



Faculty of Health Sciences
Higher Diploma in Biomedical Sciences
HD 1153 – English
1st Year 1st Semester
Batch 02
End Semester Assignment Examination



Date : 29th of May 2023

Time: 01.30 pm - 02.30 pm (One Hour)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of TWO questions.
- Answer ALL questions.
- You should write answers in lined papers legibly in black or blue ink.

QUESTION 01 (100 marks)

Read the following passage on World War II and answer the questions based on it. (100 marks)



World War II was a global conflict that lasted from 1939 to 1945. The war involved the majority of the world's nations, including all of the great powers, organized into two opposing military alliances: the Allies and the Axis powers. The war had a profound **impact** on the world, including the loss of millions of lives and the reshaping of global politics.

The war began on September 1, 1939, when Germany, under the leadership of Adolf Hitler, invaded Poland. This **prompted** Britain and France to declare war on Germany. Over the next several years, the Axis powers, which included Germany, Italy, and Japan, made significant gains, capturing much of Europe and Asia. However, the tide of the war turned in favor of the Allies, which included the United States, the United Kingdom, and the Soviet Union, after the Battle of

Stalingrad in 1943. The Allies won a series of key battles, including the Battle of Stalingrad and the Battle of Midway.

In 1944, the Allies **launched** a massive invasion of Nazi-occupied Europe, known as D-Day. This operation marked a turning point in the war and led to the eventual defeat of Germany. The war in Europe ended on May 8, 1945, when Germany surrendered unconditionally to the Allies.

The war in Asia, however, continued until August 15, 1945, when Japan surrendered after the atomic bombings of Hiroshima and Nagasaki. These bombings remain the only use of nuclear weapons in warfare to this day.

World War II saw significant technological advancements in weaponry and military tactics. The war was fought on multiple fronts, including land, sea, and air. The development of new weapons, such as tanks, aircraft carriers, and atomic bombs, made the war more destructive than any previous **conflict**.

The aftermath of World War II had a significant impact on the world. The United States emerged as a superpower, and the war led to the formation of the United Nations, an international organization aimed at promoting peace and cooperation among nations.

- 1. When did the World War II begin and end?
- 2. Which countries made up the Axis powers?
- 3. Which countries were included in the Allied powers?
- 4. What was the main reason for this war to start?
- 5. What can be considered as the turning point in the war in Europe?
- 6. When did the war in Asia end and how did it end?
- 7. What are the fronts where the war continued?
- 8. What are some of the technological advancements in weaponry during the World War II?
- 9. What are the outcomes of the World War II?
- 10. Write the meanings of the bold printed words as they appear in the text:
 - a. Impact:
 - b. Prompted:
 - c. Launched:
 - d. Conflict:
 - e. Aftermath:

QUESTION 02 (100 marks)

Write a paragraph of 100-120 words on your opinion about the impact of social media on human relationships. (100 marks)



Faculty of Health Sciences Higher Diploma in Biomedical Sciences HD 1153 – English 1st Year 1st Semester Batch 02 End Semester SEQ Examination



Date : 29th of May 2023

Time : 09.00 am - 12.00 pm (Three Hours)

INSTRUCTIONS TO CANDIDATES

- This question paper consists of SIX questions.
- Answer ALL questions.
- You should write answers in lined papers legibly in black or blue ink.

QUESTION 01

(100 marks)

1.1 Examine the following paragraph, and answer the questions based on it.

(20 marks)

Evolution: Diversity and Adaptation

Evolution is a fundamental process that has shaped the diversity of life on Earth. All living beings, from the smallest microorganisms to the largest mammals, have evolved over millions of years in response to changing environmental conditions. At its core, evolution is driven by the process of natural selection. In this process, individuals with advantageous traits are more likely to survive and reproduce, passing those traits on to their offspring. Over time, this results in the accumulation of genetic changes that allow organisms to adapt to their environment and become better suited for survival. One of the most remarkable aspects of evolution in living beings is the diversity of life that has emerged from a common ancestry. From bacteria to birds, all living beings share a common genetic heritage and have evolved unique adaptations to their environments. One example of evolution in living beings is the development of flight in birds. Over time, certain species of birds evolved lightweight bodies, strong wings, and efficient respiratory systems that allowed them to fly through the air with ease. This adaptation has allowed birds to explore new habitats, find new sources of food, and escape predators. Overall, the process of evolution has resulted in an incredible diversity of life on Earth, and continues to shape the course of life on our planet. As the environment continues to change, living beings will continue to evolve and adapt in response, ensuring the ongoing survival of life on Earth.

a)	What is the tense used in this paragraph?
b)	What is the voice in the 3 rd sentence which is highlighted in the above paragraph
	(Active/Passive)?

1.2 Identify the following elements from the passage.	(80 marks)
c) A subject	
d) An object	
a) A varia	
f) A transitive verb	
g) An intransitive verb	
h) A superlative adjective	
i) A noun phrase	
i) A noun phrasej) A preposition/ prepositional phrase	
j) it propositions propositional places	
QUESTION 02	(100 marks)
2.1 Identify the voice (Active or Passive) of the following sentences and transf	form them into
the opposite voice.	
1) The lecturer will discuss this note tomorrow.	(20 marks)
	(20 11111110)
(Voice:)	(20 marks)
2) The dog chased the cat.	(20 marks)
(Voice:)	(20
3) He greets everyone with a slight smile.	(20 marks)
(Voice:)	
4) The President of the committee has delivered the welcome speech.	(20 marks)
(Voice:)	
5) Nimali had taken a leave last Friday.	
(Voice:)	(20 marks)
(* 6.66.	,
QUESTION 03	(100 marks)
QUESTION 03	(100 marks)
	(100 marks)
QUESTION 03 3.1 Convert the following sentences into indirect speech.	
	(20 marks)
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receive) a call fi	om my best friend	l. He (16)		(sugg	gest) me to come
over to his place		_ (see) a movie.			
The movie (18)	we decided to	o (19)			
		(have)			
dinner we (21)	(talk)	about the	movie and	how much we
(22)	(e	enjoy) it.			
QUESTION 05					(100 marks)
Hill in the blank	D TITLE COLLEGE CO.				
Fill in the blank Until	Although		If	While	After
	Although				After
Until	Although And	But Because	Unless	For	
Until 1. I really li	Although And ke to go the party	But Because	Unless I hav	For ve to finish my	homework first.
Until 1. I really li 2. Her moth	Although And ke to go the party er cooked in the k	But Because with you	Unless I hav she was l	For ve to finish my istening to mu	homework first.
Until 1. I really li 2. Her moth 3.	Although And ke to go the party er cooked in the k she did	But Because with you citchen_ not study well	Unless I have she was less; she could pass	re to finish my istening to muss the exam.	homework first.
1. I really li 2. Her moth 3. 4. Nishani v	Although And ke to go the party er cooked in the k she did von't be able to at	But Because with you citchen not study well tend the meeti	Unless I have she was less; she could passing	For ye to finish my istening to muss the exam she complete	homework first.
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1. I really li 2. Her moth 3. 4. Nishani v 5. We shall 6. He will n 7. He went	Although And ke to go the party er cooked in the k she did von't be able to at go to the beach ever do any home to bed earlier yest the supermarket	But Because with you citchen not study well tend the meetic the ework erday	Unless I hav she was I ; she could pas ng e weather is go his moth he h cought vegetab	re to finish my istening to muss the exam. she complete bod. her buys him sy ad to be there bles.	homework first. es his report.
1. I really li 2. Her moth 3. 4. Nishani v 5. We shall 6. He will n 7. He went	Although And ke to go the party er cooked in the k she did won't be able to at go to the beach ever do any home	But Because with you citchen not study well tend the meetic the ework erday	Unless I hav she was I ; she could pas ng e weather is go his moth he h cought vegetab	re to finish my istening to muss the exam. she complete bod. her buys him sy ad to be there bles.	homework first. es his report.

"College education should be free for everyone" Do you agree? Write an essay on this topic highlighting your opinion on this statement. You may use 100-150 words.





Faculty of Health Sciences Higher Diploma in Biomedical Sciences HD 1143 - Laboratory Safety & Ethics 1st Year 1st Semester

Batch 02

End Semester SEQ Examination



Date : 26th of May 2023

Time: 09.00 am - 12.00 pm (Three Hours)

- This question paper consists of SIX questions.
- Answer ALL questions.
- You should write answers legibly in black or blue ink.

QUESTION 01	(100 marks)
1.1. What is known as laboratory acquired infections?1.2. List five biohazards handled in the laboratory.1.3. Discuss the safety practices that should be followed when handling sharps.1.4. Describe five standard laboratory practices that should be carried out in the labo handling biohazards.	(15 marks) (20 marks) (25 marks) eratory when (40 marks)
QUESTION 02	(100 marks)
2.1. Mention five universal precautions.2.2. Indicate two safety precautions that should be followed when conducting the followessions.	(15 marks) owing laboratory
2.2.1. Handling a bloodborne pathogen	(10 marks)
2.2.2. Handling a corrosive chemical2.2.3. When drawing a blood sample	(10 marks) (10 marks)
2.3. Compare and contrast surgical mask and N95 masks.	(30 marks)
2.4. Draw a flow chart to denote the proper method of removing isolation gown	
hazardous chemical.	(25 marks)
QUESTION 03	(100 marks)
3.1. Mention two micro-organisms handled in the biosafety level II.	(10 marks)
3.2. Discuss the safety practices that should be followed in biosafety level II.	(30 marks)
3.3. Compare and contrast biosafety cabinet class II and III.	(30 marks)
3.4. Discuss the importance of maintaining biosafety in the laboratory.	(30 marks)

QUESTION 04		(100 marks)
1.1. Define Radioactivity.		(10 marks)
4.2. Draw a caution symbol used to represe 4.3. Write short notes on the following	nt a radioactive material.	(15 marks)
4.3.1. Adverse effects of chronic radi	ation exposure.	(25 marks)
4.3.2. Radiation shielding.		(25 marks)
4.3.3. Radiation postings in the labor	atory.	(25 marks)
QUESTION 05		(100 marks)
5.1. Mention the general contents in a mate	rial safety data sheet.	(25 marks)
		at the laboratory.
5.2.Describe the general precautions you ha	ave to lonow when asing elicimedis	
5.2.Describe the general precautions you ha	ive to follow when using ellermeans a	(30 marks)
5.2.Describe the general precautions you have 5.3. Discuss the precautions that should be 5.4. Draw a poster to denote the steps that should be	taken to prevent fire hazards.	(30 marks) (25 marks)
	taken to prevent fire hazards.	(30 marks) (25 marks)
5.3. Discuss the precautions that should be	taken to prevent fire hazards.	(30 marks) (25 marks)
5.3. Discuss the precautions that should be 5.4. Draw a poster to denote the steps that should be QUESTION 06 6.1. Mention three methods of decontamin 6.2. Describe the incineration process.	taken to prevent fire hazards. nould be carried out to prevent electrical attention followed in the biomedical laboration followed in the biomedical laboration.	(30 marks) (25 marks) c hazards. (20 marks) (100 marks) oratory. (15 marks) (20 marks)
5.3. Discuss the precautions that should be 5.4. Draw a poster to denote the steps that should be QUESTION 06 6.1. Mention three methods of decontamin	taken to prevent fire hazards. nould be carried out to prevent electrical attention followed in the biomedical laboration followed in the biomedical laboration.	(30 marks) (25 marks) c hazards. (20 marks) (100 marks) oratory. (15 marks) (20 marks) techniques followed.
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5.3. Discuss the precautions that should be 5.4. Draw a poster to denote the steps that should be QUESTION 06 6.1. Mention three methods of decontamin 6.2. Describe the incineration process. 6.3. Complete the following table by indicated the contamination of the contamination process. Laboratory items	taken to prevent fire hazards. nould be carried out to prevent electric ation followed in the biomedical laborating the method of decontamination	(30 marks) (25 marks) c hazards. (20 marks) (100 marks) cratory. (15 marks) (20 marks) techniques followed. (40 marks)
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Library



Faculty of Health Sciences

Higher Diploma in Biomedical Science HD 1123 – Introduction to microbiology SEQ Examination - 1st year 1st Semester – Batch 02



Date Time 24th May 2022

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9.00 a.m. to 12.00 p.m.

INSTRUCTIONS TO CANDIDATES

- This question paper consists of SIX question.
- Answer ALL questions.
- You should write answers in lined papers legibly in black or blue ink.

Question 01

(100 marks)

1.1. Compare and contrast simple and differential staining with examples.

(30 marks)

- 1.2. Mention the stains used for following bacterial staining.
 - 1.2.1. Endospore staining
 - 1.2.2. Flagella staining
 - 1.2.3. Acid-fast staining

(30 marks)

1.3. Describe the reason for observing the Acid-Fast bacterial cells in red color after Acid-fast staining.

(40 marks)

Question 02

(100 marks)

- 2.1. A scientist wanted to identify the microorganisms present in a water sample taken from a pond. Therefore he spread 0.1 mL of the water sample on Nutrient Agar medium. For doing this he used many laboratory instruments.
 - a) State whether he had followed "sterilization" or "disinfection" for each of item mentioned below.
 - b) And mention the most **appropriate method** that he can use to achieve sterilization /disinfection of each item accordingly.
 - 2.1.1. Nutrient Agar medium
 - 2.1.2. Petri dishes
 - 2.1.3. Working bench
 - 2.1.4. Inoculation loop
 - 2.1.5. Glass spreader

(75 marks)

2.2. Mention key differences between sterilization and disinfection in microbiology.

(25 marks)

(100 marks)

- 3.1. State an example for each culture media type indicated below.
 - 3.1.1. Enrichment media
 - 3.1.2. Selective media

3.1.3. Differential media (30 Marks)

3.3. Draw the graphical representation and describe on phases of growth in the "bacterial growth curve"

(70 Marks)

Question 04

(100 marks

- 4.1 Mention different methods of transmission of viruses with examples. (25 marks)
- 4.2 Describe the pathogenesis, complication of Varicella zoster. (30 marks)
- 4.3 Describe the viral replication within a host cell. (35 marks)
- 4.4 State the diagnosis test used for viruses.

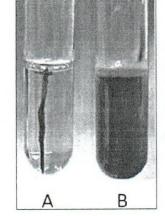
(10 marks)

Question 05

(100 marks)

5.1 Identify the following results of motility test and describe the characters of the microorganisms in tube F & B.

(40 marks)



5.2 State the factors that weakens host defence system and increase the susceptibility of infection.

(20 marks

5.3 Describe the process of development of microbial infection within a host.

(30 mark.

5.4 Differentiate obligate aerobes and facultative anaerobes.

(10 marks)

Question 06

(100 marks)

Describe the bacterial morphology, identification characteristics and the diseases caused by following (100 marks) organisms.

6.1 Neisseria gonorrheae

(25 marks)

6.2 Pseudomonas aeruginosa

(25 marks)

6.3 Salmonella shigella

(25 marks)

6.4 Escherichia coli

(25 marks)





Faculty of Health Sciences

Higher Diploma in Biomedical Sciences

CELL BIOLOGY – HD 1113 1st YEAR 1st SEMESTER -END EXAMINATION SEQ -BATCH 02

Date

2023-05-23

Time

9. 00 A.M - 12.00 P.M (3 HOURS)

- This question paper consists of SIX questions.
- Answer ALL questions.
- You should write legibly in black or blue ink

QUESTION 01	(100 Marks)
1.1 Define the term "cell".	(10 marks)
1.2 Draw a labelled diagram of basic structure of prokaryote.	(20 marks)
1.3 Compare and contrast the structures of eukaryotic and prokaryotic cells.	(30 marks)
1.4 Describe the structure of animal eukaryotic cell.	(40 marks)
QUESTION 02	(100 Marks)
2.1 Define the term of biological membrane.	(20 marks)
2.2 Briefly explain the structure of biological membrane along with an illustration	tion. (40 marks)
2.3 Write the short notes on the following.	(40 marks)
2.3.1 Nucleus	
2.3.2 Ribosome	
2.3.3 Mitochondria	
QUESTION 03	(100 Marks)
3.1 Define the term of cytoskeleton present in eukaryotic cell.	(10 marks)
3.2 List three major components present in cytoskeleton.	(15 marks)
3.3 State five importance of cytoskeleton present in eukaryotic cell.	(25 marks)
3.4 Briefly explain the characteristics of two types of fibers present in cytoske	leton.
	(50 marks)

QUESTION 04	(100 Marks)
4.1 Define the term of cellular junctions present in eukaryotic cells.	(10 marks)
4.2 State four types of cellular junctions present in eukaryotic cells.	(20 marks)
4.3 Draw a labeled diagram of the plasmodesmata.	(20 marks)
4.4 Briefly explain two types of cellular junctions mentioned in section (4.2).	(50 marks)
QUESTION 05	(100 Marks)
5.1 Define the process of cell cycle in eukaryotic cells.	(10 marks)
5.2 Briefly describe the stages of mitosis in eukaryotic cell.	(50 marks)
5.3 Compare and contrast mitosis and meiosis cell divisions.	(40 marks)
QUESTION 06	(100 Marks)
6.1 State four types of biomolecules present in living organism.	(20 marks)
6.2 Briefly describe the structure of deoxyribonucleic acid (DNA).	(40 marks)
6.3 Write the short notes on the following.	(40 marks)
6.3.1 Triglyceride	

6.3.2 Secondary structure of protein.



Faculty of Health Sciences

Higher Diploma in Biomedical Sciences

HD 1113 - Cell Biology

1st Year 1st Semester

Batch 01

End Semester SEQ Examination

INDEX NUN	MBER:	 	
HIDEA NUL	VIDER:	 	

Date: 08th of October 2021

Time: 09.00 am - 12.00 pm (Three Hours) - To answer the questions

12.00 pm - 12.30 pm (30 minutes) - To upload & email the compiled answer script

- This question paper consists of SIX questions.
- Answer ALL questions.
- The paper will be for three hours (9.00 am 12.00 pm). You will be given an extra 30 minutes for submission.
- You should write answers in lined papers legibly in black or blue ink.
- You MUST write your index number in the top right corner of each answer script.
- Answer script should be numbered (right bottom) clearly.
- Photograph of your answer scripts must be taken by keeping them on a clear platform (e.g. table).
- Arrange the photographs of your answer script in a word document in an orderly manner, then convert the word document to a PDF.
- Label the PDF: Your Index No Cell Biology SEQ
- Upload the labelled PDF to LMS AND also email the PDF to Fohs.exams@cinec.edu

QUESTION 01		(100 marks)
1.1. State the components of a typical prokaryot	ic cell.	(10 marks)
1.2. Relate the role of nucleus in controlling the	cell	(30 marks)
1.3. Write short notes on the following.		
i. Golgi apparatus		(20 marks)
ii. Chloroplast		(20 marks)
1.4. Differentiate between rough and smooth en	doplasmic reticulum.	(20 marks)
QUESTION 02		(100 marks)
2.1. State the components of the plasma membra	ane.	(10 marks)
2.2. Mention the factors which helps to maintain	n fluidity of the plasma membrane.	(10 marks)
2.3. Relate the structure of plasma membrane in	relation to its function.	(35 marks)
2.4. Discuss the functions of the membrane prot	reins.	(25 marks)
2.5. Differentiate between endocytosis and exoc	cytosis.	(20 marks)
QUESTION 03		(100 marks)
3.1. Define what is known as the cytoskeleton.		(15 marks)
3.2. State the components of the cytoskeleton.		(15 marks)
3.3. Compare and contrast between two main co	emponents of the cytoskeleton.	(20 marks)
3.4. Justify the structure of flagella in relation to	its function.	(20 marks)
3.5. Discuss about the importance of the cytosko	eleton.	(30 marks)
QUESTION 04		(100 marks)
4.1. State three pathways of vesicular transport.		(15 marks)
4.2. Draw a flow chart to denote the steps of the	e secretory pathway.	(25 marks)
4.3. Relate the structure of the clathrin coat for	its function.	(30 marks)
4.4. Mention two ways in which the secretory v	essels are formed and briefly discuss the	ose methods.
		(30 marks)

QUESTION 05	(100 marks)
5.1. Write short notes on the following.	
i. Polysaccharides.ii. Secondary structure of protein.iii. Unsaturated fatty acids.iv. Nucleic acids.	(25 marks) (25 marks) (25 marks) (25 marks)
QUESTION 06	(100 marks)
6.1. Describe the importance of the interphase stage for the cell cycle.6.2. Draw a diagram to denote the stages of mitosis and briefly describe those stages.6.3. Relate the importance of meiosis in producing genetic variation.6.4. Compare and contrast spermatogenesis and oogenesis processes.	(25 marks) (25 marks) (25 marks) (25 marks)



Faculty of Health Sciences

Higher Diploma in Biomedical Sciences

HD 1123 - Introduction to Microbiology

1st Year 1st Semester

Batch 01

End Semester SEQ Examination

INDEX NUMBER:	INI	D	EX	I	NUI	MBE	R:																
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Date: 15th of October 2021

Time: 09.00 am - 12.00 pm (Three Hours) - To answer the questions

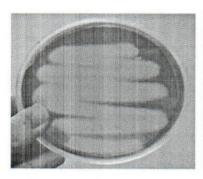
12.00 pm - 12.30 pm (30 minutes) - To upload & email the compiled answer script

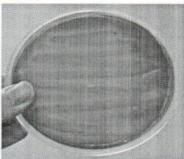
- This question paper consists of SIX questions.
- Answer ALL questions.
- The paper will be for three hours (9.00 am − 12.00 pm). You will be given an extra 30 minutes for submission.
- You should write answers in lined papers legibly in black or blue ink.
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 the word document to a PDF.
- Label the PDF: Your Index No Introduction to Microbiology SEQ
- Upload the labelled PDF to LMS AND also email the PDF to Fohs.exams@cinec.edu

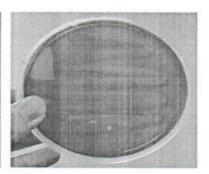
QUESTION 01		(100 marks)
1.1 Differentiate simple and differentia	l staining methods.	(15 marks)
1.2 State the methods of smear fixation		(10 marks)
1.3 Describe types of stains based on the	ne nature of chromogen.	(30 marks)
1.4 Compare the structures of gram pos	itive and gram negative cell wall.	(15 marks)
1.5 State the steps of gram stain technic	que and effect of each step on bacterial cells.	(15 marks)
1.6 Explain the importance of Acid fast	staining.	(15 marks)
QUESTION 02		(100 marks)
2.1 Name the types of asexual reproduc	ction of microbes.	(15 marks)
2.2 Classify the types of microbial cult	ure methods.	(20 marks)
2.3 Describe the stages of a growth cur	ve.	(25 marks)
2.4 State the major factors in the develo	opment of a microbial infection.	(15 marks)
2.5 Describe different types of culture i	media depending on consistency and ingredients of r	nedium.
		(25 marks)
QUESTION 03		(100 marks)
3.1 Define the term Minimum Inhibitor	ry Concentration (MIC).	(10 marks)
3.2 Describe the principle of Simmon's	Citrate and Sugar fermentation biochemical tests.	(20 marks)
3.3 Decribe steps used in Kirby-Bauer	Disk Diffusion Susceptibility Test.	(25 marks)
3.4 Compare the E- test and disc diffus	ion method.	(15 marks)
3.5 Describe the 5 different sub types of	f aerobic and anaerobic microorganisms.	(30 marks)

QUESTION 04 (100 marks)

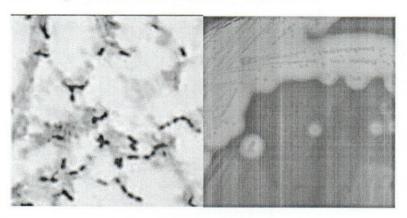
4.1 Identify the following types of hemolysis in blood agar and describe their characteristics. (20 marks)







4.2 A throat swab from a patient was cultured on a blood agar media and a gram stain was performed. The results of the gram stain and specimen cultured media are shown below.



4.2.1 Identify the suspected microorganism.

- (10 marks)
- 4.2.2 Justify your answer with above microscopic and macroscopic results, along with suitable biochemical identification tests. (25 marks)
- 4.2.3 State the virulence factors of this organism.

(15 marks)

4.3 Name the two types of spore forming Bacilli.

(15 marks)

4.4 State the diagnosis methods of Mycobacterium tuberculosis.

(15 marks)

QUESTION 05	(100 marks)
5.1. Describe the bacterial morphology, identification characteristics and the diseases of,	
5.1.1. Pseudomonas aeruginosa 5.1.2. Escherichia coli 5.1.3. Salmonella enterica 5.1.4. Noiscoria generalega	(25 marks) (25 marks) (25 marks)
5.1.4. Neisseria gonorrheae	(25 marks)
QUESTION 06	(100 marks)
6.1 Differentiate plasmid DNA and Chromosomal DNA.	(10 marks)
6.2 Describe the differences between transformation, transduction, and conjugation of bact	erial DNA. (30 marks)
6.3 Describe the properties and characteristics of viruses.	(20 marks)
6.4 Describe the life cycle of viruses.	(20 marks)
6.5 State the methods of transmission of viruses.	(20 marks)



Faculty of Health Sciences

Higher Diploma in Biomedical Sciences

HD-1133 Chemistry for Biomedicine

1st Year 1st Semester

Batch 01

End Semester SEQ Examination

Date : 13th October 2021

Time : 09.00 a.m. - 12.00 - p.m. (Three hours) - To answer the questions
12.00 p.m. - 12.30 p.m. (30 minutes) - To upload & email the compiled answer script

- This question paper consists of SIX questions.
- Answer ALL questions.
- The paper will be for two hours (9.00 a.m. 12.00 p.m.). You will be given an extra 30 minutes for submission. Any submission after 12.30 p.m. will not be accepted.
- You should write the answers in lined sheets legibly in black or blue ink.
- You MUST write your index number in the top right corner of each answer script.
- Answer script should be numbered (right bottom) clearly.
- Photograph of your answer scripts must be taken by keeping them on a clear platform (e.g. table).
- Arrange the photographs of your answer script in a word document in an orderly manner, then convert the word document to a **PDF**.
- Label the PDF: Your Index No Chemistry for Biomedicine SEQ
- Upload the labelled PDF to LMS AND email the PDF to Fohs.exams@cinec.edu

QUESTION 01. (100 marks)

1.1 Write the electronic configuration of Cobalt (Co) element using Aufbau principle. (20 marks)

- 1.2 Consider the electronic configuration of He, 1s². Write the principal quantum number and the azimuthal quantum number in this given electronic configuration. (10 marks)
- 1.3 Consider the Bohr's model which successfully explains the spectral emission lines of atomic hydrogen.
 - 1.3.1 Imagine electron in atomic hydrogen was exited into n=5 energy level.
 - a. Indicate the maximum number of emission lines that can be observed in the hydrogen emission spectrum.

(30 marks)

- b. Write at least 3 of them.
- 1.3.2 Briefly describe the reason to obtain spectral of emission lines of atomic Hydrogen (30 marks)

QUESTION 02. (100 marks)

- 2.1 Describe what happens to following properties of any given element across a period from left to right. (30 marks)
 - a. atomic radii
 - b. electron affinity
- 2.2 Indicating all the steps you follow, predict the Lewis structure of PH₃ molecule. (20 marks)
- 2.3 Indicating all steps you follow, predict the Lewis structure and the name of molecular structure of SO₂. (30 marks)
- 2.4 Sort **covalent, ionic, and polar covalent** bond types in the increasing order of electronegativity difference between bonding atoms. (20 marks)

QUESTION 03. (100 marks)

- 3.1 Consider the molecule of glucose, $C_6H_{12}O_6$ ($M_H=1$ g/mol, $M_C=12$ g/mol, $M_O=16$ g/mol)
 - a. Calculate the molar mass of glucose molecule. (20 marks)
 - b. Imagine you need to prepare a solution that contains 2.45×10^{23} glucose molecules.

 Calculate the glucose mass you need to dissolve to achieve this. (30 marks)

- 3.2 Determine the oxidation states of the manganese (Mn) atom in each of the following species. (20 marks)
 - a. MnO₃F
 - b. H₂MnO₄
- 3.3 Balance the equation: $I^- + Br_2 \rightarrow IO_3^- + Br^-$ in acidic medium.

(30 marks)

QUESTION 04.

(100 marks)

4.1 Indicate four main types of intermolecular forces.

(20 marks)

- 4.2 Formalin (formaldehyde) 40.0% (by mass) solution is used to preserve biological specimens. This solution is prepared by mixing formaldehyde with water. Calculate **how many grams** of water must be added to 425 g of formaldehyde to prepare a 40.0% (by mass) solution of formaldehyde?
 - HINT: Substitute the known quantities into the definition for mass percent, and then solve for the unknown quantity (mass of solvent). (40 marks)
- 4.3 Formalin is an aqueous solution of formaldehyde, HCHO, used as a preservative for biologic specimens. How many grams of formaldehyde must be used to prepare 2 L of 2 M formalin? (25 marks)
- 4.4 What is the volume of 12M HCl, needed to prepare 0.75 L of 0.25 M HCl?

(15 marks)

QUESTION 05.

(100 marks)

5.1 What is a buffered solution?

- (10 marks)
- 5.2 Briefly explain the mechanism of buffering action using the buffering system CH₃COOH, CH₃COONa. Use relevant chemical reactions as needed. (30 marks)
- 5.3 Identify and name the functional groups of the compounds given below.

(20 marks)

- a. R-NH₂
- b. CH₃OCH₃
- c. CH₃COC₂H₅
- d. CH₃CN
- 5.4 Write the IUPAC name of the following molecule.

(15 marks)

Br

hexane bp = 69°C

3-hexanone bp = 123 ℃

3-hexanol bp=135°C

QUESTION 06.

(100 marks)

6.1 "Alkali metals are highly reactive with air and reactivity increases down the group". State 04 chemical reactions and the storage conditions of alkali metals to support this statement.

(30 marks)

- 6.2 "Solubility of hydroxides of alkaline earth metals increases down the group". Briefly describe this trend. (20 marks)
- 6.3 Use the following information to solve questions a, b & c.

(15 marks)

Given the rate law equation:

$$\mathrm{rate} = k[A]^1[B]^2$$

- a- Determine the reaction order with respect to A
- b- Determine the reaction order with respect to B
- c- Determine the total reaction order (n) for the equation.
- 6.4 The Cell diagram for the Cd/Ag cell is given below.

a. Identify the anode and write the anode reaction.

(10 marks)

b. Write the cathode reaction.

(05 marks)

6.5 Briefly describe what happens in a galvanic cell. (Hint: Two electrodes are physically separated). (20 marks)



Faculty of Health Sciences Higher Diploma in Biomedical Sciences

HD 1143 – Laboratory Safety & Ethics

1st Year 1st Semester

Batch 01

End Semester SEQ Examination

INDEX NUMBER:	IND	EX	NUMBER:					
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Date: 18th of October 2021

Time: 09.00 am - 12.00 pm (Three Hours) - To answer the questions

12.00 pm - 12.30 pm (30 minutes) - To upload & email the compiled answer script

- This question paper consists of SIX questions.
- Answer ALL questions.
- The paper will be for three hours (9.00 am 12.00 pm). You will be given an extra 30 minutes for submission.
- You should write answers in lined papers legibly in black or blue ink.
- You MUST write your index number in the top right corner of each answer script.
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- Arrange the photographs of your answer script in a word document in an orderly manner, then
 convert the word document to a PDF.
- Label the PDF: Your Index No Laboratory Safety & Ethics SEQ
- Upload the labelled PDF to LMS AND also email the PDF to Fohs.exams@cinec.edu

QUESTION 01 (100 marks) 1.1. Describe safety precautions you would like to take during laboratory work. (20 marks) 1.2. Discuss the code of professional conduct that should be followed by medical laboratory personal. (30 marks) 1.3. Mention the laboratory personal responsible to maintain safety in the laboratory. (10 marks) 1.4. Discuss the importance of immunizing the laboratory staff. (30 marks) **QUESTION 02** (100 marks) 2.1. Define Personal protective equipments. (10 marks) 2.2. Mention five personal protective equipments. (15 marks) 2.3. Name the personal protective equipments that you should use when performing the following experiments. (20 marks) i. When drawing blood from a patient ii. When handling a sputum sample iii. When handling a combustible chemical iv. When dealing with a carcinogenic chemical 2.4. Compare and contrast surgical mask and N95 masks. (30 marks) 2.5. Draw a flow chart to denote the proper method of removing gloves after handling a hazardous chemical. (25 marks) **QUESTION 03** (100 marks) 3.1. Define Biohazard. (10 marks) 3.2. State the precautions that should be taken when handling a biohazard. (20 marks) 3.3. Discuss the steps that should be taken to prevent fire hazards. (30 marks) 3.4. Mention the precautions that should be taken when handling each of the following chemicals. (40 marks)

Name of the laboratory items	Precautions that should be taken
Flammable chemical	
Carcinogen	
Corrosive chemical	
Oxidizing chemical	

QUESTION 04	(100 marks)
4.1. State the main types of radiation.	(10 marks)
4.2. Define radioactivity.	(15 marks)
4.3. Draw a caution symbol used to represent a radioactive material	(15 marks)
4.4. Describe the biological effects of radiation exposure.	(30 marks)
4.5. Describe the standard practices followed in laboratories to safeguard the laboratories of radiation.	oratory staff from (30 marks)
QUESTION 05	(100 marks)
5.1. Imagine that you are a conducting a research involving influenza virus. Melevel that should be maintained in the laboratory.	ention the biosafety (10 marks)
	(10 marks) attioned in 5.1 above.
level that should be maintained in the laboratory.	(10 marks)
level that should be maintained in the laboratory. 5.2. Discuss the standard laboratory practices followed in the biosafety level men	(10 marks) ationed in 5.1 above. (35 marks)

QUESTION 06 (100 marks)

6.1. Mention 3 safety precautions that should be followed when discarding microbiology laboratory waste.

(15 marks)

6.2. State the method of disposal of the following laboratory waste. (40 marks)

Name of the laboratory waste	Method of disposal
Broken glassware	
Contaminated cotton	
Sputum samples	
Urine samples	

- 6.3. Describe the standard laboratory practice that should be followed when transporting laboratory waste. (20 marks)
- 6.4. Discuss the importance of waste management for the biomedical science laboratory. (25 marks)



Faculty of Health Sciences

Higher Diploma in Biomedical Sciences

HD 1153 - English

1st Year 1st Semester

Batch 01

End Semester SEQ Examination

IN	M	FX	N	III	ARI	R.	
	1D	LA	11	UIV	IDI	11.	

Date: 06th of October 2021

Time: 09.00 am - 12.00 pm (Three Hours) - To answer the questions

12.00 pm - 12.30 pm (30 minutes) - To upload & email the compiled answer script

- This question paper consists of SIX questions.
- Answer ALL questions.
- The paper will be for three hours (9.00 am 12.00 pm). You will be given an extra 30 minutes for submission.
- You should write answers in lined papers legibly in black or blue ink.
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- · Label the PDF: Your Index No -English SEQ
- Upload the labelled PDF to LMS AND also email the PDF to Fohs.exams@cinec.edu

Question 01 (100 Marks)

Read the passage and answer the questions given below.

1. We are living in a world driven by technology. The advancement of technology has played an important role in the development of human civilization. Technology provides innovative ways of doing work through various smart means. The electronic appliances, gadgets, faster modes of transport have added to the comfort factor in our lives. It has helped in improving the productivity of an individual. Technology has brought a revolution in many operational fields. It has undoubtedly made a very important contribution to the progress that mankind has made over the years. Technology has reduced the effort and time and increased the efficiency of the production requirement in every field. It has made our life easy, comfortable, healthy, and enjoyable. It has brought a revolution in transport and communication. The advancement of technology along with science has helped us to become self-reliant in all spheres of life.

2. Technology has changed our day-to-day life. Those days have gone when only the rich could afford the luxuries. Due to the growth of globalization and liberalization, all the luxuries are within the reach of a common man. Today, an average middle-class family can afford a television, washing machine, refrigerator, computer, Internet, etc. At the touch of a switch, a man can witness any event that is happening in far-off places. Technology has not only improved the quality of life but also brought about revolutions in various fields. With the advent of technology in communication which includes telephone, fax machine, cellular phone, Internet, multimedia, email, and communication has become much faster and easier. It has transformed and influenced relationships in many ways. We no longer need to rely on sending physical letters and wait for several days for a response. Technology has made communication so simple that you can connect with anyone from anywhere by calling via mobile phone or messaging them.

1. What has made the luxuries common to all man-kind?

(20 marks)

2. How has technology made our life easier? Support your answer referring to the text.

(20 marks)

- 3. Do you agree with the author's statement that, 'technology has transformed and influenced relationships'. Support your answer referring to the text. (20 marks)
- 4. State the advantages of technology as mentioned in the passage.

(20 marks)

5. State the disadvantages of technology. Support your answer with your experience.

(20 marks)

Question 02 (100 marks)

Fill in the blanks with the words given below in the box. (The first one has been done for you).

	object along rubbing loo picked up yo	oking genie	lamp	wishes thirsty	
2	genie. "Now you rery 13, the bot the same thing h	ning and fell going. "What is lover. "I have no out of it. "You may have 12 "I wan," said the gen the bottle arttle filled itself nappened again. wishes 20	on the 3 s this?" he sever seen 7 and as he 9 Thave just 11	vishes." "Great! 14 ced one 16 Ill the lemonad Sammy drank azing!" he said.	. He wasn' up the like it before.' rubbing it, a me from the ", said Sammy that never the in one go all that, and "Thanks very
Question 03					(100 marks)
Part A					(50 marks)
Put the verbs in the	he brackets into th	he correct tense	2.		
my favourite show (never / miss) a sin the electricity sudd the telephone con	three times a wee ngle episode. Last enly 5mpany. "What 6. e / have) electricit x the problem. So y enough, I 10	ek. In fact, unti Saturday, while (go off). Aft ty again?" The	I about a weed I 4er waiting for (happen) man I spoke(not y	ek ago, I 3 (sit) in fit about an hour, I?" I asked the to said it 8 vatch) my favou	ront of the TV, finally phoned em. "When 7.

She said.....

Questi	on 05	(100 marks)					
Change the following sentences into passive voice.							
1.	They make these cars in Japan.	(10 marks)					
2.	You must not drop litter in the street in Singapore or you'll get a fine.	(10 marks)					
3.	Someone smashed our window last night.	(10 marks)					
4.	They have already mended the TV set.	(10 marks)					
5.	People will need more public transport in the near future.	(10 marks)					
6.	They are decorating the walls.	(10 marks)					
7.		(10 marks)					
8.	People are spending less money on cars this year.	(10 marks)					
9.	They had cooked the meal before 10 o'clock.	(10 marks)					
10.	Someone was building the wall.	(10 marks)					

Question 06

(100 marks)

Write an essay on:

Do you think that movies can be considered as a good source of information for students? Why or why not?

Give your reasons and provide examples.

Word limit 175 - 200

Important! - You will be penalized if you exceed the word limit.