



AMERICAN INTERNATIONAL UNIVERSITY – BANGLADESH (AIUB)

SET A

NAME:									
ROLL NO:			–					–	
Bachelor of Pharmacy (BPharm)									

Proctor's Signature

Please read the following instructions carefully:

- Total Marks : **100**
- Total Time : **100 minutes**
- There are three sections of the test booklet. Number of question and marks distribution are as follows:

Section	Contents		Number of questions	Marks
A	Essay Writing		1	**
B	Quantitative	Chemistry	13	(13x2) = 26
		Biology	13	(13x2) = 26
		Physics	9	(9x2) = 18
C	Verbal		15	(15x2) = 30

** Answering this section (A) is mandatory. It will be evaluated by the viva board to judge the writing ability.

- **DO NOT** write your **Roll Numbers** in the ID/ROLL NO section of the OMR Sheet. The Proctor will write the ROLL NO. **FILL** other sections of the OMR Sheet.
- Then **DARKEN** the appropriate circles according to your ROLL NO in the OMR Sheet.
- **WRITE SET NAME IN THE OMR SHEET**
- **RETURN THE QUESTION PAPER AT THE END OF THE EXAM.**
- Use the given space of the test booklet to answer **SECTION A**. No extra paper will be provided.
- Use the OMR sheet to answer **SECTION B & C**.
- Use of **CALCULATOR IS NOT ALLOWED**. Use blank spaces of your test booklet for rough works/computation. **DO NOT USE THE TOP SHEET (FRONT OR BACK)** of the test booklet for **ROUGH** works/computation.
- You can choose **ONLY ONE** option in your answers (i.e., **A** or **B** or **C** or **D** or **E**). If you circle more than one option, the answer would be treated as **INVALID**.
- It is recommended that you use **HB pencil** to fill the **OMR** sheet. You may use pen to fill the circles, but in that case, you will not be able to erase your answer and correct it in case of mistake.
- Once you write your name and roll number in the answer script and start answering the question **YOU CANNOT REQUEST FOR AN EXTRA ANSWER SHEET, OR YOU CANNOT CHANGE YOUR ANSWER SHEET WITH A NEW ONE.**

SECTION A: Essay Writing

(Complete your essay within the space given below. **No extra page** will be given, **Maximum 3 paragraphs**)

“Importance of PHYSICAL EXERCISE for maintain overall health”

SAMPLE

SECTION B: QUANTITATIVE SECTION (35 x 2 = 70)
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1.	Which one is the weakest acid? (A) Hydrochloric acid (B) Citric acid (C) Sulfuric acid (D) Nitric acid (E) None
2.	Which one of the following is a polar molecule? (A) CCl ₄ (B) CH ₄ (C) HCl (D) Both (A) and (B) (E) None
3.	Which one is the correct order of electron affinity-- (A) F<Cl>Br>I (B) F>Cl>Br>I (C) F<Cl<Br<I (D) F>Cl I (E) None
4.	Which compound is preserved under water? (A) Benzene (B) Sodium (C) Sulphur (D) White phosphorus (E) None
5.	Which one is the chemical name of washing soda? (A) Sodium chloride (B) Sodium hydroxide (C) Sodium carbonate (D) Calcium carbonate (E) None
6.	Which of the following is a noble gas? (A) Hydrogen (B) Oxygen (C) Carbon dioxide (D) Helium (E) None
7.	Which one of the following is the symbol of lead? (A) Ag (B) Hg (C) Sn (D) Au (E) Pb
8.	Which acid is present in sour milk? (A) Acetic acid (B) Citric acid (C) Hydrochloric acid (D) Lactic acid (E) None
9.	What compound is responsible for thinning of ozone layer? (A) NO ₂ (B) CFC (C) N ₂ (D) CO ₂ (E) None
10.	Which of the following is toxic in nature? (A) Toluene (B) NaCl (C) CaCl ₂ (D) CaCO ₃ (E) None
11.	Which one is the lightest element? (A) Benzene (B) Helium (C) Oxygen (D) Hydrogen (E) Carbon
12.	Organic compounds are those that contain- (A) phosphorus and water (B) nucleotides and silicon (C) water and oxygen (D) carbon and hydrogen (E) None
13.	The smallest unit/constituents of matter is called- (A) atom (B) nucleus (C) molecule (D) electron (E) None
14.	Who is known as the father of Taxonomy? (A) Louis Pasteur (B) Carolus Linnaeus (C) Aristotle (D) Antonie van Leeuwenhoek (E) None
15.	Bacteria are considered prokaryotic because they lack- (A) true nucleus (B) cell wall (C) cytoplasm (D) ribosome (E) None

16.	How many chromosomes are normally found in human somatic cells? (A) 22 (B) 23 (C) 42 (D) 44 (E) 46
17.	Which animal is the carrier of Nipah Virus? (A) Mosquito (B) Chicken (C) Rat (D) Bat (E) Fish
18.	Which one is the largest phylum of the animal kingdom? (A) Arthropoda (B) Chordata (C) Nematoda (D) Mollusca (E) Annelida
19.	Which of the following is a carbohydrate? (A) DNA (B) insulin (C) wax (D) sucrose (E) None
20.	In plant cells, chlorophyll is found in- (A) Nucleus (B) Mitochondria (C) Chloroplasts (D) ER (E) None
21.	Which mineral's deficit causes anemia? (A) Calcium (B) Iodine (C) Iron (D) Copper (E) None
22.	Which blood cells ingest and destroy microorganisms? (A) Red Blood Cells (B) White Blood Cells (C) Hemoglobin (D) Platelet (E) None
23.	Blood plasma contains _____ of water. (A) 40% (B) 55% (C) 65% (D) 90% (E) None
24.	Bacteriophage is a type of- (A) Bacteria (B) Virus (C) Fungi (D) Algae (E) None
25.	After completion of cell division, the newly produced cells are known as- (A) Mother cell (B) Daughter cell (C) Sister Cell (D) Both (A) & (B) (E) None
26.	Earthworms breathe through their- (A) lungs (B) skin (C) gills (D) trachea (E) None
27.	Which law of Newton helps in finding the reaction forces on a body? (A) First law (B) Second law (C) Third law (D) Fourth law (E) None
28.	Electrical energy is converted through an electric bulb into- (A) light energy (B) heat energy (C) atomic energy (D) light and heat energy (E) None
29.	The equation $E = mc^2$ was invented by: (A) Isaac Newton (B) Albert Einstein (C) Nikola Tesla (D) Marie Curie (E) None
30.	In which medium, does sound travel the fastest? (A) Air (B) Vacuum (C) Water (D) Steel (E) Same in all media
31.	Which is more suitable for cooling hot objects? (A) Cold water (B) Cooled air (C) Ice (D) All are the same (E) None
32.	Which nuclear reactions is responsible for the energy produced by the Sun? (A) Nuclear fission (B) Nuclear fusion (C) Radioactive decay (D) Alpha decay (E) None

33.	Which of the following particles has a negative charge and is involved in beta decay? (A) Proton (B) Neutron (C) Electron (D) Positron (E) None
34.	One kilowatt hour is equal to- (A) 1000 J (B) 3600 J (C) 3.6×10^6 J (D) 6000 J (E) None
35.	If the distance between two objects is doubled, the value of gravitational force between them becomes_ of the original force. (A) half (B) one-third (C) one-fourth (D) double (E) None

SECTION C: VERBAL SECTION (15 X 2 = 30)

PART A: WORD ANALOGY	
<i>Choose the item which is related to the word—the way the words of the first pair are related.</i>	
	Example: long: short; beautiful: <u>ugly</u> (A) pretty (B) ugly (C) gorgeous (D) witch
36.	Light : Sun; Heat : _____ (A) Electricity (B) Fire (C) Water (D) Air
37.	Library : Student; Kitchen : _____ (A) Cooking (B) Meal (C) Customer (D) Chef
38.	Stethoscope : Heart beat; Temperature : _____ (A) Heat (B) Scale (C) Mercury (D) Thermometer
PART B: VERBS/TENSES	
<i>Choose the correct usage of tenses:</i>	
39.	All of my cousins _____ in China's Assumption University's Ph.D. program. (A) will enroll (B) enroll (C) are admitting (D) will admit
40.	They _____ lunch when the door rang. (A) had (B) were having (C) have had (D) are having
41.	She _____ her daughter to school before she goes to work. (A) takes (B) taking (C) has taken (D) took
PART C: PREPOSITIONS/CONJUNCTIONS	
<i>Choose the correct word(s) to fill in the gaps or correct answer for the unlined word(s):</i>	
42.	Since the man was walking _____ the road the bus hit him. (A) across (B) between (C) under (D) from (E) about
43.	My friend Kamal is named _____ his grandfather. (A) after (B) to (C) over (D) by (E) about
44.	The workshop will continue _____ the original plan of action. (A) as far as (B) as well as (C) according to (D) by means of (E) as long as
PART D: SPELLING	
<i>Choose the correct spelling of the following words:</i>	
45.	(A) Deference (B) Defferance (C) Defference (D) Deferance

46.	(A) Foreign	(B) Foreine	(C) Fariegn	(D) Forein
47.	(A) Lieaftenant	(B) Leaftenant	(C) Leiftenant	(D) Lieutenant
<u>PART E: NOTIFYING ERROR</u>				
<i>Read the following sentences and look carefully at each of the underlined words/group of words. Choose the portion in each of them which has error.</i>				
48.	<u>Bread and butter</u> <u>are always</u> <u>his favorite</u> <u>breakfast.</u>			
	A	B	C	D
49.	<u>I accepted advice</u> <u>of booking the tickets in advance</u> <u>for the vacation and</u> <u>did it</u> immediately.			
	A	B	C	D
50.	<u>Admission into this university</u> <u>will be dependent</u> <u>on the marks</u> <u>you score</u> in the admission test.			
	A	B	C	D

-- End --

SAMPLE