

CHEMISTRY

1. IUPAC name of $C_6H_5O(CH_3)_2$ is:
- 2-Methyl-3-Hexanone
 - 2,6 - Dimethyl cyclohexanone
 - 3-Methyl cyclohexanone
 - 4-Methyl-3-hexanone

BIOLOGY

2. Which of the following is not necessary for PCR to occur?
- dATP
 - Primers
 - DNA fragments
 - Ribonucleotides
3. Which of the following is not related to enveloped virus?
- They survive for a short time
 - Their envelope is sensitive to sun light
 - They are tolerant to antibodies
 - Envelope is derived from host
4. Select an anamniote from the following:
- Snake
 - Parrot
 - Frog
 - Crocodile
5. According to the fluid mosaic model of cell membrane, which zone is embedded inside?
- Hydrophobic
 - Hydrophilic
 - Globular
 - Filamentous
6. Mono-saccharides have a general formula represented by:
- $C_n(H_2O)_n$
 - $C(H_2O)_n$
 - $C_2(H_2O)_n$
 - $C^n(H_2O)_n$
7. Which one of the following are "myogenic" type of muscles?
- Glandular muscles
 - Cardiac muscles
 - Skeletal muscles
 - Smooth muscles
8. Which of the following neurotransmitters function, both as neurotransmitter and hormones, decreasing our perception of pain?
- Epinephrine
 - Serotonin
 - Dopamine
 - Endorphins



9. Haemophilia A and B, color blindness and testicular feminization are example of:
- A. X-linked dominant trait
 - B. Y-linked recessive trait
 - C. Y-linked inheritance
 - D. Pseudoautosomal trait

PHYSICS

10. The newton-second is unit of:
- A. Work
 - B. Power
 - C. Impulse
 - D. Momentum
11. A 1.75 m heighted weight-lifter raises weights with a mass of 50 kg to a height of 0.5m above his head. How much work is being done by him? ($g=10\text{ms}^{-2}$)
- A. 2125 J
 - B. 2500 J
 - C. 50 J
 - D. 1225 J
12. What is the speed of 2.0 Kg metallic bob at mean position of a simple pendulum, when released from its extreme position 0.5m high? ($g=10\text{ms}^{-2}$)
- A. 3.16 ms^{-1}
 - B. 10 ms^{-1}
 - C. 100 ms^{-1}
 - D. 50 ms^{-1}
13. In transmission from grid station, power losses are minimized by:
- A. Increasing current
 - B. Decreasing current
 - C. Increasing resistance
 - D. Increasing voltage
14. PIV stands for:
- A. Positive inverse voltage
 - B. Power integrated voltage
 - C. Peak inverse voltage
 - D. Peak integrated voltage

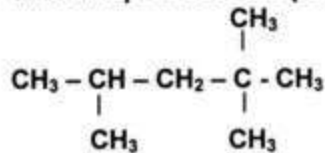


BIOLOGY

1. Which one is 'not' true for the 'acquired characters' of individuals which are often emerged by the use or disuse of organs?
- These are not passed on to the off springs of that individual
 - These are not necessarily inherited and accumulated through several generations
 - Organs can be modified by the wish or requirements of an organisms
 - These are inherited through several generation

CHEMISTRY

2. When the following alkane reacts with chlorine under UV light, how many different products are possible?



- 3
 - 4
 - 5
 - 6
3. Ester formation occurs when carboxylic acid reacts with alcohol in the presence of:
- Conc. NaOH
 - Conc. H₂SO₄
 - Dilute NaOH
 - Dilute H₂SO₄

PHYSICS

4. When length of copper wire is doubled then resistivity becomes:
- Double
 - Half
 - Remains same
 - Four times
5. The rate of radioactive decay is directly proportional to the stability of the:
- Medium
 - Atmosphere
 - Isotopes
 - Half life
6. The unit use of decay constant λ is:
- s⁻¹
 - m⁻¹
 - Kg⁻¹
 - m⁻²

ENGLISH

7. He dislikes having to maltreat his pets. The underlined phrase is:
- Verb Phrase
 - Noun Phrase
 - Participle Phrase
 - Gerund Phrase



PMC Special MDCAT 2020 (13th Dec 2020) Analysis Report

1. This is with reference to the PMC Special (COVID – 19) MDCAT 2020 held on 13th Dec 2020. 205 candidates sat in the Test.
2. No complaint was received on any item in the Test by NUMS.
3. Following analysis, 07 MCQs out of the 200 are being recommended to be deleted from assessment.
4. 07 marks are recommended to be added to the score of each candidate following deletion of these 07 MCQs.
5. These questions are: -

| Ser No | Code A | Difficulty Index | Discrimination Index |
|--------|--------|------------------|----------------------|
| a. | Q 71 | 29.32 | - 0.14 |
| b. | Q 123 | 27.07 | - 0.03 |
| c. | Q 135 | 57.89 | - 0.02 |
| d. | Q 166 | 18.05 | - 0.18 |
| e. | Q 178 | 6.77 | - 0.08 |
| f. | Q 179 | 9.77 | - 0.20 |
| g. | Q 196 | 15.04 | - 0.03 |

Member Examination

Name: RAZI TAHIR UDDIN Signature: *Razi* Date: 14.12.2020

