☐ B	☐ C	☐ D	☐ E
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33	☐ A	☐ B	☐ C	☐ D	☒ E
34	☐ A	☐ B	☐ C	☐ D	☒ E
35	☐ A	☒ B	☐ C	☐ D	☐ E
36	☐ A	☒ B	☐ C	☐ D	☐ E
37	☐ A	☐ B	☐ C	☐ D	☒ E
38	☐ A	☐ B	☐ C	☐ D	☒ E
39	☒ A	☐ B	☐ C	☐ D	☐ E

PRACTICE QUESTIONS

PEBC / BEPC - The Pharmacy Examining Board of Canada / Le Bureau des examinateurs en pharmacie du Canada

TQEI

Pharmacy Technician Qualifying Examination Part I (MCQ)

EDITION

Demo

QUESTIONS

9

FORMAT

Limited Edition PDF

Before you begin

What this is

9 practice questions for PEBC / BEPC - The Pharmacy Examining Board of Canada / Le Bureau des examinateurs en pharmacie du Canada **TQE1**, each with its answer key and an explanation. Answer a question before you read its key — the explanation is worth more once you have committed.

If something looks wrong

Send us three things and we will check it:

- the exam code, **TQE1**
- the question number
- the email address on your order

Write to **support@mometrix.net**. We reply within one business day.

QUESTION 1

SINGLE CHOICE

Under the Controlled Drugs and Substances Act (CDSA) in Canada, which schedule applies to codeine when it is compounded into a product containing less than 8 mg per unit dose and is sold directly to the public without a prescription in some provinces?

- ☒ **A** Schedule I
- ☐ **B** Schedule II
- ☐ **C** Schedule III
- ☐ **D** Schedule IV

ANSWER A

WHY Under the Controlled Drugs and Substances Act, codeine preparations containing no more than 8 mg per unit dose, combined with at least one other non-narcotic medicinal ingredient in a recognized therapeutic dose, are classified as Schedule I controlled drugs, although they may be sold without a prescription in some provinces under specific conditions (e.g., pharmacist-led sale). This is a key controlled-substance classification taught to pharmacy technicians.

QUESTION 2

SINGLE CHOICE

Which of the following is an activity a regulated pharmacy technician may perform under most Canadian provincial/territorial pharmacy acts and regulations?

- ☐ A Making a clinical recommendation to the patient about changing a dose
- ☐ B Independently prescribing a Schedule I medication
- ☒ C Performing the final check on a prescription filled by another technician in a community pharmacy
- ☐ D Communicating a new prescription diagnosis to the patient

ANSWER C

WHY Provincial/territorial pharmacy acts and regulations generally authorize regulated pharmacy technicians to perform technical functions such as the final technical check (e.g., checking a fill prepared by another technician or pharmacist) and dispensing under pharmacist oversight. Clinical recommendations, independent prescribing of Schedule I products and communicating diagnoses are restricted activities of pharmacists, not pharmacy technicians.

QUESTION 3

SINGLE CHOICE

A prescriber orders gentamicin 1.5 mg/kg IV every 8 hours for a 66 kg adult patient. How many milligrams should be administered per dose?

- ☐ A 33 mg
- ☐ B 66 mg
- ☒ C 99 mg
- ☐ D 132 mg

ANSWER C

WHY $1.5 \text{ mg/kg} \times 66 \text{ kg} = 99 \text{ mg}$ per dose. Doses of aminoglycosides such as gentamicin are routinely calculated using actual body weight (ABW) or adjusted body weight, but in this straightforward calculation, $1.5 \times 66 = 99 \text{ mg}$ per dose.

QUESTION 4

SINGLE CHOICE

According to USP <797>, what is the minimum ISO classification required for the primary engineering control (PEC) used to compound sterile preparations in a low-risk environment?

- ☒ **A** ISO Class 5
- ☐ B ISO Class 6
- ☐ C ISO Class 7
- ☐ D ISO Class 8

ANSWER A

WHY USP <797> requires a minimum ISO Class 5 environment for the primary engineering control (PEC) itself (such as a laminar airflow workbench or compounding aseptic isolator) used in compounding sterile preparations, regardless of the risk level. The surrounding buffer area requirements differ (ISO 7 for low/medium risk, ISO 8 for certain storage situations).

QUESTION 5

SINGLE CHOICE

A patient presents a prescription for warfarin 5 mg. During the patient interview, the patient mentions taking large amounts of leafy green vegetables daily. Which of the following best describes the significance of this dietary information?

- ☐ A Leafy greens increase warfarin metabolism, decreasing its effect
- ☒ **B** Leafy greens contain vitamin K, which antagonizes warfarin's anticoagulant effect
- ☐ C Leafy greens cause warfarin toxicity by displacing it from plasma proteins
- ☐ D Leafy greens have no clinically relevant interaction with warfarin

ANSWER B

WHY Leafy green vegetables (e.g., kale, spinach, broccoli) are rich in vitamin K, which antagonizes warfarin's anticoagulant effect by promoting the synthesis of vitamin K-dependent clotting factors (II, VII, IX, X). Patients on warfarin are advised to maintain a consistent intake of vitamin K-containing foods rather than avoid them entirely. The technician should flag this for the pharmacist.

QUESTION 6

SINGLE CHOICE

A technician is performing prescription data entry in the pharmacy information system. Which of the following fields should the technician verify as being identical to the information on the written prescription?

- ☐ A The patient's preferred pharmacy location only
- ☒ B The DIN, strength, quantity, and directions for use as written
- ☐ C The pharmacy's dispensing fee
- ☐ D The manufacturer's lot number

ANSWER B

WHY During data entry, the technician must accurately transcribe the Drug Identification Number (DIN), drug strength, quantity prescribed, and directions for use exactly as written by the prescriber. Dispensing fees and lot numbers are system-assigned, not part of the prescriber's written order. Any discrepancy must be clarified with the pharmacist and/or prescriber before the prescription is filled.

QUESTION 7

SINGLE CHOICE

Which of the following medications is classified as a proton pump inhibitor (PPI)?

- ☐ A Famotidine
- ☒ B Omeprazole
- ☐ C Ranitidine
- ☐ D Ondansetron

ANSWER B

WHY Omeprazole is a proton pump inhibitor that irreversibly inhibits the H⁺/K⁺ ATPase pump in gastric parietal cells, suppressing gastric acid secretion. Famotidine and ranitidine are H₂-receptor antagonists. Ondansetron is a 5-HT₃ receptor antagonist used as an antiemetic.

QUESTION 8

SINGLE CHOICE

Which of the following is the correct storage requirement for insulin that has been opened (in use) by a patient?

- ☐ A It must be discarded immediately after the first use
- ☒ B It must be stored at room temperature and used within 28 days (per manufacturer's instructions)
- ☐ C It must be frozen to preserve potency
- ☐ D It must be kept in a refrigerator at all times and used within 90 days

ANSWER B

WHY Once opened, insulin vials and cartridges should generally be stored at room temperature (per the manufacturer's product monograph) and discarded after 28 days, regardless of remaining volume. Unopened insulin should be refrigerated and not frozen. This is standard counselling information for patients receiving insulin.

QUESTION 9

SINGLE CHOICE

A prescription calls for levothyroxine 75 mcg PO once daily. The pharmacy stocks 0.075 mg tablets. How many tablets should be dispensed for a 30-day supply?

- ☐ A 15 tablets
- ☒ B 30 tablets
- ☐ C 45 tablets
- ☐ D 60 tablets

ANSWER B

WHY Levothyroxine 75 mcg is equivalent to 0.075 mg, so one 0.075 mg tablet delivers the prescribed dose. For a 30-day supply at one tablet daily, the total is 30 tablets. Answer A (15) reflects half the correct amount, C (45) reflects 1.5 tablets daily, and D (60) reflects double the correct amount.