B.Pharm (Mathematics) ADMISSION TEST

INSTRUCTIONS

- **The Entrance Test will be of 60 mins**
- **The booklet has five Sections-**

PHYSICS	**10 Questions**	**(10 X 1 = 10)**
MATHEMATICS	**10 Questions**	**(10 X 1 = 10)**
CHEMISTRY	**10 Questions**	**(10 X 1 = 10)**
ENGLISH	**10 Questions**	**(10 X 1 = 10)**
APTITUDE & REASONING	**10 Questions**	**(10 X 1 = 10)**

  All questions carry equal marks
- **For each correct answer 1 mark will be awarded. There is no negative marking**
- **Answer to be given by ticking the correct option**
- **Use ball pen or dot pen only**
- **All the rough work should be done on the rough sheet provided.**

MM- 50   **Time- 60 Mins**

Details of the candidate

Name ....

Father's Name ....

Course Applied for ....Contact...

PHYSICS

1. **An artificial Satellite revolves round the Earth in circular orbit, which quantity remains constant?**
    A. Angular Momentum
    B. Linear Velocity
    C. Angular Displacement
    D. one of these

2. **If electrical conductivity increases with the increase of temperature of a substance, then it is a:**
    A. Conductor
    B. Semiconductor
    C. Insulator
    D. Superconductor

3. **Which law is also called the law of inertia?**
    A. Newton's first law
    B. Newton's Second Law
    C. Newton's Third Law
    D. All of these

4. **When a ray of light enters a glass slab from air**
    A. its wavelength decreases
    B. its wavelength increases
    C. its frequency increases
    D. neither its wavelength nor its frequency changes

5. **An air bubble in water will act like a**
    A. convex lens
    B. convex mirror
    C. concave lens
    D. concave mirror

6. **With the increase of pressure, the boiling point of any substance**
    A. Increases
    B. Decreases
    C. Remains Same
    D. Becomes zero

7. **The phenomenon of interference is based on**
    A. Conservation of momentum.
    B. Conservation of energy.
    C. Conservation of momentum and energy.
    D. Quantum nature of light.

8. **The electric motor converts**
    A. Electrical energy into mechanical energy
    B. Mechanical energy into electrical energy
    C. Electrical energy into light energy
    D. None of these

9. If a lift is going up with acceleration, the apparent weight of a body is
  A.   More or less the true weight
  B.   Equal to the true weight
  C.   Less than the true weight
  D. More than the true weight

10.   Curie temperature is the temperature above which
  A.   a ferromagnetic material becomes paramagnetic.
  B.   a ferromagnetic material becomes diamagnetic.
  C.   a paramagnetic material becomes diamagnetic.
  D.   a paramagnetic material becomes ferromagnetic.

MATHEMATICS

1. HCF of 8, 9, 25 is-
    (a) 8   (b) 9   (c) 25   (d) 1

2. In A Triangle ABC, DE || (parallel) to AB. If CD = 3 cm, EC = 4 cm, BE = 6 cm, then DA is equal to
    (a) 7.5 cm   (b) 3 cm   (c) 4.5 cm   (d) 6 cm

3. In a rectangle Length = 8 cm, Breadth = 6 cm. Then its diagonal =_____?
    (a) 9 cm   (b) 14 cm   (c) 10 cm   (d) 12 cm

4. What is the area of a semi–circle of radius 5 cm?

    (a) 78.57 cm   (b) 71.42 cm   (c) 63.18 cm   (d) 79.86 cm

5. To draw a pair of tangents to a circle which are inclined to each other at an angle of 35°, it is required to draw tangents at the end-points of those two radii of the circle, the angle between which is
    (a) 145°   (b) 130°   (c) 135°   (d) 90°

6. The product of a rational and irrational number is
    (a) rational   (b) irrational   (c) both of above   (d) none of above

7. The product of three consecutive positive integers is divisible by-
    (a) 4   (b) 6   (c) no common factor   (d) only 1

8. Which number is divisible by 11?
    (a) 1516   (b) 1452   (c) 1011   (d) 1121

9. There are 312, 260 and 156 students in class X, XI and XII respectively. Buses are to be hired to take these students to a picnic. Find the maximum number of students who can sit in a bus if each bus takes equal number of students
    (a) 52   (b) 56   (c) 48   (d) 63

10. Three farmers have 490 kg, 588 kg and 882 kg of wheat respectively. Find the maximum capacity of a bag so that the wheat can be packed in exact number of bags.
    (a) 98 kg   (b) 290 kg   (c) 200 kg   (d) 350 kg

CHEMISTRY

1. **Heat conduction is the property of-**

    (a) Non-metal   (b) Metal

    (c) Metalloids   (d) All of these

2. **An example of fossil fuel is-**

    (a) Wood   (b) Animal waste

    (c) Coal   (d) All of these

3. **An electrolyte is-**

    (a) a metal   (b) a solution

    (c) a liquid that conducts current   (d) all of above

4. **The process of transferring charge from charged body to earth is called:**

    (a) Transferring   (b) Processing

    (c) Charging   (d) Earthing

5. **Green House gases includes-**

    (a) CO_2, Methane, Nitrous oxide   (b) CO_2, Argon, Nitrous oxide

    (c) CO_2, Methane, Chorine   (d) CO_2, Methane, Fluorine

6. **Magnesium ribbon is rubbed before burning because it has a coating of-**
    (a) basic magnesium carbonate   (b) basic magnesium oxide
    (c) basic magnesium sulphide   (d) basic magnesium chloride

7. **Oxidation is a process which involves-**
    (a) addition of oxygen   (b) addition of hydrogen
    (c) removal of oxygen   (d) removal of hydrogen

8. **When Ag is exposed to air it gets a black coating of** -
    (a) $AgNO_3$ (b) Ag_2S (c) Ag_2O (d) Ag_2CO_3

9. **A substance added to food containing fats and oils is called-**
    (a) Oxidant   (b) Rancid   (c) Coolant   (d) Antioxidant

10. **What chemicals are used in fireworks?**
    (a) Copper chloride   (b) Calcium chloride   (c) Barium chloride   (d) All of above

ENGLISH

FILL IN THE BLANKS

1. I _____ tennis every Sunday morning.
   - A. playing
   - B. play
   - C. am playing
   - D. am play

2. How many students in your class _____ from Korea?
   - A. comes
   - B. come
   - C. came
   - D. are coming

3. The phone _____ can you answer it, please?
   - A. rings
   - B. ring
   - C. rang
   - D. is ringing

4. John failed his exams because he was always out with his friends when he _____.
   - A. should have been studying
   - B. used to study
   - C. must have been studying
   - D. will have studied

5. Mr. Berry feels that the world today is not _____ it was during his childhood.
   - A. too safe for
   - B. so safe that
   - C. the safest that
   - D. as safe as

6. **"To end in smoke" means-**
   A. To make completely understand
   B. To ruin oneself
   C. To excite great applause
   ` D. To overcome someone

7. **"A black sheep" means-**
   A. An unlucky person   B. A lucky person   C. An ugly person   D. None of these

(8to10) Sentence Correction

8. What <u>are</u> needed are not large flowers but small buds.
   A. were   B. Was   C. Is   D. No improvement

9. Hardly had I finished writing the letter before Anil arrived.
   A. then   B. While   C. When   D. as

10. He plays cricket and tennis also .
   A. both   B. Besides   C. Too   D. No improvement

QUANTITATIVE APTITUDE & REASONING

1. **Pick the odd number out- 8, 27, 64, 100, 125, 216, 343**
   a) 125 (b) 100 (c) 27 (d) 343

2. **Swatch Bharat Abhiyan was successful because it is a-**
   (a) Formal way (b) lateral way (c) Interpersonal way (d) Mass communication

3. **According to a schedule, the restaurant's floors are occupied on either…**
   a). Tuesday or Wednesday b). Tuesday or Thursday
   c). Wednesday or Thursday d). Thursday or Friday

4. **CNG: PETROL: DIESEL: ……..?**

   a) Engine b) Car c) Fuel d) Fire

5. **Pizza, _____, Burger, Sandwich**
   a) Finger chips b) Burger king c) Ice cream d) pea pulav

6. In a row of children, Divya is **7th** from the left and Vijay is **9th** from the right. When they interchange their places among themselves, Divya becomes **18th** From the left. Then what will be Vijay's present position from the right?
   a) 6th b) 16th c) 26th d) 20th

7. How many person(s) are heavier than the one who is second shortest?
   a) None b) Two c) Four d) One

8. A committee of 3 members is to be made out of 6 men and 5 women. What is the probability that the committee has at least two women?
   a) 14/37 b) 14/33 c) 16/33 d) 14/23

9. A is 30% more efficient than B. How much time will they, working together, take to complete a job which A alone could have done in 23 days?
   a) 9 days b) 11 days c) 15 days d) 13 days

10. Prattyush asked me to keep this secret _____.
    a) Secret b) in myself c) amongst us d) between us

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BIOLOGY

1. Hibiscus –rosa – sinensis belongs to family
   a) Malvaceae b) solanaceae c) Graminae d) Rutaceae\

2. Which blood group is known as Universal donor?
   a) A+ b) A- c) AB d) O

3. The disease caused by deficiency of protein in children is called
   a) Pellagra b) Marasmus c) Beri-Beri d) Rickets

4. Human blood is a viscous fluid due to
   a) Platelets in plasma b) Proteins in blood c) RBC and WBC in blood d) Sodium in serum

5. Energy is required fin Which Process
   a) Simple diffusion b) Facilitated diffusion c) Osmosis d) Active transport.

6. Cells involved with protection, support, and nourishment within the nervous system are called
   a) Neurons b) Glial cells c) impulse conducting cells d) nerves.

7. Which is responsible for the process of cell division?
   a) Mitosis b) Heterosis c) Fusion d) Fission

8. Plants that grow in saline water are known as :
   a) Hydrophytes b) Thallophytes c) Talophytes d) Mesophytes

9. Total number of chromosomes in human are
   a) 48 b) 46 c) 50 d) 44

10. Fertilization usually occurs in the-
    a) Uterus b) Ovarian follicle c) Ampulla of the fallopian tube d) Abdomino pelvic cavity

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