

# THE UNIVERSITY OF CHENAB



Department of Allied Health Sciences  
BS Optometry & Vision Science

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Programs Offered by the Department of Allied Health Sciences	
Degree Name	Degree Details/Eligibility Criteria
<b>Optometry &amp; Vision Sciences</b>	The Optometry & Vision Sciences program is of 4-years duration, spread over 8 regular semesters, after completing twelve years of higher secondary school certificate or equivalent. At least, 50% marks in intermediate or equivalent are required for admission in BS Optometry & Vision Sciences



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**Multiple Choice Questions**

**English (10 % Questions)**

1. Choose the correct synonym of 'Abundant':
  - A) Rare
  - B) Plentiful
  - C) Scarce
  - D) Tiny
2. Choose the correct antonym of 'Hostile':
  - A) Friendly
  - B) Angry
  - C) Bitter
  - D) Harsh
3. Identify the correct spelling:
  - A) Accomodate
  - B) Acommodate
  - C) Accommodate
  - D) Acommadate
4. Select the word that best completes the sentence: She is \_\_\_\_\_ than her sister.
  - A) prettiest
  - B) more pretty
  - C) prettier
  - D) pretty
5. Choose the correct passive form: They completed the work.
  - A) The work is completed.
  - B) The work has been completed.
  - C) The work was completed.
  - D) The work had completed.
6. Fill in the blank: The train arrived \_\_\_\_\_ time.
  - A) in
  - B) at



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- C) on
- D) with

7. Which sentence is correct?

- A) He don't like tea.
- B) He doesn't likes tea.
- C) He doesn't like tea.
- D) He don't likes tea.

8. Choose the correct synonym of 'Reluctant':

- A) Willing
- B) Hesitant
- C) Eager
- D) Ready

9. Choose the correct antonym of 'Generous':

- A) Kind
- B) Selfish
- C) Honest
- D) Humble

10. Choose the correct spelling:

- A) Definitely
- B) Definatly
- C) Definetly
- D) Definitley

**General Knowledge (10% Questions)**

1. Who is the founder of Pakistan?

- A) Allama Iqbal
- B) Liaquat Ali Khan
- C) Quaid-e-Azam
- D) Ayub Khan

2. Which is the largest ocean?

- A) Atlantic
- B) Pacific



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- C) Indian  
D) Arctic
3. What is the capital of France?
- A) Berlin  
B) Madrid  
C) Rome  
D) Paris
4. Which planet is known as the Red Planet?
- A) Earth  
B) Jupiter  
C) Mars  
D) Venus
5. What is the national flower of Pakistan?
- A) Rose  
B) Jasmine  
C) Lily  
D) Sunflower
6. Who wrote the national anthem of Pakistan?
- A) Hafeez Jullundhri  
B) Faiz Ahmed Faiz  
C) Allama Iqbal  
D) Ahmed Faraz
7. Which is the highest mountain in the world?
- A) K2  
B) Everest  
C) Himalaya  
D) Kilimanjaro
8. What is the currency of Japan?
- A) Yuan  
B) Won  
C) Yen



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D) Dollar

**9. Which organ purifies blood in the human body?**

A) Heart

B) Kidney

C) Lungs

D) Brain

**10. Which country hosted the 2024 Olympics?**

A) China

B) Japan

C) France

D) USA

**Chemistry (10% Questions)**

**1. What is the formula of common salt?**

A) NaCl

B) KCl

C) CaCl<sub>2</sub>

D) Na<sub>2</sub>CO<sub>3</sub>

**2. Which element is used in the manufacture of matchsticks?**

A) Phosphorus

B) Sulfur

C) Calcium

D) Magnesium

**3. Which gas turns limewater milky?**

A) Carbon dioxide

B) Oxygen

C) Nitrogen

D) Ammonia

**4. What is the lightest element?**

A) Hydrogen

B) Helium



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- C) Lithium  
D) Carbon
5. Which metal is most reactive?  
A) Potassium  
B) Iron  
C) Zinc  
D) Copper
6. What is the chemical formula of methane?  
A) CH<sub>4</sub>  
B) C<sub>2</sub>H<sub>6</sub>  
C) C<sub>2</sub>H<sub>4</sub>  
D) C<sub>2</sub>H<sub>2</sub>
7. What is formed when an acid reacts with a base?  
A) Salt and water  
B) Water only  
C) Gas and water  
D) Salt and gas
8. What is the atomic mass of oxygen?  
A) 16  
B) 18  
C) 14  
D) 12
9. Which gas is released during photosynthesis?  
A) Oxygen  
B) Carbon dioxide  
C) Nitrogen  
D) Hydrogen
10. Which chemical is used for water purification?  
A) Chlorine  
B) Oxygen  
C) Hydrogen peroxide



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D) Sodium

**Biology (50 Questions)**

1. In 1831, the presence of nucleus in the cells was reported by .....  
A. Robert Koch      B. Robert Hooke      C. Robert Mug Abe      D. Robert Brown
2. The innate tendency of offspring to resemble their parents is known as  
A. Heredity      B. Horodisk      C. Variation      D. None
3. Ribosomes and DNA are also present in .....  
A. Mitochondria      B. Golgi complex      C. Endoplasmic reticulum      D. Lysosomes
4. Taking liquid material into the cells is known as.....  
A. Phagocytosis      B. Pinocytosis      C. Exocytosis      D. Both a and b
5. The process in which uncontrolled cell death, cell swelling, and inflammation occurs is called .....  
A. Apoptosis      B. Necrosis      C. Both a & b      D. non-disjunction
6. The tumors which are of small size and localized are called .....  
A. Benign      B. Malignant      C. Gentle      D. Nasty
7. Anemia is caused by the deficiency of .....  
A. Iron      B. Zinc      C. Calcium      D. Sodium
8. Alzheimer's disease in human beings is characterized by the degeneration of .....  
A. Brain cells      B. Nerve cells      C. Liver cells      D. Spleen cells
9. Muscle fatigue is caused by the accumulation of .....  
A. Uric acid      B. Lactic acid      C. Oxalacetic acid      D. Fyruvie acid
10. Spinach leaves are rich source of .....  
A. Amino acid      B. Iron      C. Vitamin E      D. Carotene
11. .... is a scientific word for human beings.  
A. Animals      B. Homo sapiens      C. Omnivore      D. Consume
12. .... contains the green chemical called chlorophyll.  
A. Cytoplasm      B. Cell membrane      C. Chloroplasts      D. Vacuole
13. .... of the following organ is responsible for blood filtration.  
A. Liver      B. Kidney      C. Lungs      D. Heart





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14. End-product of hemoglobin break down is .....  
A. Creatinine      B. Hypoxanthin      C. Bilirubin      D. Xanthin
15. .... of the following receptors produce sensation of pain.  
A. Mechanoreceptor      B. Chemoreceptors      C. Nociceptors      D. Thermoreceptors
16. At what stage of aerobic respiration two carbon molecules oxidized completely to CO<sub>2</sub>?  
A. Glycolysis      B. ETC      C. Krebs cycle      D. Calvin cycle
17. Pyrimidine nitrogen bases include:  
A. (C, T, U)      B. (A, C, T)      C. (G, C, U)      D. (A, G, T)
18. Enzymes are very... ..... in nature.  
A. Specific      B. General      C. Precise      D. Exact
19. .... is the name of enveloped RNA virus that causes infusion hepatitis.  
A. HBV      B. HAV      C. HCV      D. None of these
20. Which of the following does not have specialized respiratory organs?  
A. Hydra      B. Birds      C. Cockroach      D. Both A and B
21. Hummingbirds belong to..... category.  
A. Heterotherms      B. Endotherms      C. Ectotherm      D. None of these.
22. When carbon dioxide pressure increases the capacity of haemoglobin to hold, oxygen:  
A. Increases many folds      B. Decreases      C. Remains constant      D. Is doubled
23. The soluble part of the cytoplasm is termed as .....  
A. Cisternae      B. Cytosol      C. Endocytosis      D. Both A and B
24. In general, asexual reproduction is common in .....  
A. Humans      B. Basidiomycot      C. Deuteromycota      D. Basidiospores
25. The total inside capacity of lungs of adult human beings when fully inflated is.....  
A. 5 ml      B. 50 ml      C. 500 ml      D. 5000 ml
26. .... of the following belong to collenchyma cells.  
A. Fibers      B. Vessels      C. Sclereides      D. None of these
27. The site for synthesis and storage of rRNA is .....  
A. Nucleus      B. Nucleolus      C. Ribosome      D. Golgi body
28. Most familiar disaccharide is .....





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42. The bond between two monosaccharides is called .....
- A. Covalent Bond      B. Peptide Bond      C. Glycosidic Bond      D. Ionic Bond
43. The excretory system is composed of .....
- A. Stomach      B. Kidneys      C. Gall Bladder      D. Liver
44. Which one of the following is not a disaccharide.
- A. Glucose      B. Fructose      C. Levulose      D. Maltose
45. A substance that inhibits blood clotting is .....
- A. Heparin      B. Fibrin      C. Fibrinogen      D. Thrombin
46. Which blood cells are primarily responsible for the immune response?
- A. Red blood cells      B. White blood cells      C. Platelets      D. Plasma
47. Which organelle is known as the powerhouse of the cell?
- A. Nucleus      B. Mitochondria      C. Ribosome      D. Endoplasmic Reticulum
48. Which organ filters blood in the human body?
- A) A. Kidney  
B) B. Heart  
C) C. Lungs  
D) D. Liver
49. What is the largest organ in the human body?
- A) A. Skin  
B) B. Liver  
C) C. Lung  
D) D. Heart
50. Which part of the plant conducts photosynthesis?
- A) A. Leaves  
B) B. Roots  
C) C. Stem  
D) D. Flowers

**Physics (15 Questions)**

1. The SI unit of heat is .....



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- A. Watt                      B. Volt                      C. Joule                      D. Newton
2. The branch of physics which deals with highly energetic ions is called .....
- A. Elementary articles                      B. Particle physics  
C. Ionic physics                      D. Plasma physics
3. Time rate of change of momentum is equal to .....
- A. Force                      B. Impulse                      C. Velocity                      D. Both A and C
4. Electrical energy is measured in .....
- A. Watt                      B. Horsepower                      C. Kilo watt                      D. Kilowatt hour
5. Second's pendulum is the pendulum whose time-period is .....
- A. 1 Second                      B. 2 Second                      C. 3 Second                      D. None of These
6. The time-period of simple pendulum is independent of its .....
- A. Length                      B. 2 Mass                      C. Value of g                      D. Both A and B
7. Light year is the unit of .....
- A. Light                      B. Time                      C. Velocity                      D. Distance
8. Two forces of 10N and 7N respectively are acting to an object. The minimum value of their resultant is:
- A. 0 N                      B. 10 N                      C. 7 N                      D. 3 N
9. The area under the curve of velocity-time graph gives:
- A. Acceleration                      B. Velocity                      C. Distance                      D. Direction
10. The K.E of a body of mass 2 kg and momentum 2 N is: A. 1 J                      B. 2 J                      C. 3 J                      D. 4 J
11. A straight line joining the centres of curvature of two surfaces is called
- A. Principle axis                      B. Radius of lens                      C. Diameter of lens                      D. Principal focus
12. The unit of electric field strength is:
- A. Volt                      B. Volt/meter                      C. Newton                      D. Coulomb
13. Which of the following devices converts mechanical energy into electrical energy?
- A. Motor                      B. Generator                      C. Transformer                      D. Rectifier
14. Electric flux is .....
- A. Cross product of two vectors                      B. Dot product of two vectors  
C. Scalar quantity                      D. Vector quantity
15. The substance which breaks after the elastic limit is called.....
- A. Brittle                      B. Organic  
C. Ductile                      D. All the others



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**General Knowledge (10 Questions)**

1. Pakistan is in the.....  
A. East Asia                      B. West Asia                      C. South Asia                      D. Central Asia
2. From the following countries which country does not have any border with Pakistan?  
A. India                      B. Afghanistan                      C. China                      D. Bangladesh
3. K<sub>2</sub> is the second highest mountain in the world, and located along the border of Pakistan and  
A. India                      B. Afghanistan                      C. China                      D. Iran
4. Derawar fort is in .....  
A. Hyderabad                      B. Bahawalpur                      C. Lahore                      D. Skardu
5. National tree of Pakistan is:  
A. Deodar Tree                      B. Neem Tree                      C. Silver Oak Tree                      D. Teak Tree
6. The planet with the shortest rotation time around its axis:  
A. Jupiter                      B. Earth                      C. Mars                      D. Venus
7. Select the name of the National Bird of Pakistan.  
A. Chakor                      B. Parrot                      C. Markhor                      D. Pigeon
8. Who prepared Pakistan's National Flag?  
A. Liaquat Ali Khan                      B. Ameer ud din Qadwai  
C. Chaudhary Rehmat Ali                      D. Abdur rehman Chughtai
9. Which one of the following is the national animal of Pakistan?  
A. Tiger                      B. Lion                      C. Arabian horse                      D. Markhor
10. Which peak is in Karakorum Range?  
A. Nanga Parbat                      B. Rakaposhi                      C. Takht-e-Sulaiman                      D. K-2

**Quantitative Reasoning (10% Questions)**

1. What is 15% of 200?  
A) 25  
B) 30  
C) 35



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D) 40

**2.** Solve:  $8 \times 6 \div 4 =$

A) 10

B) 12

C) 8

D) 14

**3.** If  $x = 2$ , what is the value of  $3x + 4$ ?

A) 10

B) 12

C) 8

D) 6

**4.** What is the square root of 81?

A) 7

B) 8

C) 9

D) 10

**5.** Which is the smallest prime number?

A) 0

B) 1

C) 2

D) 3