



AMERICAN INTERNATIONAL UNIVERSITY – BANGLADESH (AIUB)

SET A

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|-------------------------------|--|--|---|--|--|--|--|---|--|
| 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 |
| | | Biology | 13 |
| | | Physics | 9 |
| 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.**

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| SECTION A: Essay Writing |
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(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

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| 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 |

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| 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 |

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| 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

Choose the item which is related to the word—the way the words of the first pair are related.

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| | 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

Choose the correct usage of tenses:

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| 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

Choose the correct word(s) to fill in the gaps or correct answer for the unlined word(s):

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|-----|---|
| 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

Choose the correct spelling of the following words:

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| 45. | (A) Deference (B) Defferance (C) Defference (D) Deferance |
|-----|---|

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|--|--|----------------|----------------|-----------------------|
| 46. | (A) Foreign | (B) Foreine | (C) Fariegn | (D) Forein |
| 47. | (A) Lieaftenant | (B) Leaftenant | (C) Leiftenant | (D) Lieutenant |
| <p style="text-align: center;"><u>PART E: NOTIFYING ERROR</u></p> <p><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></p> | | | | |
| 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 --