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Q1. If 50% of reactants are converted into products, the equilibrium constant (K_c) is:

- A) Greater than 1
- B) Less than 1

C) Equal to 1 ☒

D) Cannot be predicted

Book: FSc Chemistry Part-I

Chapter: 8 – Chemical Equilibrium

Topic: Equilibrium Constant

Q2. The SI unit of capacitance is:

A) Joule

B) Coulomb

C) Farad (F) ☒

D) Tesla

Book: FSc Physics Part-II

Chapter: 13 – Electrostatics

Topic: Capacitance

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Q3. Kilo watt hour (kWh) is the unit of:

A) Power

B) Energy ☒

C) Force


D) Current

Book: FSc Physics Part-I

Chapter: 5 – Work and Energy

Topic: Units of Work & Energy

Q4. The value of absolute zero in Celsius is:

A) -273°C 

B) 0°C

C) -100°C

D) -373°C


Book: FSc Physics Part-I

Chapter: 10 – Thermal Properties of Matter

Topic: Absolute Zero

Q5. In simple harmonic motion (SHM), displacement and restoring force are:

A) In the same direction

B) Opposite in direction 

C) Perpendicular to each other


D) Independent of each other

Book: FSc Physics Part-II

Chapter: 7 – Oscillations

Topic: Simple Harmonic Motion

Q6. Brewster's angle is related to:


- A) Diffraction of light
- B) Interference of light
- C) Polarization of light 
- D) Reflection of light

Book: FSc Physics Part-II

Chapter: 10 – Geometrical Optics

Topic: Polarization

Q7. A simile is defined as:


- A) A figure of speech where one thing is said to be another
- B) A figure of speech comparing two things using "like" or "as" 
- C) A story with a moral lesson
- D) A sound word expression

Book: English Grammar & Composition (Intermediate)

Topic: Figures of Speech – Simile

Q8. A metaphor is defined as:

- A) A comparison using "like" or "as"
- B) A story that teaches a lesson

- C) A figure of speech where one thing is said to be another 
- D) An exaggeration of reality

Book: English Grammar & Composition (Intermediate)

Topic: Figures of Speech – Metaphor



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Q9. Which amino acid is present at the sixth position of the hemoglobin molecule (whose mutation causes sickle cell anemia)?

- A) Lysine

- B) Histidine
- C) Glutamate ☒
- D) Glycine

Book: FSc Biology Part-II

Chapter: 18 – Variations and Genetics

Topic: Sickle Cell Anemia & Hemoglobin Mutation

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Q10. A conjugate acid–base pair differs by:

- A) One electron
- B) One neutron
- C) One proton (H^+) ☒
- D) One molecule of water

Book: FSc Chemistry Part-I

Chapter: 9 – Acids, Bases and Salts

Topic: Conjugate Acid–Base Pair

Q11. If there are no sperm in the male reproductive system, which condition will occur?

- A) Oligospermia

-
- B) Azoospermia ☒
 - C) Infertility
 - D) Cryptorchidism

Book: FSc Biology Part-II

Chapter: 27 – Reproduction

Topic: Male Reproductive Disorders

Q12. Polio virus mainly affects which part of the human body?

- A) Brain cortex
- B) Spinal cord ☒
- C) Cerebellum
- D) Medulla oblongata

Book: FSc Biology Part-II

Chapter: 22 – Nervous System

Topic: Nervous Disorders – Poliomyelitis

Q13. Which gas molecules evolve most easily through a small hole (Graham's law of diffusion/effusion)?

- A) Oxygen (O_2)
- B) Hydrogen (H_2) ☒
- C) Carbon dioxide (CO_2)
- D) Nitrogen (N_2)

Book: FSc Chemistry Part-I

Chapter: 5 – States of Matter

Topic: Graham's Law of Diffusion & Effusion

Q14. Which of the following is the most stable compound?

- A) Methyne
- B) Benzene ☒
- C) Cis-Methyne
- D) Trans-Methyne

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Book: FSc Chemistry Part-II

Chapter: 14 – Aromatic Hydrocarbons

Topic: Benzene & Stability

Q15. The product formed when a Grignard reagent reacts with carbon dioxide (CO₂) followed by hydrolysis is:


- A) Primary alcohol
- B) Aldehyde
- C) Carboxylic acid ☒
- D) Ketone

Book: FSc Chemistry Part-II

Chapter: 12 – Aliphatic Hydrocarbons

Topic: Grignard Reagent Reactions

Q16. Which test is used to detect ketones?



- A) Tollen's test
- B) Fehling's test
- C) Brady's test (2,4-DNP test) 
- D) Benedict's test

Book: FSc Chemistry Part-II

Chapter: 14 – Aldehydes & Ketones

Topic: Tests for Carbonyl Compounds

Q17. Which of the following statements about catalysts is correct?

1. A catalyst increases the rate of a reaction by lowering activation energy. 
2. A catalyst does not alter the equilibrium position of a reversible reaction. 

Book: FSc Chemistry Part-I

Chapter: 8 – Chemical Equilibrium

Topic: Catalyst & Reaction Rate

Q18. The atomic bomb is based on which type of nuclear reaction?

- A) Nuclear Fusion
- B) Nuclear Fission ☒
- C) Radioactive decay
- D) Chain propagation reaction

Book: FSc Physics Part-II

Chapter: 21 – Nuclear Physics

Topic: Nuclear Fission & Energy Production

Q19. The synonym of Excuse is:

- A) Forgive ☒
- B) Punish
- C) Blame
- D) Offend


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Book: English Grammar & Vocabulary (Intermediate)

Topic: Synonyms


Q20. The synonym of Passive is:

- A) Active
- B) Aggressive
- C) Inactive 
- D) Forceful

Book: English Grammar & Vocabulary (Intermediate)

Topic: Synonyms

Q21. The first words which are same alphabetically are called:

- A) Simile
- B) Condiment
- C) Adjective
- D) Consonant 


Book: English Grammar & Composition

Topic: Parts of Speech – Adjectives

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Q22. The wavelength range of visible light is:


- A) 100–200 nm
- B) 200–400 nm
- C) 400–700 nm 
- D) 700–1000 nm

Book: FSc Physics Part-II

Chapter: 12 – Wave Optics

Topic: Spectrum of Light

Q23. Which of the following has the same units as Pressure × Volume (PV)?


- A) Density
- B) Work 
- C) Force
- D) Atmospheric Pressure

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Book: FSc Physics Part-I

Chapter: 10 – Thermodynamics

Topic: Work & Energy Relation

Q24. Which is solid among the following?

- A) Diamond ☒
- B) Glass
- C) Liquid
- D) Copper

Book: FSc Chemistry Part-I

Chapter: 5 – States of Matter

Topic: Types of Solids

Q25. The substance that breaks just after the elastic limit is:

- A) Plastic material
- B) Brittle material ☒
- C) Elastic material
- D) Ductile material

Book: FSc Physics Part-I

Chapter: 6 – Solids

Topic: Elastic Limit & Breaking Point

Q26. Osteoclasts are:


- A) Cells that form new bone
- B) Cells that resorb (break down) bone ☒
- C) Cells that transport oxygen
- D) Cells that produce cartilage

Book: FSc Biology Part-II

Chapter: 16 – Support & Movement

Topic: Bone Cells

Q27. In Young's double-slit experiment, if separation between the slits is halved and the screen distance is doubled, the fringe width will become:


- A) Half of original
- B) Same as original
- C) Double of original
- D) Four times original 

Book: FSc Physics Part-II

Chapter: 12 – Wave Optics

Topic: Young's Double-Slit Experiment

Q28. Which of the following best describes an exothermic reaction?

- A) Absorbs heat from surroundings
- B) Releases heat to surroundings 
- C) Has positive enthalpy change
- D) Always occurs spontaneously

Book: FSc Chemistry Part-I

Chapter: 6 – Thermochemistry

Topic: Exothermic and Endothermic Reactions

Q29. In decarboxylation of carboxylic acids, which reagent is used?

- A) Washing soda
- B) Caustic soda
- C) Soda lime ☒
- D) Baking powder

Book: FSc Chemistry Part-II

Chapter: 12 – Aliphatic Hydrocarbons

Topic: Decarboxylation

Q30. Which is the most abundant polymer on Earth?


- A) Starch
- B) Cellulose ☒
- C) Glycogen
- D) Protein

Book: FSc Biology Part-I

Chapter: 2 – Biological Molecules

Topic: Polysaccharides

Q31. If the embryo is implanted in the ovary/uterus, which hormone will be secreted to maintain pregnancy?

- A) Estrogen
- B) Progesterone
- C) hCG (human chorionic gonadotropin) 
- D) Calcitonin


Book: FSc Biology Part-II

Chapter: 27 – Reproduction

Topic: Hormones in Pregnancy

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Q32. Which theory of aging suggests that free radicals cause damage to body cells?

- A) Genetic theory
- B) Immunological theory

C) Free radical theory 

D) Telomerase theory

Book: FSc Biology Part-II

Chapter: 26 – Development & Aging

Topic: Theories of Aging

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