

THE UNIVERSITY OF CHENAB



Department of Allied Health Sciences
BS Radiography and Imaging Technology

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Programs Offered by the Department of Allied Health Sciences	
Degree Name	Degree Details/Eligibility Criteria
Radiography and Imaging Technology	The Radiography & Imaging Technology program is of 4-years duration, spread over 8 regular semesters, and consists of 139 credit hours after completing twelve years of higher secondary school certificate or equivalent. At least, 50% marks in intermediate or equivalent are required for admission in RIT



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Multiple Choice Questions

English (20 % 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
11. Which word is a noun?
- A) Quickly
B) Happiness
C) Running
D) Sleep
12. Identify the adjective: She wore a beautiful dress.
- A) She
B) wore



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- C) beautiful
D) dress
- 13.** Fill in the blank: He is afraid _____ the dark.
- A) for
B) from
C) to
D) of
- 14.** Choose the correct preposition: The cat is hiding _____ the table.
- A) under
B) between
C) on
D) above
- 15.** Which is a question tag for: He is a doctor, _____?
- A) isn't he?
B) doesn't he?
C) is he?
D) wasn't he?
- 16.** Identify the verb: She danced gracefully.
- A) She
B) danced
C) gracefully
D) none
- 17.** Choose the plural form of 'Cactus':
- A) Cactuses
B) Cactus
C) Cacti
D) Cactii
- 18.** Which is the correct comparative form?
- A) Gooder
B) More good



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C) Better

D) Best

19. Choose the correct synonym of 'Brief':

A) Long

B) Quick

C) Short

D) Small

20. Choose the correct antonym of 'Complex':

A) Easy

B) Complicated

C) Difficult

D) Simple

Quantitative Reasoning (10% Questions)

1. What is 15% of 200?

A) 25

B) 30

C) 35

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



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- B) 8
C) 9
D) 10
5. Which is the smallest prime number?
A) 0
B) 1
C) 2
D) 3
6. If a book costs \$15 and you buy 3, how much do you pay?
A) \$30
B) \$45
C) \$50
D) \$40
7. What is $\frac{3}{4}$ of 100?
A) 25
B) 50
C) 75
D) 60
8. What comes next: 2, 4, 8, 16, ?
A) 20
B) 30
C) 32
D) 24
9. Simplify: $5 + 3 \times 2 =$
A) 16
B) 11
C) 13
D) 10
10. Convert 0.5 into a percentage:
A) 0.5%



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- B) 5%
- C) 50%
- D) 500%

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
- 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



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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
 - 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

Subject-Based (Physics, Chemistry and Biology) (60 % Questions)

Physics (20% Questions)

1. According to Newton's second law of motion, what is the relationship between force (F), mass (m), and acceleration (a)?
 - A) $F=m/a$



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- B) $F=a/m$
C) $F=m * a$
D) $F=m+a$
2. What is the force that opposes motion between two surfaces that are in contact?
A) Gravity
B) Tension
C) Friction
D) Normal force
3. What is the unit of force?
A) Newton
B) Joule
C) Watt
D) Pascal
4. Which law explains the relationship between voltage, current, and resistance?
A) Ohm's Law
B) Newton's Law
C) C. Hooke's Law
D) D. Faraday's Law
5. What is the speed of light in vacuum?
A) $3 \times 10^8 \text{ m/s}$
B) $3 \times 10^6 \text{ m/s}$
C) $3 \times 10^4 \text{ m/s}$
D) $3 \times 10^2 \text{ m/s}$
6. What does a convex lens do to light?
A) Converges
B) Diverges
C) Reflects
D) Absorbs
7. Which of the following is a scalar quantity?
A) Speed



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- B) Velocity
 - C) Force
 - D) Momentum
- 8.** Which instrument is used to measure atmospheric pressure?
- A) Barometer
 - B) Thermometer
 - C) Hygrometer
 - D) Manometer
- 9.** Which type of mirror is used in vehicles as rear view mirrors?
- A) Convex
 - B) Concave
 - C) Plane
 - D) Spherical
- 10.** What is the SI unit of power?
- A) Watt
 - B) Newton
 - C) Joule
 - D) Ohm
- 11.** Which energy transformation occurs in an electric bulb?
- A) Electrical to light
 - B) Chemical to light
 - C) Heat to mechanical
 - D) Light to electrical
- 12.** What does the slope of a distance-time graph represent?
- A) Speed
 - B) Acceleration
 - C) Force
 - D) Energy
- 13.** What is inertia?
- A) Resistance to change in motion



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- B) Rate of change of velocity
 - C) Energy in motion
 - D) Change in position
- 14.** Which device converts AC to DC?
- A) Rectifier
 - B) Transformer
 - C) Generator
 - D) Inverter
- 15.** What is the principle of conservation of energy?
- A) Energy cannot be created or destroyed
 - B) Energy can be created
 - C) Energy can be destroyed
 - D) Energy changes mass
- 16.** What is the formula for work?
- A) Force x distance
 - B) Mass x velocity
 - C) Power x time
 - D) Energy x time
- 17.** What is the acceleration due to gravity on Earth?
- A) 9.8 m/s^2
 - B) 10 m/s^2
 - C) 8 m/s^2
 - D) 9.2 m/s^2
- 18.** Who discovered the law of gravitation?
- A) Newton
 - B) Einstein
 - C) Galileo
 - D) Faraday
- 19.** Which wave does not require a medium to travel?



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- A) Light
- B) Sound
- C) Water
- D) Seismic

20. Which electromagnetic wave has the highest frequency?

- A) Gamma rays
- B) X-rays
- C) UV rays
- D) Microwaves

Chemistry (20% Questions)

1. Which type of bond involves the sharing of one or more pairs of electrons between atoms?
 - A) Ionic bond
 - B) Hydrogen bond
 - C) Covalent bond
 - D) Double covalent bond
2. What is the process by which an atom gains or loses electrons to form ions?
 - A) Ionization
 - B) Oxidation – reduction
 - C) Electrolysis
 - D) None of above
3. What is the chemical symbol of gold?
 - A) Au
 - B) Ag
 - C) Gd
 - D) Go
4. What is the pH of a neutral solution?
 - A) 7
 - B) 0



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- C) 14
D) 1
5. Which gas is used in the preparation of soda water?
A) Carbon dioxide
B) Oxygen
C) Hydrogen
D) Nitrogen
6. What is the molecular formula of water?
A) H₂O
B) CO₂
C) O₂
D) CH₄
7. Which acid is present in vinegar?
A) Acetic acid
B) Citric acid
C) Sulfuric acid
D) Hydrochloric acid
8. What is the atomic number of carbon?
A) 6
B) 12
C) 8
D) 10
9. Which of the following is a noble gas?
A) Helium
B) Oxygen
C) Nitrogen
D) Hydrogen
10. Which metal is liquid at room temperature?
A) Mercury
B) Gold



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- C) Copper
D) Zinc
- 11.** What is the formula of common salt?
- A) NaCl
B) KCl
C) CaCl₂
D) Na₂CO₃
- 12.** Which element is used in the manufacture of matchsticks?
- A) Phosphorus
B) Sulfur
C) Calcium
D) Magnesium
- 13.** Which gas turns limewater milky?
- A) Carbon dioxide
B) Oxygen
C) Nitrogen
D) Ammonia
- 14.** What is the lightest element?
- A) Hydrogen
B) Helium
C) Lithium
D) Carbon
- 15.** Which metal is most reactive?
- A) Potassium
B) Iron
C) Zinc
D) Copper
- 16.** What is the chemical formula of methane?
- A) CH₄
B) C₂H₆



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- C) C_2H_4
 - D) C_2H_2
17. 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
18. What is the atomic mass of oxygen?
- A) 16
 - B) 18
 - C) 14
 - D) 12
19. Which gas is released during photosynthesis?
- A) Oxygen
 - B) Carbon dioxide
 - C) Nitrogen
 - D) Hydrogen
20. Which chemical is used for water purification?
- A) Chlorine
 - B) Oxygen
 - C) Hydrogen peroxide
 - D) Sodium

Biology (20% Questions)

1. What is the powerhouse of the cell?
- A) A. Mitochondria
 - B) B. Nucleus
 - C) C. Ribosome
2. Which blood cells help in clotting?
- A) A. Platelets
 - B) B. Red blood cells



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- C) C. White blood cells
 - D) D. Plasma
- 3.** What is the basic unit of life?
- A) A. Cell
 - B) B. Tissue
 - C) C. Organ
- 4.** Which organ filters blood in the human body?
- A) A. Kidney
 - B) B. Heart
 - C) C. Lungs
 - D) D. Liver
- 5.** What is the largest organ in the human body?
- A) A. Skin
 - B) B. Liver
 - C) C. Lung
 - D) D. Heart
- 6.** Which part of the plant conducts photosynthesis?
- A) A. Leaves
 - B) B. Roots
 - C) C. Stem
 - D) D. Flowers
- 7.** Which gas do plants absorb for photosynthesis?
- A) A. Carbon dioxide
 - B) B. Oxygen
 - C) C. Nitrogen
 - D) D. Hydrogen
- 8.** What type of blood cells fight infections?
- A) A. White blood cells
 - B) B. Red blood cells
 - C) C. Platelets



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- D) D. Plasma
- 9.** Which vitamin is produced in the skin in sunlight?
- A) A. Vitamin D
 - B) B. Vitamin A
 - C) C. Vitamin B
 - D) D. Vitamin C
- 10.** Which organ is responsible for pumping blood?
- A) A. Heart
 - B) B. Lung
 - C) C. Kidney
 - D) D. Brain
- 11.** Which disease is caused by deficiency of insulin?
- A) A. Diabetes
 - B) B. Cancer
 - C) C. Asthma
 - D) D. Anemia
- 12.** What is the function of ribosomes?
- A) A. Protein synthesis
 - B) B. Energy production
 - C) C. DNA storage
 - D) D. Digestion
- 13.** Which part of the brain controls balance?
- A) A. Cerebellum
 - B) B. Cerebrum
 - C) C. Medulla
 - D) D. Pons
- 14.** What is the green pigment in plants?
- A) A. Chlorophyll
 - B) B. Haemoglobin
 - C) C. Melanin



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- D) D. Keratin
- 15.** Which organ removes toxins from blood?
- A) A. Liver
 - B) B. Kidney
 - C) C. Heart
 - D) D. Lung
- 16.** Which tissue connects muscles to bones?
- A) A. Tendon
 - B) B. Ligament
 - C) C. Cartilage
 - D) D. Nerve
- 17.** Which blood group is universal donor?
- A) A. O negative
 - B) B. AB positive
 - C) C. B positive
 - D) D. A negative
- 18.** How many chromosomes do humans have?
- A) A. 46
 - B) B. 44
 - C) C. 23
 - D) D. 48
- 19.** What is the function of enzymes?
- A) A. Speed up chemical reactions
 - B) B. Break down food only
 - C) C. Form DNA
 - D) D. Transport oxygen
- 20.** What is the structural unit of the kidney?
- A) A. Nephron
 - B) B. Neuron
 - C) C. Alveoli