

COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF BIOMEDICAL AND LABORATORY SCIENCES BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS

NSLS300: LABORATORY MANAGEMENT AND ADMINISTRATION END OF SEMESTER FINAL EXAMINATIONS

NOVEMBER 2022

LECTURER: DR S. MUTAMBU

DURATION: 3 HOURS

INSTRUCTIONS

- 1. Write your candidate number on the space provided on top of each page
- 2. Answer **all** questions in sections A on the question paper.
- 3. Answer **all** questions in section B on separate answer sheets provided.
- 4. Answer any **3** questions in section C on separate answer sheets provided
- 5. The mark allocation for each question is indicated at the end of the question
- 6. Credit will be given for logical, systematic and neat presentations in sections B and C

SECTION A: MULTIPLE CHOICE [20 MARKS]

Answer **all questions** by encircling the correct response **T** for **TRUE** or **F** for **FALSE** for each statement in all the questions. Each correct response is allocated a quarter mark.

1.	Medical Laboratory Services are important to all aspects of health care and they should produce
	results that are:

T F a) Accurate
T F b) Reliable
T F c) Technical
T F d) Timely

2. The consequences of inaccurate test results can be very significant and they include:

T F a) Failure to provide the proper treatment

T F b) Delay in correct diagnosis

T F c) Additional and necessary diagnostic testing

T F d) Treatment complications

3. Management is an art in the sense that:

T F a) There is great room for the use of creativity, imagination, initiative and invention within the overall sphere of the occupation

T F b) It includes skills that can be measured, for example in applied sciences like chemistry, physics and medical sciences

T F c) It includes communication skills, motivation and directives

T F d) There are precise elements, scientific and exact aspects that have to be learned and assimilated

4. Each of the following is a statement on the outcome of job analysis:

T F a) Perfomance appraisal

T F b) Job description

T F c) Job specification

T F d) Job evaluation

5. The following statement describes an organogram:

T F a) Organizational chart

T F b) Recruitment method

T F c) Relative ranks

T F d) relationships

6. In financial management, laboratory managers should:

T F a) Use data from past minutes to prepare budgets

T F b) Understand sources of cost information

	T			Determine workload of each laboratory scientist		
	T	F	a)	Know the cost of each test		
7.	The follow	wing are	e part of	revenue of a clinical laboratory:		
	T	F	a)	Reagent purchases		
	T	F	b)	Salaries		
	T	F	c)	Waste disposal payments		
	T	F	d)	Processing tests for another laboratory		
8.	Some of the features of a Laboratory Information Management System are:					
	T	F	a)	Instrument Integration		
	T	F	b)	Storage Location Manager		
	T	F		Billing / Charge Manager		
	Т			Standards and Reagent Manager		
g	The follow	vino vis	snal aids	s are useful for effective presentation:		
•	T	_		Flip charts		
	T		,	Pictures		
	T		,	Word Point		
	T		,	Videos		
10.	Character	istics of	a good	leader include:		
	T		_	Integrity		
	T	F		Charm		
	T	F	,	Trust		
	T	F	d)	Curiosity		
11.	The follow	ving are	e method	ds of staff motivation:		
	T	_		Setting clear mission and vision statements		
	T	F		Adopting a transparent performance management system		
	T	F		Implementing team approach to problem solving		
	T			Recruitment of a dedicated team of employees		
12.	The Benef	fits of a	Quality	Management System (QMS) include:		
,	T		-	Laboratory accreditation		
	T		,	Improved customer satisfaction		
	T			Improved quality of products and services		
	T		,	Better management and a more technical organization		
12	Aims of s	Labou	otomy Ind	Formation Management System (LIMS) are to:		
13.	Aims of a			Formation Management System (LIMS) are to: Enhance the quality of data and accessibility		
	T			Improve laboratory throughput		
	T			Reduce clerical work by skilled scientists		
	T					
	1	Г		Increase compliance to GLP, FDA regulations and ISO andards		

CANDIDATE NUMBER..

14. The following	ng are ko	ey elements of good leadership:				
T	F	a) Vision				
T	F	b) Character				
T	F	c) A good sense of humour				
T	F	d) Authoritativeness				
15. Financial rat	tios imp	ortant to a laboratory manager include:				
T	F	a) Cost per test				
T	F	b) Labour cost per test				
T	F	c) Profit margin per billable test				
T	F	d) Workload per laboratory scientist				
16. The process	of mon	itoring performance, comparing it with goals and correcting any significant				
deviations is	known	as:				
T	F	a) Planning				
T	F	b) Organizing				
T	F	c) Leading				
T	F	d) Evaluating				
17 . The selection	n of an i	individual who is best suited to a particular position and to the organization				
		ential applicants includes:				
T	F	a) Planning				
T	F	b) Recruitment				
T	F	c) Enrolment				
T	F	d) Staffing				
	ng are n	ot a factor in the demand for change to electronic-based				
records:	_					
T	F	a) Need for saving paper				
T	F	b) Need for coordination of care				
T	F	c) Rising health care costs				
T	F	d) Need for reduction of turn-around times				
	tis a sei	t of the following processes:				
T	F	a) Planning				
T	F	b) Budgeting				
T	F	c) Problem solving				
T	F					
1	Г	d) Commanding				
•	_	er who is an honest person and understands how to motivate employees				
possess the following skill(s):						
T	F	a) Sales				
T	F	b) Interpersonal				
T	F	c) Managerial				
T	F	d) Technical				

CANDIDATE NUMBER.....

SECTION B: [20 MARKS]

Answer all questions on separate answer sheets provided.

- 1. Briefly outline the objectives of performance appraisal [5]
- 2. Name at least the 5 rights for stock management? [5]
- 3. State the benefits of a Quality management System (QMS) in a medical laboratory.[5]
- **4.** Briefly explain supply chain management in the medical laboratory [5]

SECTION C: [60 MARKS]

Answer any **3 questions** from this section on separate answer sheets provided.

- 1. Discuss in detail the PDCA cycle of management. [20]
- 2. Giving examples that relate to the medical laboratory environment, discuss the main principles of any Organisational Theory of Management of your choice [20]
- **3.** Discuss in detail the challenges that managers face in the quantification and procurement of medical laboratory commodities. How would you address these challenges? [20]
- **4.** Effective business communication skills are key to a company's success and productivity. Write a detailed account on this statement. [20]
- **5.** In your own words discuss the following aspects of Laboratory Personnel Management:
 - a) Job description [10]
 - **b)** Performance appraisal [10]

THE END