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Assessment Name(Mentioned on the Last Page of Question Booklet)

Question Booklet No.

Roll No. (In Words)

Roll No. (In Figures)

Date of Birth

Name of the Candidate

Father's Name

Mother's Name

Category

Subject Opted

16 DEC 2025(2ND SHIFT HIMEXAM.COM)

Candidate's Signature

Candidate's Thumb Impression

Invigilator's Signature

Instructions for the Candidate

1. Candidate must write his/her Roll No. in the space provided above.
2. Candidate must darken the appropriate circle with Blue/Black Ball Point Pen only.
3. Candidate must not do any rough work or writing on the Answer Sheet.
4. Candidate must not fold the Answer Sheet.
5. Candidate must not make any other mark on the Answer Sheet except darkening the appropriate circle.
6. Candidate must not darken more than one circle for each question.
7. Candidate must not darken the circle against any question which is not attempted.
8. Candidate must not darken the circle against any question for which zero mark is awarded.
9. Candidate must not darken the circle against any question for which negative mark is awarded.
10. Candidate must not darken the circle against any question for which more than the allotted marks are awarded.

Q1. Which one of the following is not a part of the respiratory system?

(1) Alveoli (2) Bronchioles (3) Nephrons (4) Trachea

Q2. Which one of the following is not a function of the human skeleton?

(1) Blood cell production (2) Storage of minerals (3) Digestion of food (4) Support and protection

Q3. Which one of the following is not a function of the human liver?

(1) Detoxification (2) Production of bile (3) Storage of glycogen (4) Production of insulin

Q4. Which one of the following is not a function of the human kidney?

(1) Filtration of blood (2) Reabsorption of water (3) Production of urine (4) Production of digestive enzymes

Q5. Which one of the following is not a function of the human pancreas?

(1) Production of insulin (2) Production of glucagon (3) Production of digestive enzymes (4) Production of bile

Q6. Which one of the following is not a function of the human spleen?

(1) Filtration of blood (2) Storage of blood cells (3) Production of blood cells (4) Production of digestive enzymes

Q7. Which one of the following is not a function of the human gallbladder?

(1) Storage of bile (2) Concentration of bile (3) Production of bile (4) Release of bile into the small intestine

Q8. Which one of the following is not a function of the human small intestine?

(1) Absorption of nutrients (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q9. Which one of the following is not a function of the human large intestine?

(1) Absorption of water (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q10. Which one of the following is not a function of the human rectum?

(1) Storage of feces (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q11. Which one of the following is not a function of the human anus?

(1) Elimination of feces (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q12. Which one of the following is not a function of the human appendix?

(1) Production of digestive enzymes (2) Production of bile (3) Production of insulin (4) Immune function

Q13. Which one of the following is not a function of the human tonsils?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q14. Which one of the following is not a function of the human adenoids?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q15. Which one of the following is not a function of the human thymus?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q16. Which one of the following is not a function of the human lymph nodes?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q17. Which one of the following is not a function of the human spleen?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q18. Which one of the following is not a function of the human liver?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q19. Which one of the following is not a function of the human kidney?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q20. Which one of the following is not a function of the human pancreas?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q21. Which one of the following is not a function of the human small intestine?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q22. Which one of the following is not a function of the human large intestine?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q23. Which one of the following is not a function of the human rectum?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q24. Which one of the following is not a function of the human anus?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q25. Which one of the following is not a function of the human appendix?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q26. Which one of the following is not a function of the human tonsils?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q27. Which one of the following is not a function of the human adenoids?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q28. Which one of the following is not a function of the human thymus?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q29. Which one of the following is not a function of the human lymph nodes?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q30. Which one of the following is not a function of the human spleen?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q31. Which one of the following is not a function of the human liver?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q32. Which one of the following is not a function of the human kidney?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q33. Which one of the following is not a function of the human pancreas?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q34. Which one of the following is not a function of the human small intestine?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q35. Which one of the following is not a function of the human large intestine?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q36. Which one of the following is not a function of the human rectum?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q37. Which one of the following is not a function of the human anus?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q38. Which one of the following is not a function of the human appendix?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q39. Which one of the following is not a function of the human tonsils?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q40. Which one of the following is not a function of the human adenoids?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q41. Which one of the following is not a function of the human thymus?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q42. Which one of the following is not a function of the human lymph nodes?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q43. Which one of the following is not a function of the human spleen?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q44. Which one of the following is not a function of the human liver?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q45. Which one of the following is not a function of the human kidney?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q46. Which one of the following is not a function of the human pancreas?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q47. Which one of the following is not a function of the human small intestine?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q48. Which one of the following is not a function of the human large intestine?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q49. Which one of the following is not a function of the human rectum?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

Q50. Which one of the following is not a function of the human anus?

(1) Immune function (2) Production of digestive enzymes (3) Production of bile (4) Production of insulin

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Option 3 ID : 4410091214196
Option 4 ID : 4410091214195
Status : Answered B
Chosen Option :

Q.39 **Which key adaptation allowed reptiles to live successfully on land?**

Ans
✗ A. Presence of moist, permeable skin for cutaneous respiration
✗ B. Ability to respire through both lungs and skin
✓ C. Development of scaly, keratinized skin that prevents water loss
✗ D. Retention of gills for aquatic respiration

Question Type : MCQ
Question ID : 4410091488726
Option 1 ID : 4410095881087
Option 2 ID : 4410095881089
Option 3 ID : 4410095881086
Option 4 ID : 4410095881088
Status : Answered B
Chosen Option :

Q.40 **अनच्छेद 29 के अनसुार, राज्य निम्निलिखत मेंस किसके हितों की रक्षा करगेा?**

Ans
✗ A. केवलऔद्योगिक कमचरि्रयों
✓ B. अल्पसख्यंकों के सासृ्कंतिक और शिैक्षक अधिकार
✗ C. केवल भाषाई अल्पसख्यंक
✗ D. केवल धामिर्क अल्पसख्यंक

Question Type : MCQ
Question ID : 4410091510681
Option 1 ID : 4410095966779
Option 2 ID : 4410095966778
Option 3 ID : 4410095966776
Option 4 ID : 4410095966777
Status : Answered B
Chosen Option :

Q.41 **A polymer sample is found to contain segments rich in methyl methacrylate (MMA) alternating with segments rich in butadiene. The synthesis most likely involved:**

Ans
✗ A. Condensation polymerization between MMA and butadiene
✗ B. Alternating radical copolymerization through equal reactivity ratios
✗ C. Random copolymerization of MMA and butadiene under high pressure
✓ D. Sequential polymerization leading to a block copolymer

Question Type : MCQ
Question ID : 4410091488252
Option 1 ID : 4410095879178
Option 2 ID : 4410095879179
Option 3 ID : 4410095879176
Option 4 ID : 4410095879177
Status : Answered A
Chosen Option :

Q.42 **What is the major economic impact of Helicoverpa armigera in agriculture?**

Ans
✗ A. It enhances pollination efficiency in leguminous crops.
✗ B. It decomposes crop residues to enrich soil fertility.
✗ C. It controls aphid populations through predation.
✓ D. It causes extensive damage to flowering and fruiting structures of crops like cotton and chickpea.

Question Type : MCQ
Question ID : 4410091491909
Option 1 ID : 4410095893322
Option 2 ID : 4410095893324
Option 3 ID : 4410095893323
Option 4 ID : 4410095893321
Status : Answered D
Chosen Option :

Q.43 **निम्निलिखत वाक्य के रखिांकत शब्द का पयायर्वाची कौन-सा नहीं है?**
'मिलक के कटु वचन सनुकर नौकर चला गया।'

Ans
✓ A. दुष्ट
✗ B. कड़वा
✗ C. ककर्श
✗ D. कठोर

Question Type : MCQ
Question ID : 4410091486173
Option 1 ID : 4410095871127
Option 2 ID : 4410095871124
Option 3 ID : 4410095871125
Option 4 ID : 4410095871126
Status : Answered A
Chosen Option :

Q.44 **The two subunits of 70S ribosomes are ______.**

Ans
✓ A. 50S and 30S
✗ B. 60S and 40S
✗ C. 50S and 35S
✗ D. 50S and 45S

Question Type : MCQ
Question ID : 4410091504638
Option 1 ID : 4410095943002
Option 2 ID : 4410095943003
Option 3 ID : 4410095943004
Option 4 ID : 4410095943005
Status : Answered A
Chosen Option :

Q.45 **Somatostatin a human hormone, is now being produced commercially using ______.**

Ans
✓ A. E. coli
✗ B. Bacillus subtilis
✗ C. Pseudomonas
✗ D. Chlorella

Question Type : MCQ
Question ID : 4410091504670
Option 1 ID : 4410095943131
Option 2 ID : 4410095943132
Option 3 ID : 4410095943133
Option 4 ID : 4410095943130
Status : Answered B
Chosen Option :

Q.46 **According to electronegativity, which of the following bonds is the most polar?**

Ans
✗ A. H-Br
✓ B. H-F
✗ C. H-I
✗ D. H-Cl

Question Type : MCQ
Question ID : 4410091497551
Option 1 ID : 4410095915304
Option 2 ID : 4410095915303
Option 3 ID : 4410095915305
Option 4 ID : 4410095915302
Status : Answered C
Chosen Option :

Q.47 **The structural and functional unit of the nervous system is:**

Ans
✗ A. Axon
✗ B. Synapse
✓ C. Neuron
✗ D. Neuroglia

Question Type : MCQ
Question ID : 4410091498546
Option 1 ID : 4410095919112
Option 2 ID : 4410095919111
Option 3 ID : 4410095919110
Option 4 ID : 4410095919109
Status : Answered C
Chosen Option :

Q.48 **The half-life of a radioactive nuclide is 20 days. What fraction of the sample remains after 100 days?**

Ans
✗ A. 1/8
✓ B. 1/32
✗ C. 1/4
✗ D. 1/16

Question Type : MCQ
Question ID : 4410091498262
Option 1 ID : 4410095918076
Option 2 ID : 4410095918074
Option 3 ID : 4410095918075
Option 4 ID : 4410095918077
Status : Answered D
Chosen Option :

Q.49 **Transformative conflict resolution primarily seeks to:**

Ans
✗ A. conclude disputes swiftly without altering interpersonal dynamics.
✗ B. disregard the broader social context in which conflicts arise.
✓ C. improve relationships through recognition and empowerment.
✗ D. address conflicts solely through legal adjudication.

Question Type : MCQ
Question ID : 4410091511218
Option 1 ID : 4410095968922
Option 2 ID : 4410095968925
Option 3 ID : 4410095968923
Option 4 ID : 4410095968924
Status : Answered C
Chosen Option :

Q.50 **Milk turns into curd because of which microorganism?**

Ans
✗ A. Amoeba
✓ B. [illegible]ria
✗ C. Yeast
✗ D. Penicillium Fungus

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Question Type : MCQ
Question ID : 4410091520609
Option 1 ID : 4410096005658
Option 2 ID : 4410096005657
Option 3 ID : 4410096005656
Option 4 ID : 4410096005659
Status : Answered B
Chosen Option :

Q.51 **निम्निलिखत वाक्य के रिक्त स्थान मेंगंबोधक विशषेण शब्द का प्रयोग करें-**
'आज सभी बच्चों न ेवस्त्र पहन।

Ans
✗ A. चार
✗ B. सदुंर
✗ C. डरपोक
✓ D. लाल

Question Type : MCQ
Question ID : 4410091483592
Option 1 ID : 4410095861256
Option 2 ID : 4410095861253
Option 3 ID : 4410095861254
Option 4 ID : 4410095861255
Status : Answered D
Chosen Option :

Q.52 **The number of hyperconjugative structures for isopropyl cation ($CH_3–CH^+–CH_3$) is:**

Ans
✗ A. 9
✓ B. 6
✗ C. 3
✗ D. 8

Question Type : MCQ
Question ID : 4410091493574
Option 1 ID : 4410095899919
Option 2 ID : 4410095899917
Option 3 ID : 4410095899916
Option 4 ID : 4410095899918
Status : Answered B
Chosen Option :

Q.53 **Which of the following happens to the reaction centre of a chlorophyll- a molecule when it absorbs a photon of light?**

Ans
✗ A. Reaction centre becomes excited and ejects a photon.
✓ B. Reaction centre becomes excited and ejects an electron.
✗ C. Reaction center becomes oxidised by accepting an electron.
✗ D. Reaction centre becomes reduced by absorbing photon.

Question Type : MCQ
Question ID : 4410091501206
Option 1 ID : 4410095929233
Option 2 ID : 4410095929234
Option 3 ID : 4410095929235
Option 4 ID : 4410095929232
Status : Answered B
Chosen Option :

Q.54 **Successful interpretation of spectra requires:**

Ans
✗ A. Ignoring chemical reactivity while focusing solely on instrument readings
✓ B. Understanding both organic chemistry and spectroscopic principles together
✗ C. Using biological data instead of electromagnetic interaction analysis
✗ D. Measuring thermal conductivity rather than light absorption spectra

Question Type : MCQ
Question ID : 4410091486813
Option 1 ID : 4410095873656
Option 2 ID : 4410095873655
Option 3 ID : 4410095873658
Option 4 ID : 4410095873657
Status : Answered B
Chosen Option :

Q.55 **Which of the following complexes is formed in the general mechanism of contraction in smooth muscle?**

Ans
✓ A. Calcium-Calmodulin
✗ B. Calcium-Troponin I
✗ C. Calcium-Troponin T
✗ D. Calcium-Troponin C

Question Type : MCQ
Question ID : 4410091510800
Option 1 ID : 4410095967258
Option 2 ID : 4410095967259
Option 3 ID : 4410095967256
Option 4 ID : 4410095967257
Status : Answered D
Chosen Option :

Q.56 **निम्निलिखत वाक्य के रखिांकत शब्द का पयायर्वाची कौन-सा शब्द नहीं ह?ै**
'रमशे न ेनौकर को जान ेका इशारा किया।'

Ans
✗ A. इंगित
✗ B. सकंेत
✓ C. उत्थान
✗ D. निदेर्श

Question Type : MCQ
Question ID : 4410091486229
Option 1 ID : 4410095871340
Option 2 ID : 4410095871342
Option 3 ID : 4410095871343
Option 4 ID : 4410095871341
Status : Answered C
Chosen Option :

Q.57 **Where was the India-Japan Economic Security Dialogue inaugurated in 2024?**

Ans
✗ A. Hiroshima
✗ B. Bengaluru
✗ C. Fukuoka
✓ D. Tokyo

Question Type : MCQ
Question ID : 441009656611
Option 1 ID : 4410092580793
Option 2 ID : 4410092580792
Option 3 ID : 4410092580791
Option 4 ID : 4410092580794
Status : Answered C
Chosen Option :

Q.58 **Which policy emphasizes inclusive and equitable quality education for all?**

Ans
✗ A. National Policy on Education, 1986
✗ B. National Curriculum Framework, 2005
✓ C. National Education Policy, 2020
✗ D. Right to Education Act, 2009

Question Type : MCQ
Question ID : 4410091515149
Option 1 ID : 4410095984000
Option 2 ID : 4410095984003
Option 3 ID : 4410095984002
Option 4 ID : 4410095984001
Status : Answered C
Chosen Option :

Q.59 **पोलावरम बहुउद्देशीय सिंचाई परियोजना किस नदी पर निमिर्त ह?ै**

Ans
✗ A. महानदी नदी
✓ B. गोदावरी नदी
✗ C. कृष्णा नदी
✗ D. पन्ेा नदी

Question Type : MCQ
Question ID : 4410091523978
Option 1 ID : 4410096019189
Option 2 ID : 4410096019188
Option 3 ID : 4410096019187
Option 4 ID : 4410096019190
Status : Answered D
Chosen Option :

Q.60 **All the atoms are composed of __________.**

Ans
✗ A. Protons and Neutrons
✗ B. Electrons and Protons
✗ C. Electrons and Neutrons
✓ D. Electrons Protons and Neutrons

Question Type : MCQ
Question ID : 441009624635
Option 1 ID : 4410092452675
Option 2 ID : 4410092452672
Option 3 ID : 4410092452673
Option 4 ID : 4410092452674
Status : Answered D
Chosen Option :

Q.61 **What is the functional advantage of solenoglyphous fangs in snakes compared to the fixed fangs of elapids?**

Ans
✓ A. The hinged mechanism permits the fangs to fold back against the roof of the mouth, even when the mouth is closed.
✗ B. The fangs are permanently erect, allowing for instantaneous strikes without any preparatory movement.
✗ C. It allows to store larger volume of venom within the hollow fang itself.
✗ D. It enables the snake to degenerate fangs sequentially and maintain fixed number of fangs.

Question Type : MCQ
Question ID : 4410091496894
Option 1 ID : 4410095912711
Option 2 ID : 4410095912713
Option 3 ID : 4410095912710
Option 4 ID : 4410095912712
Status : Answered A
Chosen Option :

Q.62 **Oxidation of ketones usually requires:**

Ans
✓ A. Vigorous conditions leading to bond cleavage
✗ B. Mild base catalysis at room temperature
✗ C. Silver ion reagent in neutral medium
✗ D. Simple removal of hydrogen as a proton

Question Type : MCQ
Question ID : 4410091485846
Option 1 ID : 4410095869853
Option 2 ID : 4410095869854
Option 3 ID : 4410095869855
Option 4 ID : 4410095869856
Status : Answered D
Chosen Option :

Q.63 **What is the membrane commonly used in Northern and Southern blotting?**

Ans
✗ A. PVDF
✓ B. Nitrocellulose or nylon membrane
✗ C. [illegible]
✗ D. Paper membrane

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Question Type : MCQ
Question ID : 4410091506868
Option 1 ID : 4410095951843
Option 2 ID : 4410095951845
Option 3 ID : 4410095951844
Option 4 ID : 4410095951842
Status : Answered B
Chosen Option :

Q.64 **What signals that a classroom is learner-centered?**

Ans
✓ A. Students actively interact with materials and peers.
✗ B. Learners listen to extended teacher explanations.
✗ C. All tasks follow a predetermined script.
✗ D. Students work silently without collaboration.

Question Type : MCQ
Question ID : 4410091513095
Option 1 ID : 4410095976410
Option 2 ID : 4410095976411
Option 3 ID : 4410095976412
Option 4 ID : 4410095976413
Status : Answered A
Chosen Option :

Q.65 What is the correct expression for: the osmotic pressure (Π) is related to solute conc
where π = osmotic pressure, C = molar concentration of solute , R = universal gas
T = temperature

Ans
✗ A. Π= ICT/R
✗ B. Π= mRT
✗ C. Π= RT/C
✓ D. Π= CRT

Question Type : MCQ
Question ID : 4410091488190
Option 1 ID : 4410095878915
Option 2 ID : 4410095878912
Option 3 ID : 4410095878914
Option 4 ID : 4410095878913
Status : Answered D
Chosen Option :

Q.66 **The fundamental thermodynamic constraint that ultimately limits the number of trophic levels in an ecosystem's energy pyramid is best explained by:**

Ans
✓ A. The second law of thermodynamics, which dictates a continuous loss of usable energy as heat, at each transfer.
✗ B. The first law of thermodynamics, which ensures the total energy is conserved, as energy is neither created nor destroyed.
✗ C. The competitive exclusion principle, which states that no two species can occupy the same niche.
✗ D. Liebig's law of minimum, which states growth is limited by the scarcest resource.

Question Type : MCQ
Question ID : 4410091522278
Option 1 ID : 4410096012218
Option 2 ID : 4410096012217
Option 3 ID : 4410096012216
Option 4 ID : 4410096012219
Status : Answered B
Chosen Option :

Q.67 **In a grassland ecosystem, the primary component responsible for converting solar energy into a form that is usable by the rest of the community is:**

Ans
✗ A. Community of fungi and various decomposers
✗ B. Abiotic component of nutrient-rich soil
✓ C. Diverse community of perennial grasses and herbs
✗ D. Population of large grazing herbivores

Question Type : MCQ
Question ID : 4410091521900
Option 1 ID : 4410096010737
Option 2 ID : 4410096010735
Option 3 ID : 4410096010734
Option 4 ID : 4410096010736
Status : Answered C
Chosen Option :

Q.68 **Which of the following free living, aerobic and non-photosynthetic bacteria fixes atmospheric nitrogen into ammonia?**

Ans
✗ A. Rhodospirillum
✓ B. Azotobacter
✗ C. Clostridium
✗ D. Anabaena

Question Type : MCQ
Question ID : 4410091501142
Option 1 ID : 4410095929025
Option 2 ID : 4410095929026
Option 3 ID : 4410095929024
Option 4 ID : 4410095929027
Status : Answered B
Chosen Option :

Q.69 **The basic principle of tissue culture is based on which of the following?**

Ans
✗ A. Genetic variation
✗ B. Cell senescence
✗ C. Mutation
✓ D. Totipotency of cells

Question Type : MCQ
Question ID : 4410091499026
Option 1 ID : 4410095920996
Option 2 ID : 4410095920999
Option 3 ID : 4410095920998
Option 4 ID : 4410095920997
Status : Answered D
Chosen Option :

Q.70 **The following phase is NOT a part of interphase.**

Ans
✓ A. M
✗ B. G2
✗ C. G1
✗ D. S

Question Type : MCQ
Question ID : 4410091510683
Option 1 ID : 4410095966786
Option 2 ID : 4410095966787
Option 3 ID : 4410095966784
Option 4 ID : 4410095966785
Status : Answered A
Chosen Option :

Q.71 **Select the most appropriate option to fill in the blank.**
The ________ gray rain clouds are called nimbus and more specifically nimbostratus.

Ans
✗ A. little
✗ B. straight
✓ C. dark
✗ D. soft

Question Type : MCQ
Question ID : 441009338548
Option 1 ID : 4410091320156
Option 2 ID : 4410091320158
Option 3 ID : 4410091320157
Option 4 ID : 4410091320159
Status : Answered D
Chosen Option :

Q.72 **An electrochemical cell has standard emf E°= +2.500 V at 298.15 K and involves transfer of n = 2 electrons per reaction. Calculate ΔG° (in kJ·mol^{-1}). (Use F=96485 Cmol−1)**

Ans
✗ A. −193.0 kJ mol−1
✗ B. −189.4 kJ mol−1
✗ C. −96.485 kJ mol−1
✓ D. −482.425 kJmol−1

Question Type : MCQ
Question ID : 4410091487719
Option 1 ID : 4410095877084
Option 2 ID : 4410095877085
Option 3 ID : 4410095877086
Option 4 ID : 4410095877083
Status : Answered C
Chosen Option :

Q.73 **According to Werner's theory, the correct formula of a complex that gives two ions in a solution is:**

Ans
✗ A.
✗ $[Co(NH_3)_3Cl_3]$
✓ B. C. $[Co(NH_3)_4Cl_2]Cl$
✗ D. $[Co(NH_3)_5Cl]Cl_2$

Question Type : MCQ
Question ID : 4410091492897
Option 1 ID : 4410095897280
Option 2 ID : 4410095897277
Option 3 ID : 4410095897279
Option 4 ID : 4410095897278
Status : Answered C
Chosen Option :

Q.74 **Which of the following statements is true for meso compounds?**

Ans
✗ A. They are optically active.
✗ B. They exist as enantiomeric pairs.
✗ C. They contain no chiral centers.
✓ D. They contain an internal plane of symmetry.

Question Type : MCQ
Question ID : 4410091485426
Option 1 ID : 4410095868169
Option 2 ID : 4410095868172
Option 3 ID : 4410095868171
Option 4 ID : 4410095868170
Status : Answered C
Chosen Option :

Q.75 **Which dimension of wellness is related to being satisfied with one's job, achieving work-life balance, and professional development?**

Ans
✗ A. Intellectual Wellness
✓ B. Occupational Wellness
✗ C. Spiritual Wellness
✗ D. Financial Wellness

Question Type : MCQ
Question ID : 4410091522429
Option 1 ID : 4410096012831
Option 2 ID : 4410096012830
Option 3 ID : 4410096012833
Option 4 ID : 4410096012832
Status : Answered B
Chosen Option :

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Q.76 **Which of the following is an example of a teacher-centered method?**

Ans
✗ A. Inquiry
✗ B. Problem solving
✓ C. Demonstration
✗ D. Brainstorming

Question Type : MCQ
Question ID : 4410091503572
Option 1 ID : 4410095938497
Option 2 ID : 4410095938499
Option 3 ID : 4410095938496
Option 4 ID : 4410095938498
Status : Answered C
Chosen Option :

Q.77 **The exoskeleton of most fishes is formed by:**

Ans
✗ A. Hair and feathers
✓ B. Scales
✗ C. Chitin
✗ D. Keratinized plates

Question Type : MCQ
Question ID : 4410091497536
Option 1 ID : 4410095915241
Option 2 ID : 4410095915240
Option 3 ID : 4410095915242
Option 4 ID : 4410095915243
Status : Answered D
Chosen Option :

Q.78 **Radio and television are classified under which type of communication?**

Ans
✗ A. Commercial communication
✗ B. Localised communication
✗ C. Personal communication
✓ D. Mass communication

Question Type : MCQ
Question ID : 4410091500559
Option 1 ID : 4410095927106
Option 2 ID : 4410095927107
Option 3 ID : 4410095927104
Option 4 ID : 4410095927105
Status : Answered D
Chosen Option :

Q.79 **The initial rate method yields these observations for reaction A+B→ products:**

Run	[A](M)	[B](M)	Initial rate (Ms^{-1})
1	0.20	0.20	1.0×10^{-5}
2	0.40	0.20	4.0×10^{-5}
3	0.40	0.40	$1.6\times10^{-}$

What are the orders in [A] and [B]?

Ans
✗ A. 1 in A, 2 in B
✓ B. 2 in A, 2 in B
✗ C. 1 in A, 1 in B
✗ D. 2 in A, 1 in B

Question Type : MCQ
Question ID : 4410091493460
Option 1 ID : 4410095899479
Option 2 ID : 4410095899478
Option 3 ID : 4410095899477
Option 4 ID : 4410095899476
Status : Answered A
Chosen Option :

Q.80 **Which of the following statements best explains why substances with high dielectric constants are good solvents for ionic compounds?**

Ans
✗ A. They form covalent bonds with ions, stabilizing them.
✗ B. They possess low dipole moments that prevent ion–dipole interactions.
✓ C. They reduce the Coulombic attraction between oppositely charged ions.
✗ D. They enhance the lattice energy of the solute.

Question Type : MCQ
Question ID : 4410091486377

Q45 Select the most appropriate option that can be used as a one-word substitute for the highlighted segment in the given sentence.
Ancient legends tell of tribes where some warriors were known as eaters of human flesh.

(a) cannibal
(b) carnivore
(c) omnivore
(d) invader

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q46 Which nitrogenous waste product is primarily excreted by birds and most reptiles to conserve water?

(a) Urea
(b) Ammonia
(c) Uric acid
(d) Creatine

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q47 Adult echinoderms exhibit which type of symmetry, and how does it differ from that of their larvae?

(a) Radial symmetry; larvae are bilaterally symmetrical
(b) Bilateral symmetry; larvae are radially symmetrical
(c) Spiral symmetry; larvae are asymmetrical
(d) Asymmetry; larvae are also asymmetrical

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q48 Which of the following is NOT correct about Crystal Field Theory (CFT)?

(a) It considers the ligands as point charges and neglects covalent bonding
(b) It can explain the magnetic properties based on electron arrangement in t2g and eg orbitals
(c) The splitting of d-orbitals is always the same regardless of the ligand present
(d) The splitting of d-orbitals causes color by absorption of light in the visible region

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q49 Which of the following correctly describes the function of Pseudomonas?

(a) It produces a powerful antibiotic that kills all bacteria
(b) It is used in the production of yogurt
(c) It helps in nitrogen fixation in leguminous plants
(d) It is commonly found in the human gut and aids digestion

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q50 As per the Himachal Pradesh Economic Survey 2024-25, the primary sector contributed approximately what percentage to the State's economy during 2023-24?

(a) 10.1%
(b) 12.5%
(c) 15.3%
(d) 18.9%

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q51 In any Boric solid of hydrogen, the ratio H : B is:

(a) 1 : 2
(b) 2 : 3
(c) 3 : 2
(d) 1 : 1

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q52 हिमाचल में भेड़ और बकरियों में पेस्ट डेस पेटिट्स रुमिनेंट्स (PPR) रोग का टीकाकरण कब शुरू किया गया?

(a) 2 अगस्त, 2022 (PPR रोग मुक्त घोषणा के बाद)
(b) 15 अगस्त, 2021 (स्वतंत्रता दिवस पर)
(c) 2 अक्टूबर, 2023 (गांधी जयंती पर)
(d) 1 मार्च, 2024 (वित्तीय वर्ष की शुरुआत में)

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q53 The first step in guiding students with special problems is

(a) Psychoanalysis*
(b) Diagnosis
(c) Helping and Guidance
(d) Learning mechanism

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

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Q54 'सत्य ∘ असत्य' नामक युग्मक 'A' को और और होगा :

(a) अनुक्रम
(b) अनुक्रमित
(c) A ∘ A युग्मक है

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q55 Which liquid would show negative deviation from Raoult's law?

(a) Propanol + Propanal
(b) Acetone + Ethanol
(c) Acetone + Chloroform
(d) Phenol + Water

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q56 The major stage of H. antiquus responsible for economic damage is

(a) Cyst stage
(b) Adult female of host (Cow 4th molar)
(c) Egg
(d) Fifth larval stage

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q57 An inclusive classroom most effectively functions when the teacher:

(a) Uses the same worksheets to promote collaborative interactions
(b) Provides assessments and tools to identify learning disabilities
(c) Uses self-checking strategies to ensure class success for all students
(d) Selects the curriculum based on students' primary teaching area needs

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q58 What is the molecular shape of CF_4 predicted by VSEPR theory?

(a) Square planar
(b) Tetrahedral
(c) Trigonal pyramidal
(d) Octahedral

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q59 Which marine bivalve genus is most associated with the production of high-quality pearls?

(a) Crassostrea
(b) Mytilus
(c) Pinctada
(d) Tridacna

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q60 हिमाचल भवन में किस तल में प्रधानमंत्री तथा मुख्यमंत्री के कार्यालय स्थित हैं?

(a) तल 1
(b) तल 2
(c) तल 3
(d) तल 4

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q61 Which of the following is NOT a cause of genetic drift in populations?

(a) Random changes in allele frequencies
(b) A bottleneck event that reduces the population size
(c) Natural selection favoring certain traits
(d) Genetic recombination during meiosis

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q62 कलम चतुर्भुज-ABCD वृत्त खींचिए तथा AB, BC और CD को क्रमशः P, Q और R पर इस प्रकार स्पर्श करता है कि AP = 4 cm, BP = 3 cm और CR = 2 cm हो, तो DR की लंबाई ज्ञात कीजिए।

(a) 1 cm
(b) 2 cm
(c) 3 cm
(d) 4 cm

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q63 The elements placed in Group 18 of the modern periodic table are characterized by their common property that they have extremely low chemical reactivity?

(a) Metallic character
(b) Valency
(c) Ionic nature
(d) Inertness

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q64 The tissue that is NOT part of the dermal tissue system is

(a) Cork
(b) Periderm
(c) Epidermis
(d) Xylem

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

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Q65 Which of the following crops provides raw material for sugar and jaggery industries?

(a) Fenugreek (Methi)
(b) Sugarcane (Saccharum officinarum)
(c) Groundnut (Arachis hypogaea)
(d) Cotton (Gossypium)

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q66 In the molecule ethene (C_2H_4), the carbon-carbon double bond is described in Valence Bond theory by which specific combination of bonds?

(a) One sigma bond and one pi bond
(b) Two sp hybridized bonds
(c) One sigma bond and two pi bonds
(d) Two sp hybridized bonds and one pi bond

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q67 Which of the following statements correctly represents Mendel's law of segregation?

(a) Genes in diploid cells exist in pairs
(b) Alleles separate during gamete formation
(c) Alleles of different genes assort independently
(d) Each gamete receives only one allele that each gene pair

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q68 'सत्य के विरुद्धार्थक शब्द' 'मिथ्या' के अनुसार, 'असत्य बोलना' और 'झूठी बातचीत' के लिए समानार्थक शब्दों- क्रमशः मिथ्योक्ति तथा मिथ्यालाप का प्रयोग किया जाता है।

(a) सत्य
(b) सत्य
(c) मिथ्या
(d) मिथ्या

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q69 Which of the following is an example of a Brønsted-Lowry base?

(a) CH_3COOH
(b) NH_3
(c) HCl
(d) H_2O

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q70 In a certain code language, 'HATS' is coded as '3157' and 'SIDE' is coded as '1416'. What is the code for 'S' in the given code language?

(a) 7
(b) 1
(c) 5
(d) 3

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q71 निम्नलिखित में से किस राज्य में 'ऑपरेशन ब्लैक पैंथर' चलाया गया था?

(a) तमिलनाडु
(b) केरल
(c) कर्नाटक
(d) आंध्र प्रदेश

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

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Q72 Members of which group of Proteins possess both plant and animal protein characteristics?

(a) Cucurbitaceae
(b) Solanaceae
(c) Poaceae
(d) Leguminosae

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q73 हिमाचल में भेड़ और बकरियों में पेस्ट डेस पेटिट्स रुमिनेंट्स (PPR) रोग का टीकाकरण कब शुरू किया गया?

(a) 2 अगस्त, 2022 (PPR रोग मुक्त घोषणा के बाद)
(b) 15 अगस्त, 2021 (स्वतंत्रता दिवस पर)
(c) 2 अक्टूबर, 2023 (गांधी जयंती पर)
(d) 1 मार्च, 2024 (वित्तीय वर्ष की शुरुआत में)

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q74 Identify the region of an antibody that determines its antigen-binding specificity.

(a) Constant region
(b) Hinge region
(c) Fc region

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q75 Which of the following classes of algae lacks chlorophyll b but possesses chlorophyll c?

(a) Chlorophyceae
(b) Rhodophyceae
(c) Euglenophyceae
(d) Chrysophyceae

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q76 Which of the following enzymes facilitate the recognition of specific DNA sequences during PCR?

(a) Ligase
(b) Restriction enzymes
(c) Helicase
(d) Taq DNA polymerase

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

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Q77 Which of the following sources of pollution is the major one that specifically results in mercury poisoning, causing Minamata disease?

(a) Industrial waste
(b) Domestic sewage
(c) Agricultural runoff
(d) Thermal pollution

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q78 The fruits of _____ plant are known as pepos, internal worms, rinds and urinary stones.

(a) Cucurbitaceae
(b) Solanaceae
(c) Malvaceae
(d) Leguminosae

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q79 दर्शाए गए संचरण में, समय t के लिए तरंग का समीकरण $y = 0.02 \sin(50\pi t - 2\pi x)$ है, जहाँ x और y मीटर में तथा t सेकंड में है। तरंग की आवृत्ति ज्ञात कीजिए।

(a) 50 Hz
(b) 25 Hz
(c) 2 Hz
(d) 1 Hz

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q80 हिमाचलियत भवन में संग्रहित तथा का विवरण निम्नलिखित में से किस तल में स्थित है?

(a) तल 1
(b) तल 2
(c) तल 3
(d) तल 4

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q81 Substitution of purine for a pyrimidine and vice versa results in

(a) Transition
(b) Transversion
(c) Deletion
(d) Translation

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q82 Which pollinator is primarily responsible for pollinating cleistogamous flowers and ensuring genetic variation in their offspring?

(a) Bees
(b) Butterflies
(c) Flowers
(d) Self-pollination

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

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Q83 In frogs, the transformation from a tadpole to an adult frog is mainly controlled by:

(a) Insulin
(b) Estrogen
(c) Thyroxine

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q84 What does a 'fixed interest rate' in a loan imply?

(a) The interest amount remains the same throughout the loan term
(b) The interest rate changes annually
(c) The interest depends on the lender
(d) The interest rate is fixed for the first year only

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q85 In the Bonnemaison rearrangement, oximes are converted into amides. The rearrangement involves migration of which group?

(a) The group anti to the hydroxyl group
(b) The group syn to the hydroxyl group
(c) The group that forms the strongest C–N bond
(d) The group with the highest migratory aptitude

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Q86 Which type of classification system groups organisms based on their evolutionary relationships and common ancestry?

(a) Artificial classification
(b) Phylogenetic classification
(c) Morphological classification
(d) Habitat-based classification

Question Type : MCQ
Question ID : xxxxxxxxxx
Option 1 ID : xxxxxxxxxx
Option 2 ID : xxxxxxxxxx
Option 3 ID : xxxxxxxxxx
Option 4 ID : xxxxxxxxxx
Status : xxxxxxxxxx
Chosen Option :

Question Type : MCQ
Question ID : 67e8b1b1...
Option 1 ID : 67e8b1b1...
Option 2 ID : 67e8b1b1...
Option 3 ID : 67e8b1b1...
Option 4 ID : 67e8b1b1...
Status : Answered
Chosen Option : 4

*** A car accelerates uniformly from rest at a speed of 2 m/s2. What is its velocity after 5 seconds?

ans
1. 5 m/s
2. 7 m/s
3. 10 m/s
4. 12 m/s

Question Type : MCQ
Question ID : 67e8b1b2...
Option 1 ID : 67e8b1b2...
Option 2 ID : 67e8b1b2...
Option 3 ID : 67e8b1b2...
Option 4 ID : 67e8b1b2...
Status : Answered
Chosen Option : 3

*** Which of the following type of Gymnospermous wood is used in pencil and has narrow medullary rays?

ans
1. Pinewood tree
2. Deodar wood
3. Cryptomeria wood

Question Type : MCQ
Question ID : 67e8b1b3...
Option 1 ID : 67e8b1b3...
Option 2 ID : 67e8b1b3...
Option 3 ID : 67e8b1b3...
Option 4 ID : 67e8b1b3...
Status : Answered
Chosen Option : 2

*** In which type of viola, a stamen is surrounded by sylven and then petaloid?

ans
1. Tricolor
2. Odorata
3. Papilionacea
4. Spermaceti

Question Type : MCQ
Question ID : 67e8b1b4...
Option 1 ID : 67e8b1b4...
Option 2 ID : 67e8b1b4...
Option 3 ID : 67e8b1b4...
Option 4 ID : 67e8b1b4...
Status : Answered
Chosen Option : 1

*** Insyane ahaleeda are primarily obtained from which plant family?

ans
1. Rosaceae
2. Fabaceae
3. Cornaceae
4. Malvaceae

Question Type : MCQ
Question ID : 67e8b1b5...
Option 1 ID : 67e8b1b5...
Option 2 ID : 67e8b1b5...
Option 3 ID : 67e8b1b5...
Option 4 ID : 67e8b1b5...
Status : Answered
Chosen Option : 3

*** Sleeve slip are ice ice sheet Gilfoswell?? nagp: fillfillsaz n'd fedwdfilz a' ?

ans
1. Lead ing
2. Lead ing
3. Lead ing
4. Lead ing

Question Type : MCQ
Question ID : 67e8b1b6...
Option 1 ID : 67e8b1b6...
Option 2 ID : 67e8b1b6...
Option 3 ID : 67e8b1b6...
Option 4 ID : 67e8b1b6...
Status : Answered
Chosen Option : 2

*** fillfillsaz n'ad'a'ab-aff. Sleeve slip are ice ice sheet Gilfoswell?? nagp: fillfillsaz n'd fedwdfilz a' ?

ans
1. Fillfillsaz n'ad'a'ab-aff.
2. Ab- aff Fillsaz'b fillfill
3. Fill-aff fillfillsaz'b-aff

Question Type : MCQ
Question ID : 67e8b1b7...
Option 1 ID : 67e8b1b7...
Option 2 ID : 67e8b1b7...
Option 3 ID : 67e8b1b7...
Option 4 ID : 67e8b1b7...
Status : Answered
Chosen Option : 1

*** Which of the following correctly explains why liquids have definite volume but not definite shape?

ans
1. Molecules are arranged in a rigid, fixed lattice structure
2. Molecules have strong intermolecular forces that prevent movement
3. Molecules have no space to move, so they cannot change shape
4. Molecules are far apart and do not interact with each other

Question Type : MCQ
Question ID : 67e8b1b8...
Option 1 ID : 67e8b1b8...
Option 2 ID : 67e8b1b8...
Option 3 ID : 67e8b1b8...
Option 4 ID : 67e8b1b8...
Status : Answered
Chosen Option : 2

*** What is an essential aspect of developing a professional set?

ans
1. Using advanced tools
2. Ignoring professional ethics and boundaries
3. Following personal values over others

Question Type : MCQ
Question ID : 67e8b1b9...
Option 1 ID : 67e8b1b9...
Option 2 ID : 67e8b1b9...
Option 3 ID : 67e8b1b9...
Option 4 ID : 67e8b1b9...
Status : Answered
Chosen Option : 3

*** For the cell reaction: $Fe2+ + e^- \rightarrow Fe3+$, the observed EMF deviates from thermal equation at high ionic strength. This deviation is due to _____.

ans
1. Ionic concentration
2. Ionic coefficient activity
3. Activity coefficient

Question Type : MCQ
Question ID : 67e8b1ba...
Option 1 ID : 67e8b1ba...
Option 2 ID : 67e8b1ba...
Option 3 ID : 67e8b1ba...
Option 4 ID : 67e8b1ba...
Status : Answered
Chosen Option : 3

*** Which of the following is a symptom of dermatitis in case of epilepsy?

ans
1. Eczema
2. Psoriasis rash
3. Rosacea

Question Type : MCQ
Question ID : 67e8b1bb...
Option 1 ID : 67e8b1bb...
Option 2 ID : 67e8b1bb...
Option 3 ID : 67e8b1bb...
Option 4 ID : 67e8b1bb...
Status : Answered
Chosen Option : 1

*** Which feature of Rutherford's model could NOT be explained by the classical theory?

ans
1. The circumference of atom
2. The stability of atom
3. The nucleus of atom

Question Type : MCQ
Question ID : 67e8b1bc...
Option 1 ID : 67e8b1bc...
Option 2 ID : 67e8b1bc...
Option 3 ID : 67e8b1bc...
Option 4 ID : 67e8b1bc...
Status : Answered
Chosen Option : 2

*** Which law of reflection states that the angle of incidence is equal to the angle of reflection?

ans
1. Law of Earth
2. Law of Gravity
3. Law of Reflection

Question Type : MCQ
Question ID : 67e8b1bd...
Option 1 ID : 67e8b1bd...
Option 2 ID : 67e8b1bd...
Option 3 ID : 67e8b1bd...
Option 4 ID : 67e8b1bd...
Status : Answered
Chosen Option : 3

*** Maize, a kharif crop, is used for _____.

ans
1. Fodder only
2. Food only
3. Food & fodder

Question Type : MCQ
Question ID : 67e8b1be...
Option 1 ID : 67e8b1be...
Option 2 ID : 67e8b1be...
Option 3 ID : 67e8b1be...
Option 4 ID : 67e8b1be...
Status : Answered
Chosen Option : 3

*** Which of the following conditions will be most suitable for efficient absorption of water by plant roots?

ans
1. Dry soil (water has lower water potential as compared to the cell sap)
2. Soil with high salt concentration (water has lower water potential as compared to the cell sap)
3. Soil with water has water potential equal to that of cell sap
4. Soil with high water potential (water has higher water potential as compared to the cell sap)

Question Type : MCQ
Question ID : 67e8b1bf...
Option 1 ID : 67e8b1bf...
Option 2 ID : 67e8b1bf...
Option 3 ID : 67e8b1bf...
Option 4 ID : 67e8b1bf...
Status : Answered
Chosen Option : 4

*** Which of the following statements correctly describes the hours's motion around the Earth?

ans
1. It moves with uniform acceleration in a straight line
2. It moves in a circular path
3. It moves with changing speed in a straight line

Question Type : MCQ
Question ID : 67e8b1c0...
Option 1 ID : 67e8b1c0...
Option 2 ID : 67e8b1c0...
Option 3 ID : 67e8b1c0...
Status : Not Answered
Chosen Option : --

*** The body of mushrooms is:

ans
1. Leaflike and made up of cells
2. Root-like and made up of cells
3. Stem-like and made up of cells
4. Thread-like and made up of hyphae

Question Type : MCQ
Question ID : 67e8b1c1...
Option 1 ID : 67e8b1c1...
Option 2 ID : 67e8b1c1...
Option 3 ID : 67e8b1c1...
Option 4 ID : 67e8b1c1...
Status : Answered
Chosen Option : 4

*** In Belgium, which type of power-sharing gives cultural communities authority over cultural, educational and language matters?

ans
1. Federal with territorial division
2. Federal with cultural division
3. Federal with ethnic division
4. Power-sharing through parliamentary

Question Type : MCQ
Question ID : 67e8b1c2...
Option 1 ID : 67e8b1c2...
Option 2 ID : 67e8b1c2...
Option 3 ID : 67e8b1c2...
Option 4 ID : 67e8b1c2...
Status : Answered
Chosen Option : 4

*** 'Ergot' is an alkaloid that is obtained from a fungus called:

ans
1. Agaricus bisporus
2. Claviceps purpurea
3. Puccinia recondita

Question Type : MCQ
Question ID : 67e8b1c3...
Option 1 ID : 67e8b1c3...
Option 2 ID : 67e8b1c3...
Option 3 ID : 67e8b1c3...
Status : Not Answered
Chosen Option : --

*** Which of the following is the correct description of ester linkage in Phorbitol pentoxide for locomotion?

ans
1. The alcoholic groupings are in para form
2. The alcoholic groupings are in meta form
3. The alcoholic groupings are in ortho form
4. The ester linkage is between the alcoholic groups

Question Type : MCQ
Question ID : 67e8b1c4...
Option 1 ID : 67e8b1c4...
Option 2 ID : 67e8b1c4...
Option 3 ID : 67e8b1c4...
Option 4 ID : 67e8b1c4...
Status : Answered
Chosen Option : 4

*** आवी अमल का या अधिक- fillfillsaz ka aaz-ang ang d'a' d'a-' : nagp: a'ab- a'ab-ang' : d'a' ka aaz- ka aaz- ka ang : a'ab- a'ab-ang' : d'a' ka aaz- ka aaz- ka ang' आवी अमल का या अधिक- fillfillsaz ka aaz-ang ang d' ang' : nagp: a'ab- a'ab-ang' : d'a' ka aaz- ka aaz- ka ang' fillfill का अधिक का d'a'

ans
1. d'a' - d'a'
2. d'a' - d'a'
3. d'a' - d'a'

Question Type : MCQ
Question ID : 67e8b1c5...
Option 1 ID : 67e8b1c5...
Option 2 ID : 67e8b1c5...
Option 3 ID : 67e8b1c5...
Status : Not Answered
Chosen Option : --

*** The compound form of the sentence: "He finish his work before she began cooking" _____ shift _____ begin.

ans
1. perfect, ignore
2. perfect, ignore
3. continuous, ignore

Question Type : MCQ
Question ID : 67e8b1c6...
Option 1 ID : 67e8b1c6...
Option 2 ID : 67e8b1c6...
Option 3 ID : 67e8b1c6...
Status : Not Answered
Chosen Option : --

*** Which of the following sequences correctly identifies the reaction intermediates formed during the Pinacol–Pinacolone rearrangement?

ans
1. Carbocation → Carbanion → Alkene
2. Carbocation → Oxonium ion → Carbocation
3. Carbocation → Carbanion → Carbocation

Question Type : MCQ
Question ID : 67e8b1c7...
Option 1 ID : 67e8b1c7...
Option 2 ID : 67e8b1c7...
Option 3 ID : 67e8b1c7...
Status : Not Answered
Chosen Option : --

*** The scientific name of Rohu, one of the Indian major carps, is:

ans
1. Labeo rohita
2. Labeo bata
3. Labeo fimbriatus

Question Type : MCQ
Question ID : 67e8b1c8...
Option 1 ID : 67e8b1c8...
Option 2 ID : 67e8b1c8...
Option 3 ID : 67e8b1c8...
Status : Not Answered
Chosen Option : --

*** Which of the following statements is correct about amino acid classification?

ans
1. Proteinogenic amino acids are those that can be synthesized from fats
2. Amino acids are classified only based on their side chain structure
3. Amino acids are classified based on their side chain polarity and charge
4. Essential and nonessential are other correct classification

Question Type : MCQ
Question ID : 67e8b1c9...
Option 1 ID : 67e8b1c9...
Option 2 ID : 67e8b1c9...
Option 3 ID : 67e8b1c9...
Option 4 ID : 67e8b1c9...
Status : Answered
Chosen Option : 3

*** Which principle of curriculum construction is best reflected when a curriculum is organized so that learning experiences build upon earlier concepts toward more complex understanding?

ans
1. Sequence: It describes ensuring that learning experiences unfold progressively, with each one building on the previous.
2. Integration: It emphasizes connecting different learning experiences to create a unified and meaningful whole.
3. Scope: It refers to the breadth and depth of content and experiences included within the curriculum.
4. Balance: It ensures that different types of learning experiences are given appropriate attention.

Question Type : MCQ
Question ID : 67e8b1ca...
Option 1 ID : 67e8b1ca...
Option 2 ID : 67e8b1ca...
Option 3 ID : 67e8b1ca...
Option 4 ID : 67e8b1ca...
Status : Answered
Chosen Option : 1

*** In the life cycle of Ascaris lumbricoides, the infective stage for human and its primary mode of entry are, respectively,

ans
1. Third-stage larva; ingestion of contaminated food or water
2. Third-stage larva; penetration through skin
3. Egg; penetration through skin
4. Egg; ingestion of contaminated food or water

Question Type : MCQ
Question ID : 67e8b1cb...
Option 1 ID : 67e8b1cb...
Option 2 ID : 67e8b1cb...
Option 3 ID : 67e8b1cb...
Option 4 ID : 67e8b1cb...
Status : Answered
Chosen Option : 3

*** Cyclone-resistant houses are best designed with:

ans
1. Tall, narrow structures with sharp edges
2. Low, wide structures with rounded roofs
3. Flat roofs and open ventilation systems
4. Fragile decorative elements facing the wind

Question Type : MCQ
Question ID : 67e8b1cc...
Option 1 ID : 67e8b1cc...
Option 2 ID : 67e8b1cc...
Option 3 ID : 67e8b1cc...
Option 4 ID : 67e8b1cc...
Status : Answered
Chosen Option : 2

*** Which of the following combinations of growth regulators most effectively promotes callus formation during micropropagation of many angiosperms?

ans
1. Low auxin, high cytokinin
2. Equal auxin and cytokinin
3. High auxin, low cytokinin

Question Type : MCQ
Question ID : 67e8b1cd...
Option 1 ID : 67e8b1cd...
Option 2 ID : 67e8b1cd...
Option 3 ID : 67e8b1cd...
Status : Not Answered
Chosen Option : --

*** The resting membrane potential of a typical neuron is approximately:

ans
1. -70 mV
2. +30 mV
3. 0 mV

Question Type : MCQ
Question ID : 67e8b1ce...
Option 1 ID : 67e8b1ce...
Option 2 ID : 67e8b1ce...
Option 3 ID : 67e8b1ce...
Status : Not Answered
Chosen Option : --

*** Which of the following is a non-poisonous snake?

ans
1. Cobra
2. Krait
3. Viper

Question Type : MCQ
Question ID : 67e8b1cf...
Option 1 ID : 67e8b1cf...
Option 2 ID : 67e8b1cf...
Option 3 ID : 67e8b1cf...
Status : Not Answered
Chosen Option : --

*** Broadly, how many main seasons are recognized in the climate of Himachal Pradesh?

ans
1. Two — Summer and Winter
2. Three — Summer, Rainy and Winter
3. Four — Spring, Summer, Rainy and Winter

Question Type : MCQ
Question ID : 67e8b1d0...
Option 1 ID : 67e8b1d0...
Option 2 ID : 67e8b1d0...
Option 3 ID : 67e8b1d0...
Status : Not Answered
Chosen Option : --

*** ६, ३, ९, ४, ७, ५ এই ৬ টি সংখ্যা দিয়ে ৬ টি ভিন্ন ৩ট ৩-বিশিষ্ট যৌগিক গঠন করা যায়। এ ৬ টি যৌগ থেকে যৌগটি C_3 ও H_2 যে যৌগ থেকে পাওয়া যায় তা হলো ১ নং যৌগ। ১ নং যৌগ C_3 ও H_2 যে যৌগ থেকে পাওয়া যায় তা হলো ২ নং যৌগ। ২ নং যৌগ C_3 ও H_2 যে যৌগ থেকে পাওয়া যায় তা হলো ৩ নং যৌগ। ৩ নং যৌগ C_3 ও H_2 যে যৌগ থেকে পাওয়া যায় তা হলো ৪ নং যৌগ। ৪ নং যৌগ C_3 ও H_2 যে যৌগ থেকে পাওয়া যায় তা হলো ৫ নং যৌগ। ৫ নং যৌগ C_3 ও H_2 যে যৌগ থেকে পাওয়া যায় তা হলো ৬ নং যৌগ।

ans
1. ৩
2. ৪
3. ৫

Question Type : MCQ
Question ID : 67e8b1d1...
Option 1 ID : 67e8b1d1...
Option 2 ID : 67e8b1d1...
Option 3 ID : 67e8b1d1...
Status : Not Answered
Chosen Option : --

*** Which feature helps birds maintain a constant body temperature during flight?

ans
1. Feather fluffing
2. Shivering muscles
3. Panting
4. Metabolic slowing

Question Type : MCQ
Question ID : 67e8b1d2...
Option 1 ID : 67e8b1d2...
Option 2 ID : 67e8b1d2...
Option 3 ID : 67e8b1d2...
Option 4 ID : 67e8b1d2...
Status : Not Answered
Chosen Option : --

*** A medium has a refractive index of 1.5. Calculate the speed of light in this medium.

ans
1. 2 × 10^8 m/s
2. 3 × 10^8 m/s
3. 1.5 × 10^8 m/s
4. 4.5 × 10^8 m/s

Question Type : MCQ
Question ID : 67e8b1d3...
Option 1 ID : 67e8b1d3...
Option 2 ID : 67e8b1d3...
Option 3 ID : 67e8b1d3...
Option 4 ID : 67e8b1d3...
Status : Not Answered
Chosen Option : --

*** Which of the following is the difference between primary and secondary succession in ecological terms?

ans
1. Primary succession occurs in areas with existing soil, while secondary succession occurs in areas without soil
2. Primary succession occurs in areas without soil, while secondary succession occurs in areas with existing soil
3. Primary succession occurs in areas with existing soil, while secondary succession occurs in areas without soil
4. Primary succession occurs in areas without soil, while secondary succession occurs in areas with existing soil

Question Type : MCQ
Question ID : 67e8b1d4...
Option 1 ID : 67e8b1d4...
Option 2 ID : 67e8b1d4...
Option 3 ID : 67e8b1d4...
Option 4 ID : 67e8b1d4...
Status : Not Answered
Chosen Option : --

*** Which of the following programmes was launched by the Government of India in 2015 to provide skill-focused vocational training for adolescent girls?

ans
1. Udaan Scheme
2. Sabla Yojana
3. Kishori Shakti Yojana
4. Nai Roshni

Question Type : MCQ
Question ID : 67e8b1d5...
Option 1 ID : 67e8b1d5...
Option 2 ID : 67e8b1d5...
Option 3 ID : 67e8b1d5...
Option 4 ID : 67e8b1d5...
Status : Not Answered
Chosen Option : --

*** Which of the following is the correct body wall organization in Phylum Echinata?

ans
1. The body wall consists of one cellular layer and no extracellular layer
2. The body wall consists of one cellular layer and one extracellular layer
3. The body wall consists of two cellular layers and no extracellular layer
4. The body wall consists of two cellular layers and one extracellular layer

Question Type : MCQ
Question ID : 67e8b1d6...
Option 1 ID : 67e8b1d6...
Option 2 ID : 67e8b1d6...
Option 3 ID : 67e8b1d6...
Option 4 ID : 67e8b1d6...
Status : Not Answered
Chosen Option : --

*** Which feature defines an inclusive classroom?

ans
1. Separate learning spaces
2. Flexible teaching methods
3. Uniform curriculum
4. Controlled noise

Question Type : MCQ
Question ID : 67e8b1d7...
Option 1 ID : 67e8b1d7...
Option 2 ID : 67e8b1d7...
Option 3 ID : 67e8b1d7...
Option 4 ID : 67e8b1d7...
Status : Not Answered
Chosen Option : --

*** Scientist _____ first provided the explanation about the presence of a small amount of gases on a chromosome at _____.

ans
1. Joseph Lister, Cambridge
2. Joseph Lister, Oxford
3. Hugo de Vries, Utrecht
4. Joseph Lister, Utrecht

Question Type : MCQ
Question ID : 67e8b1d8...
Option 1 ID : 67e8b1d8...
Option 2 ID : 67e8b1d8...
Option 3 ID : 67e8b1d8...
Option 4 ID : 67e8b1d8...
Status : Not Answered
Chosen Option : --

*** Which of the following statements correctly describes molecules in a perfect gas?

ans
1. They have a definite volume and shape
2. They have a volume influenced by intermolecular attractions
3. They have a volume equal to the volume of the container
4. They have only their translational kinetic energy

Question Type : MCQ
Question ID : 67e8b1d9...
Option 1 ID : 67e8b1d9...
Option 2 ID : 67e8b1d9...
Option 3 ID : 67e8b1d9...
Option 4 ID : 67e8b1d9...
Status : Not Answered
Chosen Option : --

*** Which group of organisms forms the primary producers in most freshwater ecosystems?

ans
1. Phytoplankton and algae
2. Zooplankton and fish
3. Bacteria and decomposers
4. Aquatic insects and crustaceans

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Q.1 A change in the gene frequency of a population occurs by chance alone without evolutionary phenomenon is called process ?
(1) Selection
(2) Genetic equilibrium
(3) Genetic drift
(4) Mutation

Q.2 The National Council for Vocational Education and Training (NCVET) is responsible for ?
(1) Vocational education in the country
(2) Training programmes in the country
(3) Developing vocational and skilled workforce

Q.3 (pdf) ezsdaf ;d fuEufyf[kr esa ls dkSu&lk ekSfyd Hkkj fo|qr vkos'k gS\ (esa ls)
(1) Electron
(2) ikWt.Vkuq
(3) izksVkWu
(4) U;wVªkWu

Q.4 वह यौगिक जिसमें –अणवी रिक्तियाँ (Atomic point lesions) की संख्या सबसे कम होती है ?
(1) Sodium chloride (सोडियम क्लोराइड)
(2) Silver bromide (सिल्वर ब्रोमाइड)
(3) Silver chloride (सिल्वर क्लोराइड)
(4) Silver iodide (सिल्वर आयोडाइड)

Q.5 जो सुविधाएँ ए.एस.पी.नेट की ओर से वेब सामग्री और विशेषज्ञता के लिए प्रमुख संसाधन के रूप में काम करती हैं, वे हैं ?
(1) Chat room
(2) ASP.net
(3) Forums
(4) Blogs

Q.6 The process by which one plant community is gradually replaced by another until a stable community develops in a bare area is called ?
(1) Plant succession
(2) Ecological succession
(3) Plant migration
(4) Plant regression

Q.7 Amyloplasts are responsible for ?
(1) Protein
(2) Starch
(3) Fats
(4) Proteoses

Q.8 What is the electronegativity value of fluorine on the Pauling scale approximately ?
(1) 4
(2) 3
(3) 2
(4) 1

Q.9 Which of the following is true for an isolated system according to the First Law of Thermodynamics ?
(1) $\Delta U = 0$
(2) $\Delta H = 0$
(3) $\Delta T = 0$
(4) $\Delta P = 0$

Q.10 Which of the following is an exotic breed of fowl and is known as an excellent egg layer?
(1) Aseel
(2) Kadaknath
(3) Leghorn
(4) Ongole

Q.11 Evaluate the Assertion (A) and Reason (R) based on facts and define the relationship between both.
(A) Vitamin deficiency can lead to decreased iron metabolism in the body.
(R) Copper is required for the activity of ferrooxidase enzymes that assist in iron absorption and metabolism.
(1) Both A and R are true, and R is the correct explanation of A.
(2) Both A and R are true, but R is not the correct explanation of A.
(3) A is false but R is true.
(4) Both A and R are false.

Q.12 The main mode of transmission of tuberculosis is:
(1) Contaminated food
(2) Droplet infection
(3) Insect bite
(4) Sexual route

Q.13 The ventricles of the heart are separated by a thick muscular wall called the
(1) Septum
(2) Pericardium
(3) Endocardium
(4) Myocardium

Q.14 The stretch which are given in Plathyhelminthes are called
(1) Proglottids
(2) Scolex
(3) Hooks
(4) Neck

Q.15 What will come in the place of '?' in the following equation, if 'x' and '-' are interchanged and '÷' and '+' are interchanged?
$12 \times 3 + 48 \div 6 - 24 = ?$
(1) 6
(2) 8
(3) 7
(4) 10

Q.16 Evaluate the Assertion (A) and Reason (R) based on facts and define the relationship between both.
(A) The half-life of a radioactive isotope is the time required for half of the atoms in a sample to decay.
(R) Half-life of radioactive isotopes is independent of the initial amount of the isotope.
(1) A is correct, but R is not correct.
(2) Both A and R are correct and R is the correct explanation of A.
(3) A is incorrect, but R is correct.
(4) Both A and R are correct but R is not the correct explanation of A.

Q.17 Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
A. to be a good doctor
B. before I grow deaf
C. to teach the safety
D. I have to learn
E. they planned to leave
(1) D, B, E, C, A
(2) D, E, B, A, C
(3) E, they planned to leave
(4) C, to teach the safety

Q.18 Which of the following plant growth regulators has a role in breaking of seed dormancy of peanut seed?
(1) Ethylene
(2) Abscisic acid
(3) Auxins
(4) Cytokinins

Q.19 In a floral description, the term 'Polyandrous' means
(1) Flowers are without a petal
(2) Flowers are without a calyx
(3) Flowers with Numerous Stamens
(4) Flowers are free from each other

Q.20 Which of the following plant kingdom is represented by the main plant body of gametophyte ?
(1) Thallophyta
(2) Pteridophyta
(3) Gymnosperms
(4) Angiosperms

Q.21 Which of the following is NOT correct regarding E2 elimination reaction?
(1) E2 reaction occurs in one single step without intermediates
(2) E2 reaction is a single concerted step without intermediates
(3) The rate of E2 reaction depends on both the substrate and the base
(4) The rate of E2 reaction depends on both the substrate and the solvent

Q.22 According to social constructivism, knowledge is primarily constructed through
(1) Individual reflection and introspection
(2) Memorization of facts and information
(3) Interaction and collaboration with others
(4) Passive reception of information

Q.23 The hybridization of the central atom in BrO_3^- is:
(1) sp^3
(2) sp^2
(3) sp^3d

Q.24 In genetics, a 'test cross' is performed primarily to
(1) Check if a dominant trait is true-breeding (homozygous)
(2) Determine the genotype of an individual showing a dominant phenotype
(3) Determine the ability of chromosomes to segregate

Q.25 Before the INTERNET, the world in the pre-internet era The faulty vacuum system caused a serious occurrence during the building's maintenance work.
(1) Library
(2) Learning
(3) Conference

Q.26 Which of the following statements are true regarding the cohesion theory of ascent of water transport in the xylem?
(A) Cohesion refers to the attraction between water molecules and xylem cell walls, which aids in the upward movement of water.
(B) Cohesion is the attraction between water molecules, which helps maintain continuous columns of water within the xylem.
(C) Cohesion breaks the continuity of the water column and prevents water transport in the xylem.
(D) Cohesion helps the continuity of water column and prevents water transport in the xylem temporarily.
(1) A, B, C only
(2) A, B only
(3) C only
(4) A only

Q.27 हिमोग्लोबिन हीमोग्लोबिन का रंग पीला/पीला-हरा/लाल/नीला-हरा होता है ?
(1) Yellow/Yellow-green/Red/Blue-green
(2) Yellow/Yellow-green/Red/Blue-green
(3) Yellow/Yellow-green/Red/Blue-green
(4) Yellow/Yellow-green/Red/Blue-green

Q.28 Qjksxu ukbVªkstu ds ifr[kaMu esa fuEu&esa ls fdldk mi;ksx ugha fd;k tkrk gS ?
(1) ikuh
(2) ok;q
(3) ty
(4) ok"i

Q.29 Which of the following is/are considered important adaptation that enabled reptiles to become independent of water for reproduction?
(A) Internal fertilization
(B) Shelled eggs
(C) Scaly skin
(D) Amniotic egg
(1) A only
(2) A and B only
(3) A, B and C only
(4) A, B, C and D only

Q.30 Which of the following is a major evolutionary adaptation that enabled reptiles to become independent of water for reproduction?
(1) Internal fertilization
(2) Shelled eggs
(3) Scaly skin
(4) Amniotic egg

Q.31 Which of the following statements is correct about the half-life of a first-order reaction?
(1) The half-life is dependent on the initial concentration of the reactant.
(2) The half-life is independent of the initial concentration of the reactant.
(3) The half-life is directly proportional to the square of the initial concentration.
(4) The half-life is inversely proportional to the square of the initial concentration.

Q.32 Which of the following components underpass sulfonation most readily under standard electrophilic conditions?
(1) Benzene
(2) Toluene
(3) Chlorobenzene

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Q.33 When aqueous bromine is added to D-glucose, the solution loses its color and gluconic acid is formed. Which of the following statements is true about the structure of gluconic?
(1) It contains a carbonyl group
(2) It contains a carboxylic acid group
(3) It contains a primary alcohol group
(4) It contains all of the above groups

Comprehension:
Read the passage carefully and answer the questions that follow.
Plant cells are eukaryotic cells with a true nucleus that undergo division and differentiation throughout a plant's development. They are surrounded by cell walls made of cellulose, hemicellulose, and pectin. Other than cell walls, plant cells also have cytoplasm, cell membranes, cellular organelles such as mitochondria, endoplasmic reticulum, chloroplast, mitochondria, and Golgi apparatus. One of their most distinctive features is photosynthesis, a process that allows plants to produce their own food, setting them apart from other living beings.
Plants are multicellular organisms composed of numerous specialised cells, each acting as a functional unit of the Plantae kingdom. Based on their functions, plant cells are broadly classified into three types: Parenchyma cells are the most abundant, making up around 80% of living plant tissues, and are responsible for photosynthesis, storage, and tissue regeneration. Collenchyma cells provide flexible support to growing parts of the plant, like young stems and leaves, giving them strength without restricting growth. Sclerenchyma cells are long cells with unevenly thickened walls that provide flexibility and support to mature plant parts.
SubQuestion No : 150
What is the structure of the passage?
(1) Narrative
(2) Descriptive
(3) Persuasive
(4) Expository

Q.34
(1) Parenchyma cells
(2) Collenchyma cells
(3) Sclerenchyma cells
(4) Xylem cells

Comprehension:
Read the passage carefully and answer the questions that follow.
Plant cells are eukaryotic cells with a true nucleus that undergo division and differentiation throughout a plant's development. They are surrounded by cell walls made of cellulose, hemicellulose, and pectin. Other than cell walls, plant cells also have cytoplasm, cell membranes, cellular organelles such as mitochondria, endoplasmic reticulum, chloroplast, mitochondria, and Golgi apparatus. One of their most distinctive features is photosynthesis, a process that allows plants to produce their own food, setting them apart from other living beings.
Plants are multicellular organisms composed of numerous

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specialised cells, each acting as a functional unit of the Plantae kingdom. Based on their functions, plant cells are broadly classified into three types. Parenchyma cells are the most abundant, making up around 80% of living plant tissues, and are responsible for photosynthesis, storage, and tissue regeneration. Collenchyma cells are living cells with unevenly thickened walls that provide flexibility and support, usually found in stems and leaves.

SubQuestion No : 200

Q.200 **Select the most appropriate ANTONYM of the word 'abundant', as used in the passage.**

Ans
- ✔ A. Scarce
- ✘ B. Functional
- ✘ C. Lignified
- ✘ D. Adequate

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Question Type : **MCQ**
Question ID : **4410091267575**
Option 1 ID : **4410095003006**
Option 2 ID : **4410095003007**
Option 3 ID : **4410095003004**
Option 4 ID : **4410095003005**
Status : **Answered A**
Chosen Option :

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