



TECHNICAL UNIVERISTRY OF MOMBASA

Faculty of Applied & Health Sciences

DEPARTMENT OF MEDICAL SCIENCES

UNIVERSITY EXAMINATION FOR DIPLOMA IN:
PHARMACEUTICAL TECHNOLOGY (DPT 12M & 12S)

APM 2209: ETHICS & JURISPEDENCE

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: FEBRUARY 2015

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer Booklet*

Answer **ALL** questions in section **A & B**. Choose **TWO** out of the **THREE** questions in section **C**
This paper consist of **SEVEN** printed pages

SECTION A

1. The following are elements of clinical governance EXCEPT:
 - A. Openness
 - B. Risk Management
 - C. Clinical Effectiveness
 - D. Outreach

2. Clinical effectiveness may be described as:
 - A. Review of clinical performance
 - B. A measure of the extent to which a particular intervention works
 - C. Increased positive outcomes in clinical practice
 - D. Achievement of clinical goals set

3. One of the following statements best describes an innovation:
 - A. A new and useful art, process, machine, manufacture or composition of matter which is not obvious
 - B. Any new and useful improvement which is not obvious
 - C. Utility models, technovation models, and industrial designs and any other patentable creations that may be deemed as deserving specified intellectual property rights
 - D. Any new invention

4. The Industrial property Act No. CAP 509 can be described as:
 - A. An Act of parliament to make provision with respect to the control of the possession of, and trafficking in drugs made in the industry
 - B. An Act of Parliament to make provision for Industrial Property
 - C. An Act of parliament to provide for the promotion of inventive and innovative activities, to facilitate the acquisition of technology through the grant and regulation of patents, utility models, technovations and industrial designs
 - D. An Act of Parliament to prohibit trade and manufacture of counterfeit goods

5. An invention shall be considered as involving an inventive step if ... (Industrial Property Act No. CAP 509)
 - A. It would not have been obvious to a person skilled in the art to which the invention pertains
 - B. It would be obvious to a person skilled in the art to which the invention pertains
 - C. It is not industrially applicable
 - D. It is not new

6. Law is a set of rules that are usually enforced. This statements means that:
 - A. It's applicable to everyone
 - B. It's not biased
 - C. Members of the society must be compelled to obey it
 - D. Individuals have the freedom to do what they want

7. Which one of the following is NOT a principle governing the code of ethics and standards for pharmacy practice in Kenya?
 - A. Responsibility towards the good of individuals and community
 - B. Promoting activities geared towards making more money to boost the economical status of an individual
 - C. Serving all without discrimination
 - D. Respecting patients right to privacy

8. During strikes, labour disputes, withdrawal and conflicts on personal and moral belief, a pharmaceutical technologist is expected to:
- Wall out of their working stations and hold consultative talks with the necessary authority involved
 - Request somebody to stand in for them while they follow up their demands
 - Close the Pharmacy
9. Clinical governance ensures that:
- Maximum profit is attained
 - Least losses incurred
 - High standards of clinical care are maintained
 - Health workers don't go on strike
10. All of the following are necessary to ensure that the pharmaceutical technologist remains competent at work EXCEPT:
- Continuous medical education
 - Continuous Professional Development
 - Consistent raising of salaries or payments
 - Reading journals
11. One of the following documents may not be found in a Pharmacy. Which one?
- Order form (S")
 - Stock cards
 - Malaria test request form
 - Temperature log
12. Which of the following statements is NOT TRUE about the chief Pharmacists? Pharmacy and Poisons Act No. CAP 244)
- He appoints the four Pharmacists in the Pharmacy and Poisons Board
 - He is the Registrar
 - He can make alterations in the register
 - He ensures gazettement of any changes on register
13. Which of the following drugs is the ODD one out?
- Mitrazapean
 - Hydrochlorothiazide
 - Morphine
 - Loprazolam
14. Risk Management in clinical governance involves:
- Not taking any risks at all costs
 - Minimizing risks as part of any quality assurance programme
 - Preventing risking ventures
 - Avoiding risky activities that may affect quality of health care
15. Intellectual Property Rights:
- Is intangible
 - Is tangible
 - It comprises of patents and trademarks only
 - Can be used to exploit others

16. Patient XY, an adult of age 30 years comes to the Pharmacy with a prescription written as follows:
Tabs Paramol 1g tds x 3/7
Identify the error in the prescription
- A. Wrong dosage
 - B. Wrong dosage frequency
 - C. Wrong dosage form
 - D. Use of brand name for prescribing
17. Medication errors can be due to all of the following EXCEPT:
- A. Incompetency
 - B. Lack of competition
 - C. Disorganization at the working place
 - D. Serving more than one patient at a time
18. In reference to the Pharmacy and Poisons Act No. Cap 244, a medicinal substance may mean all of the following EXCEPT:
- A. Any medicine for treating a preventing a disease
 - B. Any medicine for diagnosing a disease
 - C. Any substance interfering with the physiological function of the body
 - D. Any product of plants used to cure diseases
19. Which of the below statements is FALSE:
- A. The Pharmacy and Poisons Board can borrow and lend money
 - B. The Pharmacy and Poisons Board cannot acquire any Property
 - C. The Pharmacy and Poisons Board can sue and be sued
 - D. The Pharmacy and Poisons Board is established under Pharmacy and Poisons Act No Cap 244
20. An invention shall be considered industrially applicable if according to its nature:
- A. It is applicable everywhere
 - B. It is applicable in medicine industry only
 - C. It can be made or used in any kind of industry
 - D. It involves pharmaceutical industry
21. Which of the following is NOT a dispensing error?
- A. Misreading the prescription
 - B. Dispensing of a wrong prescription
 - C. Incorrect information on the prescription
 - D. Dispensing an overdose of drug
22. Which of the following method is not used for disposal of health care waster and pharmaceuticals?
- A. Incineration at a minimum of 850°C and maximum 1200°C
 - B. Engineered Sanitary Landfill
 - C. Burning in the field and covering the remains with soil
 - D. Sewer disposal for diluted liquid, syrups, IV fluids
23. All of the following wastes can be disposed off using the incineration method EXCEPT:
- A. Solids
 - B. Expired Solids
 - C. Semi-solids
 - D. Powders

24. One of the following persons is involved in giving ago ahead on disposal of expired pharmaceutical drugs, which one:
- A. Chief Pharmacist
 - B. Registrar of the Pharmacy and Poisons Board
 - C. Hospital Pharmacist
 - D. District Health Management Officer
25. Clinical audit involves all of the following except:
- A. Review of clinical performance
 - B. Use of guidelines and protocols for particular disease
 - C. Refining of clinical practice
 - D. Measurement of performance against agreed standards
26. A pharmaceutical technologist mistakenly dispenses an overdose of a certain drug to a patient who developed complications due to toxicity. The case was reported to the hospital administrator who later summoned the pharmaceutical technologist who went through a disciplinary case. The pharmaceutical technologist in defence, claimed that there were no tablet counters at the pharmacy. What element of clinical governance was not put to work by the pharmacist in charge in this case?
- A. Openness
 - B. Clinical audit
 - C. Risk Management
 - D. Education
27. Which of the following statements best describes an Adverse Drug Reaction:
- A. A wanted side effect under normal dose
 - B. A severe side effect
 - C. An unwanted outcome in a drug under normal dosage
 - D. A fatal reaction
28. The amount paid to the registrar for the renewal of the annual license is:
- A. Two thousand shillings
 - B. Ten thousand shillings only
 - C. Four thousand shillings
 - D. Five thousand shillings
29. The best way to store morphine in the Pharmacy is:
- A. Storing it in under refrigerated conditions
 - B. Storing it in a locked cabinet which is accessible to all
 - C. Storing it in a drug shelf like all other drugs
 - D. Storing it in a locked cabinet whose access is limited to the Pharmacist who issues the drugs and records the same
30. Which of the following statements is NOT TRUE about the right to a patent with reference to the Industrial and Property Act No. CAP 509
- A. The right to a patent may be assigned
 - B. The right to a patent may not be transferred by succession
 - C. Right to a patent shall belong to the inventor
 - D. If two or more persons have jointly made an invention the right to the patent shall belong to them jointly

31. One of the following statements is TRUE about the withdrawal of application for the grant of a patent. Which one?
- A. The applicant may withdraw the application one week before the grant, refusal or rejection of a patent
 - B. The applicant may withdraw the application one month before the grant, refusal or rejection of a patent
 - C. The applicant may withdraw the application at any time before the grant, refusal or rejection of a patent
 - D. The applicant may not be able to withdraw the application at any time
32. Which of the following is NOT a nuisance according to the Public Health Act No. CAP 242
- A. Loud music in a matatu
 - B. Accumulation of offensive refuse dangerous to health
 - C. Accumulation of glasses deposited in a place which are injurious
 - D. Rearing chicken which produce sacks of waste matter comprising of their defaecation and wood chippings
33. The team responsible for the effecting of pharmaceutical waste disposal is known as:
- A. Health waste team
 - B. Disposal team
 - C. Waste management team
 - D. Waste disposal team
34. Who can access the register of patents and at what time?
- A. Anyone within the period of application of patent
 - B. Anyone at anytime
 - C. Anyone during working hours
 - D. Anyone, at only specific times of the day
35. A patent shall expire at the end of _____ years:
- A. Ten years
 - B. Twenty years
 - C. Five years
 - D. Only two years
36. The body corporate established to deal with industrial property is:
- A. KIPi
 - B. KIRDI
 - C. PPB
 - D. KEMRI
37. The best way of dispensing drugs to patients is through a:
- A. Boot
 - B. Window
 - C. Booth
 - D. A wire meshed window
38. Who heads the Ministry of Health
- A. Minister
 - B. Cabinet Minister
 - C. Cabinet Secretary
 - D. Permanent Secretary

39. The Pharmacy and Poisons Board established under the Pharmacy and Poisons Board Act No CAP 244 deals with all of the following except:
- A. Control of pharmacy profession
 - B. Control of infectious diseases
 - C. Control of trade in drugs
 - D. Control of trade in poisons
40. Bromazepan is classified under what category of drugs:
- A. Essential
 - B. Vital
 - C. Controlled
 - D. Toxic

SECTION B

1. Describe the following words used to define inventions
 - a) Inventive step
 - b) Industrial application
2. With reference to the Industrial and Property Act No Cap 509 explain the term of a patent and annual fees.
3. What are the qualification for registration and enrollment by the Pharmacy and Poisons Board
4. Describe the publication of details of registered pharmacists and enrolled Pharmaceutical Technologists
5. List down the duties of the Registrar of the Pharmacy and Poisons Board.
6. Differentiate between ethics and Morality
7. List FOUR values which are a basis for the code of ethics and standards in pharmacy practice.
8. Define clinical governance
9. According to the Pharmacy and Poisons Act No. CAP 244 what are the meanings of the following words:
 - a) Dispense
 - b) Authorized Officer
 - c) Board
 - d) Duly Qualified
10. List FOUR drugs that can be found in the Essential medicines list. **(4 marks)**

SECTION C – ESSAY

1. (a) Define “Nuisance “ according to the Public Health Act Cap 242, Part IX, section 118
(b) Describe the steps required in the disposal of healthcare waste management.
(c) Give the recommended methods of disposal of health care waste
2. Describe the elements of clinical governance
3. Define medication errors and give a description of the different classes of medication errors citing examples