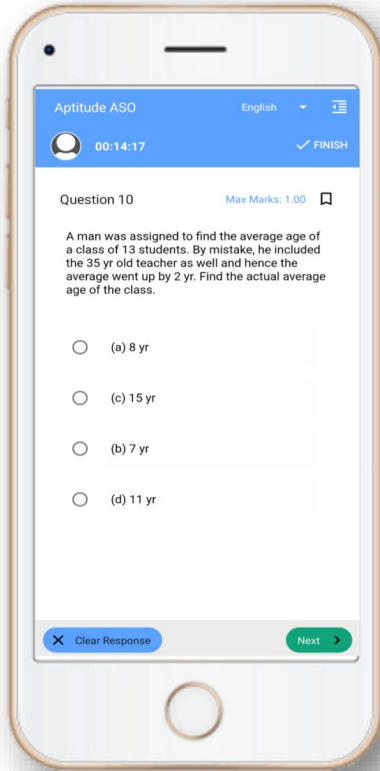


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ODISHA ADARSHA VIDYALAYA SANGATHAN

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| Participant ID | Techofworld.In |
| Participant Name | Techofworld.In |
| Test Center Name | iON Digital Zone iDZ 1 Patia |
| Test Date | 30/01/2021 |
| Test Time | 2:20 PM - 5:40 PM |
| Subject | PGT BIOLOGY |

Section : Language Proficiency Test

Q.1 The given sentence is in the active voice. Choose the option which best expresses the same sentence in passive voice.

We must put an end to this discussion.

- Ans
- 1. This discussion must put an end to.
 - 2. This discussion should be put an end to.
 - 3. This discussion should be ended.
 - 4. This discussion must be put an end to.

Question ID : 6009293026
Status : Not Answered
Chosen Option : --

Q.2 Choose the most appropriate option to fill in the blanks.

No sooner _____ we reach there than it _____ to rain.

- Ans
- 1. do, began
 - 2. had, began
 - 3. did, began
 - 4. does, began

Question ID : 6009293028
Status : Not Answered
Chosen Option : --

Q.3 Choose the INCORRECTLY spelt word from the following options.

- Ans
- 1. Catalogue
 - 2. Corrigendum
 - 3. Ettiquete
 - 4. Saccharin

Question ID : 6009293018
Status : Answered
Chosen Option : 3

Q.4 Choose the most appropriate word from the options to fill in the blank.

With the growing _____ in the country, the Government is also gearing itself to control the rebellion among the people.

- Ans
- 1. unrest
 - 2. peace
 - 3. nonviolence
 - 4. harmony

Q.5 Choose the most suitable meaning of the given idiom/phrase from the following options.

Spill the beans

- Ans
- 1. To keep a promise
 - 2. To keep a secret
 - 3. To gather the beans
 - 4. To tell someone a secret

Question ID : 6009293019
Status : Answered
Chosen Option : 4

Q.6 Choose the most appropriate ANTONYM of the following word:

Clandestine

- Ans
- 1. Covert
 - 2. Veiled
 - 3. Virtuous
 - 4. Open

Question ID : 6009293013
Status : Not Answered
Chosen Option : --

Q.7 The given sentence is in the active voice. Choose the option which best expresses the same sentence in passive voice.

Everyone says he is a great artist.

- Ans
- 1. He is a great artist said by everyone.
 - 2. He is said to be a great artist.
 - 3. He is called a great artist.
 - 4. He is being said to be a great artist.

Question ID : 6009293025
Status : Answered
Chosen Option : 2

Q.8 Choose the one - word substitute for the given group of words.

A speech by an actor at the end of a play

- Ans
- 1. Epilogue
 - 2. Prologue
 - 3. Prelude
 - 4. Preface

Question ID : 6009293022
Status : Answered
Chosen Option : 1

Q.9 The given sentence is in direct speech. Choose the option which best expresses the same sentence in indirect speech.

She said to me, "I am sorry I lost the dress you gave me".

- Ans
- 1. She told me sorry because she had lost the dress.
 - 2. She apologised for losing the dress I had given her.
 - 3. She argued for losing the dress I gave her.
 - 4. She is feeling sorry for losing the dress she gave me.

Question ID : 6009293029
Status : Not Answered
Chosen Option : --

Q.10 Choose the most appropriate synonym of the following word:

Pensive

- Ans 1. Engrossed
 2. Inconsiderate
 3. Clumsy
 4. Superficial

Question ID : 6009293012
Status : Not Answered
Chosen Option : --

Q.11 Choose the most appropriate synonym of the following word:

Reprimand

- Ans 1. Appreciate
 2. Upbraid
 3. Recommend
 4. Tribute

Question ID : 6009293011
Status : Not Answered
Chosen Option : --

Q.12 Choose the most appropriate option that can improve the underline part of the given sentence.

I wish my bus did not arrive so late; then I could have reached home on time.

- Ans 1. do not arrive
 2. has not arrived
 3. does not arrive
 4. had not arrived

Question ID : 6009293024
Status : Not Answered
Chosen Option : --

Q.13 The first and last sentences of a paragraph (S1 and S6) are given along with four jumbled sentences (P, Q, R and S). Choose the option that arranges these four sentences in correct order to form a coherent paragraph.

(S1) Automobile Engineers have developed a variety of technically advanced motor cars.
(P) But with all these facilities it also has disadvantages.
(Q) Pollution and accidents are two hazardous aspects of motor cars.
(R) It has reduced the long distance and made journeys fast and comfortable.
(S) The motor car is one of the useful gifts of modern science.
(S6) Finally all human beings have to take the responsibility to save themselves and the environment.

- Ans 1. PRSQ
 2. QRPS
 3. SRPQ
 4. SPRQ

Question ID : 6009293030
Status : Answered
Chosen Option : 3

Q.14 Choose the correctly spelt word from the following options.

- Ans 1. Survellience
 2. Surveliance
 3. Surveillance
 4. Survelience

Q.15 Choose the correctly spelt word from the following options.

- Ans
- 1. Synchronize
 - 2. Resterurant
 - 3. Renaissance
 - 4. Farenheit

Question ID : 6009293017
Status : Answered
Chosen Option : 3

Q.16 Choose the most suitable meaning of the given idiom/ phrase from the following options.

Paying through our nose

- Ans
- 1. Paying in instalments
 - 2. Paying dearly
 - 3. Buying on credit
 - 4. Reducing our expenses

Question ID : 6009293020
Status : Not Answered
Chosen Option : --

Q.17 Choose the one - word substitute for the given group of words.

A person having great love and understanding for nature, art, etc.

- Ans
- 1. Cynic
 - 2. Critic
 - 3. Connoisseur
 - 4. Artist

Question ID : 6009293021
Status : Answered
Chosen Option : 3

Q.18 Choose the one - word substitute for the given group of words.

Ridiculous use of words

- Ans
- 1. Malapropism
 - 2. Neologism
 - 3. Pun
 - 4. Onomatopoeia

Question ID : 6009293023
Status : Answered
Chosen Option : 1

Q.19 Choose the most appropriate option to fill in the blanks.

One should make _____ best efforts if _____ wishes to achieve success in this competition.

- Ans
- 1. one, one's
 - 2. one's, one
 - 3. his, he
 - 4. one's, one's

Question ID : 6009293027

Q.20 Choose the most appropriate word from the options to fill in the blank.

His excellent memory and inquisitive mind have made him a very ____ man.

- Ans
- 1. altruistic
 - 2. malevolent
 - 3. erudite
 - 4. benevolent

Question ID : 6009293015
Status : Not Answered
Chosen Option : --

Q.21

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293036
Status : Answered
Chosen Option : 1

Q.22

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293050
Status : Answered
Chosen Option : 1

Q.23

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293048
Status : Answered
Chosen Option : 4

Q.24

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293041
Status : Answered
Chosen Option : 2

Q.25

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293033

Q.26

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293039
Status : Not Answered
Chosen Option : --

Q.27

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293046
Status : Not Answered
Chosen Option : --

Q.28

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293031
Status : Not Answered
Chosen Option : --

Q.29

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293042
Status : Not Answered
Chosen Option : --

Q.30

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293045
Status : Answered
Chosen Option : 2

Q.31

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293034

Q.32

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293043
Status : **Not Answered**
Chosen Option : --

Q.33

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293035
Status : **Answered**
Chosen Option : 2

Q.34

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293037
Status : **Answered**
Chosen Option : 2

Q.35

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293044
Status : **Not Answered**
Chosen Option : --

Q.36

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293038
Status : **Not Answered**
Chosen Option : --

Q.37

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Q.38

- Ans 1.
 2.
 3.
 4.

Question ID : 6009293032
Status : Answered
Chosen Option : 1

Q.39

- Ans 1.
 2.
 3.
 4.

Question ID : 6009293049
Status : Answered
Chosen Option : 3

Q.40

- Ans 1.
 2.
 3.
 4.

Question ID : 6009293047
Status : Answered
Chosen Option : 1

Section : Current Affairs & Reasoning

Q.1 Which Indian organisation has won the '2020 UN Global Climate Action Award' for its efforts to tackle climate change amid the ongoing Covid-19 pandemic?

- Ans 1. Global Himalayan Expedition
 2. Indian Environmental Society
 3. Centre for Ecology & Rural Development
 4. Ministry of Environment Forest and Climate Change

Question ID : 6009293072
Status : Answered
Chosen Option : 4

Q.2 Which tennis player announced her retirement in early 2020?

- Ans 1. Ashleigh Barty
 2. Naomi N
 3. Maria Sharapova
 4. Serena Williams

Question ID : 6009293066
Status : Answered
Chosen Option : 3

Q.3 Which bank is NOT a part of three banks being merged into a single entity to form India's second largest bank?

- Ans
- 1. United Bank of India
 - 2. Canara Bank
 - 3. Punjab National Bank
 - 4. Oriental Bank of Commerce

Question ID : 6009293078
Status : Answered
Chosen Option : 2

Q.4 Indian Air Force formally inducted Rafale fighter jets in 2020. Which company has manufactured these jets?

- Ans
- 1. Boeing
 - 2. Lockheed Martin
 - 3. Parker Hannifin
 - 4. Dassault

Question ID : 6009293071
Status : Answered
Chosen Option : 4

Q.5 Akkitham Achuthan Namboothiri, selected for Jnanpith Award 2019, was a famous _____ poet.

- Ans
- 1. Kannada
 - 2. Malayalam
 - 3. Tamil
 - 4. Telugu

Question ID : 6009293080
Status : Answered
Chosen Option : 2

Q.6 As of 2019, Lionel Messi has been selected for the 'Best FIFA Men's Player of the Year Award' for the _____ time.

- Ans
- 1. sixth
 - 2. seventh
 - 3. fourth
 - 4. fifth

Question ID : 6009293077
Status : Not Answered
Chosen Option : --

Q.7 Which country voted for constitutional amendments that let its President to remain in power till 2036?

- Ans
- 1. Turkey
 - 2. Russia
 - 3. North Korea
 - 4. China

Question ID : 6009293063
Status : Answered
Chosen Option : 2

Q.8 As of 2020, who is the coach of Men's senior Indian national football team?

- Ans
- 1. Igor Stimac
 - 2. Amal Dutta
 - 3. Syed Abdul Rahim
 - 4. Savio Medeira

Question ID : 6009293054
Status : Answered
Chosen Option : 3

Q.9 Which financial institution approved a US \$400 million loan to support the Namami Gange Programme of India?

- Ans
- 1. Asian Infrastructure Investment Bank (AIIB)
 - 2. International Monetary Fund (IMF)
 - 3. The World Bank (WB)
 - 4. Asian Development Bank (ADB)

Question ID : 6009293058
Status : Answered
Chosen Option : 3

Q.10 In October 2020, Indian and Canadian researchers found evidence of dairy production in which civilization?

- Ans
- 1. Mesopotamian Civilization
 - 2. Egyptian Civilization
 - 3. Roman Civilization
 - 4. Indus Valley Civilization

Question ID : 6009293053
Status : Not Answered
Chosen Option : --

Q.11 Who was the first woman wrestler to win a gold medal at the Asian Games?

- Ans
- 1. Kamaljeet Sandhu
 - 2. Vinesh Phogat
 - 3. Geeta Phogat
 - 4. Babita Kumari Phogat

Question ID : 6009293055
Status : Answered
Chosen Option : 2

Q.12 Who represented India in the Australia – India - Japan Ministers' meeting on supply chains resilience?

- Ans
- 1. Nirmala Sitharaman
 - 2. Prakash Javadekar
 - 3. Nitin Gadkari
 - 4. Piyush Goyal

Question ID : 6009293068
Status : Answered
Chosen Option : 4

Q.13 How many seats did BJP win in the recently held (2020) Bihar Vidhan Sabha elections?

- Ans
- 1. 74
 - 2. 75
 - 3. 76
 - 4. 73

Question ID : 6009293059

Q.14 Which are the latest emission norms made applicable for L7 (quadricycle) category by the Ministry of Road Transport and Highways, Government of India in 2020?

- Ans
- 1. BS - IV
 - 2. BS - VII
 - 3. BS - VI
 - 4. BS - V

Question ID : 6009293074
Status : Not Answered
Chosen Option : --

Q.15 Which organisation has launched the facility to file NIL GST statements through SMS?

- Ans
- 1. Central Board of Indirect Taxes and Customs
 - 2. GSTN
 - 3. Finance Commission
 - 4. CBDT

Question ID : 6009293051
Status : Not Answered
Chosen Option : --

Q.16 Which Assamese movie was selected as India's official entry to the Oscars 2019 (91st Academy Awards)?

- Ans
- 1. Village Rockstars
 - 2. Kanchanjangha
 - 3. Bornodi Bhotia: Love by the River
 - 4. Kaaneen – A Secret Search

Question ID : 6009293073
Status : Not Answered
Chosen Option : --

Q.17 Who was the first 'National Teachers Award' winner from the Eklavya Model Residential Schools (EMRS) established under Ministry of Tribal Affairs?

- Ans
- 1. Peter Tabichi
 - 2. Kalpana Sharma
 - 3. Sudha Painuli
 - 4. Ashutosh Anand

Question ID : 6009293067
Status : Answered
Chosen Option : 3

Q.18 Who was appointed as chairman of National School of Drama (India) in September 2020?

- Ans
- 1. Ratan Thiyam
 - 2. Paresh Rawal
 - 3. Anupam Kher
 - 4. Prasoon Joshi

Question ID : 6009293061
Status : Not Answered
Chosen Option : --

Q.19 World Trade Organization (WTO) has set up a dispute panel on which country's tariffs on Information and Communication Technology (ICT) goods?

- Ans
- 1. India
 - 2. Japan
 - 3. China
 - 4. USA

Question ID : 6009293064
Status : Answered
Chosen Option : 3

Q.20 What was the theme of the 66th Wildlife Week celebrated in October 2020?

- Ans
- 1. Predators Under Threat
 - 2. Wildlife and Nature
 - 3. RoaR (Roar and Revive)
 - 4. Life Below Water

Question ID : 6009293079
Status : Not Answered
Chosen Option : --

Q.21 India ranked _____ among 195 countries in the 'Freedom in the World 2020' report released in March 2020 by Freedom House.

- Ans
- 1. 70th
 - 2. 121st
 - 3. 83rd
 - 4. 149th

Question ID : 6009293062
Status : Not Answered
Chosen Option : --

Q.22 Which Indian Forest Service officer was selected for the Asia Environmental Enforcement Award given by the United Nations Environment Programme?

- Ans
- 1. Praveen Dhobal
 - 2. Ramesh Pandey
 - 3. Kunal Gosh
 - 4. Suresh Kumar

Question ID : 6009293076
Status : Answered
Chosen Option : 4

Q.23 What is the name of the Indian earth observation satellite intended for applications in agriculture, forestry and disaster management that was launched in November 2020?

- Ans
- 1. EOS - 01
 - 2. RISAT 2BR2
 - 3. Lemur - 2
 - 4. R2 CubeSat

Question ID : 6009293060
Status : Answered
Chosen Option : 1

Q.24 In 2020, the India-Nepal territorial dispute made news headlines. Which of the following disputed areas is NOT in Uttarakhand?

- Ans
- 1. Lipulekh
 - 2. Kalapani
 - 3. Susta
 - 4. Limpiyadhura

Question ID : 6009293065
Status : Answered
Chosen Option : 1

Q.25 Which of the following teams has appeared six times in the finals of IPL as of 2020?

- Ans
- 1. Chennai Super Kings
 - 2. Mumbai Indians
 - 3. Delhi Capitals
 - 4. Sunrisers Hyderabad

Question ID : 6009293056
Status : Answered

Q.26 Who was appointed as India's first Chief of Defence Staff (CDS) in 2019?

- Ans
- 1. General VK Singh
 - 2. General Bipin Rawat
 - 3. General Manoj Mukund Naravane
 - 4. General JJ Singh

Question ID : 6009293075
Status : Answered
Chosen Option : 2

Q.27 Which of the following countries was NOT a part of the 'Phase 1 - Malabar Naval Exercise' held in November 2020?

- Ans
- 1. Japan
 - 2. Australia
 - 3. India
 - 4. France

Question ID : 6009293069
Status : Answered
Chosen Option : 4

Q.28 Joe Biden, who is president elect of the US, belongs to the _____ party.

- Ans
- 1. Libertarian
 - 2. Republican
 - 3. Green
 - 4. Democratic

Question ID : 6009293052
Status : Answered
Chosen Option : 4

Q.29 Which of the following is the capital of Armenia?

- Ans
- 1. Yerevan
 - 2. Baku
 - 3. Karabakh
 - 4. Nagorno

Question ID : 6009293070
Status : Not Answered
Chosen Option : --

Q.30 'SITMEX - 20' was a joint naval exercise held between:

- Ans
- 1. India, Vietnam and Singapore
 - 2. India, Australia and Taiwan
 - 3. India, Thailand and Singapore
 - 4. India, Australia and Hong Kong

Question ID : 6009293057
Status : Answered
Chosen Option : 3

Q.31 A square transparent sheet (X) with a pattern is given. Select the option that represents the pattern that would appear when the transparent sheet is folded at the dotted line.

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Q.32 Identify the figure that can replace the question mark (?) to complete the given pattern (rotation is NOT allowed).

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293104
Status : Answered
Chosen Option : 2

Q.33 Two statements are given, followed by two conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide which of the conclusions follow(s) from the given statements.

Statements:

- I. All goats are calcium.
- II. All calcium are clocks.

Conclusions:

- I. All calcium are goats.
- II. All clocks are calcium.

- Ans
- 1. Neither conclusion I nor II follows
 - 2. Both the conclusions follow
 - 3. Only conclusion II follows
 - 4. Only conclusion I follows

Question ID : 6009293098
Status : Answered
Chosen Option : 1

Q.34 Select the correct mirror image of the given figure from the following options, when the mirror is placed on the line AB.

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293099
Status : Answered
Chosen Option : 3

Q.35 Select the option that can replace the question mark (?) to complete the given letter series.

B, A, D, E, F, I, H, ?

- Ans
- 1. X
 - 2. O
 - 3. P
 - 4. L

Question ID : 6009293083
Status : Answered
Chosen Option : 2

Q.36 Two positions of the same dice are given. Which digit will be on the face opposite to the face having the digit 1?

- Ans
- 1. 2
 - 2. 4
 - 3. 5
 - 4. 3

Q.37 Select the option figure in which the given figure is embedded (rotation is NOT allowed).

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293110
Status : Answered
Chosen Option : 3

Q.38 If in a certain coding language, 'TABLE' is written as 'WGKXT', then how will 'CHAIR' be written in that language?

- Ans
- 1. FNJPB
 - 2. FNJUG
 - 3. FNJUD
 - 4. FILOR

Question ID : 6009293095
Status : Answered
Chosen Option : 2

Q.39 Two statements are given, followed by two conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide which of the conclusions follow(s) from the given statements.

Statements:

- I. All cats are zebras.
- II. Some zebra are apples.

Conclusions:

- I. All cats are apples.
- II. Some apples are zebras.

- Ans
- 1. Neither conclusion I nor II follows
 - 2. Only conclusion I follows
 - 3. Both the conclusions follow
 - 4. Only conclusion II follows

Question ID : 6009293097
Status : Answered
Chosen Option : 4

Q.40 In a condominium, five houses, A, B, C, D and E, in a row belong to a person called John. The houses are situated in such a way that house A is to the right of house B, and house E is to the left of house C and to the right of house A. House B is to the right of house D. Which of the following houses is in the middle?

- Ans
- 1. E
 - 2. C
 - 3. B
 - 4. A

Question ID : 6009293084
Status : Answered
Chosen Option : 4

Q.41 Select a suitable figure from the options that can replace the question mark (?) in the given figure series.

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293109

Q.42 Select the option that is related to the third word in the same way as the second word is related to the first word.

Kitten : Cat :: Tadpole : ?

- Ans
- 1. Larva
 - 2. Colt
 - 3. Fish
 - 4. Frog

Question ID : 6009293089
Status : Answered
Chosen Option : 4

Q.43 The codes for 'FOOT' and 'FIST' in a certain coding language are 'DLKO' and 'DFOO', respectively. How will 'KEEP' be coded using the same language?

- Ans
- 1. HBAK
 - 2. IBBL
 - 3. HCBL
 - 4. IBAK

Question ID : 6009293087
Status : Answered
Chosen Option : 4

Q.44 Select the option that can replace the question mark (?) to complete the given letter series.

Y, G, C, K, G, O, ?

- Ans
- 1. K
 - 2. I
 - 3. L
 - 4. J

Question ID : 6009293082
Status : Answered
Chosen Option : 1

Q.45 Three of the given four word-pairs are similar in a certain manner and one is different. Select the pair that is different from the rest.

- Ans
- 1. Anger : Rage
 - 2. Famous : Renowned
 - 3. Error : Blunder
 - 4. Advance : Retreat

Question ID : 6009293093
Status : Answered
Chosen Option : 3

Q.46 How many triangles are there in the following figure?

- Ans
- 1. 17
 - 2. 16
 - 3. 18
 - 4. 14

Q.47 A square transparent sheet (X) with a pattern is given. Select the option that represents the pattern that would appear when the transparent sheet is folded at the dotted line.

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293108
Status : Answered
Chosen Option : 3

Q.48 If in a certain coding language, 'MILK' is written as '50', then how will 'CURD' be written in that language?

- Ans
- 1. 52
 - 2. 46
 - 3. 51
 - 4. 50

Question ID : 6009293088
Status : Answered
Chosen Option : 3

Q.49 Which of the figures given in the options is the exact water image of the given figure?

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293101
Status : Answered
Chosen Option : 4

Q.50 Ayesha is elder than Alok, but younger than Ajay. Alok is elder than Anjum. Arun is elder than Ayesha, but younger than Ajay. Who is the youngest among them all?

- Ans
- 1. Alok
 - 2. Ajay
 - 3. Anjum
 - 4. Arun

Question ID : 6009293094
Status : Answered
Chosen Option : 3

Q.51 Which of the following options has a similar relationship between the two words of the pair as between the words in the given pair?

Owl : Barn

- Ans
- 1. Horse : Neigh
 - 2. Lion : Cub
 - 3. Hare : Den
 - 4. Monk : Monastery

Question ID : 6009293090
Status : Not Answered
Chosen Option : --

Q.52 Select the correct mirror image of the given figure from the following options, when the mirror is placed on the line MN.

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293100
Status : Answered
Chosen Option : 4

Q.53 Identify the figure that can replace the question mark (?) to complete the given pattern (rotation is NOT allowed).

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293103
Status : Answered
Chosen Option : 3

Q.54 Select the option that can replace the question mark (?) to complete the given letter-pair series.

FH, JL, NP, RT, VX, ?

- Ans
- 1. ZB
 - 2. ZD
 - 3. ZA
 - 4. YA

Question ID : 6009293081
Status : Answered
Chosen Option : 1

Q.55 In a group of 5 students, P is the tallest, whereas Q is the shortest. R is shorter than P but taller than S and T. T is the second shortest student in the group. Who is/are taller than T but shorter than R?

- Ans
- 1. P and Q
 - 2. S
 - 3. Q
 - 4. P

Question ID : 6009293085
Status : Answered
Chosen Option : 2

Q.56 Three of the given four options are similar in a certain manner and one is different. Select the option that is different from the rest.

- Ans
- 1. Brain
 - 2. Nose
 - 3. Neck
 - 4. Ear

Question ID : 6009293091
Status : Answered
Chosen Option : 3

Q.57 Two statements are given, followed by two conclusions. Take the statements to be true even if they are at variance with commonly known facts, and decide which of the conclusions follow(s) from the given statements.

Statements:

- I. Some hairs are eyes.
- II. Some eyes are nose.

Conclusions:

- I. Some eyes are hairs.
- II. Some hairs are nose.

- Ans
- 1. Both the conclusions follow
 - 2. Only conclusion II follows
 - 3. Neither conclusion I nor II follows
 - 4. Only conclusion I follows

Question ID : 6009293096
Status : Answered
Chosen Option : 4

Q.58 Three of the given four options are similar in a certain manner and one is different. Select the option that is different from the rest.

- Ans
- 1. Copper
 - 2. Rubber
 - 3. Plastic
 - 4. Wood

Question ID : 6009293092
Status : Answered
Chosen Option : 1

Q.59 How many triangles are there in the following figure?

- Ans
- 1. 7
 - 2. 4
 - 3. 5
 - 4. 6

Question ID : 6009293105
Status : Answered
Chosen Option : 3

Q.60 If in a certain coding language, 'GENTLE' is written as 'TVMGOV', then how will 'POLITE' be written in that language?

- Ans
- 1. KLOIGV
 - 2. KLORGV
 - 3. ETILOP
 - 4. VGROLK

Question ID : 6009293086
Status : Answered
Chosen Option : 2

Section : Subject Content & Methodology

Q.1 Which of the following is a test cross?

- Ans
- 1. Unknown phenotype x phenotype with known genotype
 - 2. Unknown genotype x known homozygous recessive
 - 3. F1 hybrid x dominant homozygous parent
 - 4. F2 offspring x heterozygous F1 parent

Question ID : 6009293165
Status : Answered
Chosen Option : 3

Q.2 Find the odd pair out.

- Ans
- 1. Star fish and sea urchin
 - 2. Sea cucumber and sea squirt
 - 3. Feather star and brittle star
 - 4. Sea lily and sand dollar

Question ID : 6009293115
Status : Answered
Chosen Option : 2

Q.3 During the cell cycle, _____.

- Ans
- 1. the levels of cyclins remain mostly constant but levels of CDKs oscillate
 - 2. the levels of cyclins and levels of CDKs both oscillate
 - 3. the levels of CDKs remain mostly constant but levels of cyclins oscillate
 - 4. the levels of cyclins and CDKs remain mostly constant but levels of inhibitors of CDKs oscillate

Question ID : 6009293132
Status : Not Answered
Chosen Option : --

Q.4 The respiratory system of *Aurelia aurita* (jellyfish) comprises _____.

- Ans
- 1. no specialised organs
 - 2. tracheids
 - 3. gills
 - 4. lungs

Question ID : 6009293114
Status : Answered
Chosen Option : 3

Q.5 In a human testis, _____.

- Ans
- 1. there are no more than five seminiferous tubules in each lobule
 - 2. each seminiferous tubule is coiled up to form a lobule
 - 3. each lobule is completely separated from the surrounding lobules by septa
 - 4. the septa are attached to the rete testes

Question ID : 6009293126
Status : Not Answered
Chosen Option : --

Q.6 During the light reactions of photosynthesis, protons _____.

- Ans
- 1. move from the cytoplasm into the chloroplast
 - 2. move from the stroma into the thylakoids
 - 3. do not move between compartments of the chloroplast
 - 4. move from the thylakoids into the stroma

Question ID : 6009293144
Status : Not Answered
Chosen Option : --

Q.7 Study the following figure carefully and select the correct option for the given lines with regard to the conditions in a bacterial chemostat.

- Ans
- 1. Line b is the number of cells and line e is the concentration of the substrate.
 - 2. Line e is the number of cells and line b is the amount of the product.
 - 3. Line c is the number of cells and line d is the concentration of the substrate.
 - 4. Line a is the number of cells and line c is the pH of the culture.

Question ID : 6009293185

Q.8 A patient suffering injury to the frontal lobe may be expected to show disturbances in all the following processes, EXCEPT _____.

- Ans
- 1. logical reasoning
 - 2. memory
 - 3. speech
 - 4. vision

Question ID : 6009293150
Status : Answered
Chosen Option : 4

Q.9 A normal plant cell suspended in a hypotonic solution will _____.

- Ans
- 1. fluctuate in size as water enters by endosmosis and exits by collapse of special contractile vacuoles
 - 2. maintain its volume by using water pump channels to expel water entering via endosmosis
 - 3. reach a stable size due to equilibrium between turgor pressure and osmotic pressure
 - 4. expand in volume due to endosmosis and finally burst

Question ID : 6009293138
Status : Answered
Chosen Option : 1

Q.10 A monoecious plant that bears unisexual flowers is:

- Ans
- 1. xenogamous
 - 2. either xenogamous or autogamous
 - 3. either autogamous or geitonogamous
 - 4. either xenogamous or geitonogamous

Question ID : 6009293157
Status : Answered
Chosen Option : 4

Q.11 A vascular bundle can never be _____.

- Ans
- 1. concentric and amphivasal
 - 2. bicollateral and endarch
 - 3. radial as well as open
 - 4. conjoint as well as closed

Question ID : 6009293118
Status : Answered
Chosen Option : 1

Q.12 Which of the following biodiversity hotspots in India does NOT actually include the mainland?

- Ans
- 1. Western Ghats hotspot
 - 2. Indo-Burma hotspot
 - 3. Himalayan hotspot
 - 4. Sundalands hotspot

Q.13 The difference between a child and a young teenager is the number of _____ they have.

- Ans
- 1. molars
 - 2. pre-molars
 - 3. canines
 - 4. incisors

Question ID : 6009293147
Status : Answered
Chosen Option : 2

Q.14 The biggest cause for deforestation in the Amazon region is _____.

- Ans
- 1. logging
 - 2. natural fires
 - 3. cattle ranching
 - 4. agriculture

Question ID : 6009293189
Status : Answered
Chosen Option : 2

Q.15 Chlorophylls can absorb photos because of their _____.

- Ans
- 1. aliphatic phytol chain
 - 2. nitrogenous functional groups
 - 3. tetraordinated Mg ion
 - 4. complex polyenic structure

Question ID : 6009293137
Status : Answered
Chosen Option : 3

Q.16 A group of students decide to build a botanical garden for bryophytes as their dissertation project. In this regard, which of the following statements is true?

- Ans
- 1. This is not a very good idea because bryophytes are really hard to cultivate.
 - 2. This is not a challenging project as there are hardly a dozen members in the phyla under bryophytes.
 - 3. This is a long-term project that will require creation of various habitats like desert, freshwater, marine, and alpine ecosystems.
 - 4. This is a feasible project as many different genera and species can be grown in small containers in an indoor facility.

Question ID : 6009293113
Status : Answered
Chosen Option : 3

Q.17 A _____ is present in cockroach but NOT in earthworm.

- Ans
- 1. pharynx
 - 2. hepatic caeca
 - 3. crop
 - 4. gizzard

Question ID : 6009293127
Status : Answered
Chosen Option : 4

Q.18

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Q.19 Match the following.

- Ans
- 1. II-D and III-A
 - 2. I-A and III-B
 - 3. I-C and IV-A
 - 4. II-B and III-C

Question ID : 6009293135
Status : Not Answered
Chosen Option : --

Q.20 Which of the following statements is true about phytochrome?

- Ans
- 1. Phytochrome kinase is activated by light to phosphorylate phytochrome.
 - 2. Phytochrome is activated by far-red light.
 - 3. Phytochrome can be found in the cytoplasm as well as the nucleus.
 - 4. Phytochrome is a transcription activator.

Question ID : 6009293139
Status : Not Answered
Chosen Option : --

Q.21 What might be the most general and least time-consuming method to create new plant varieties/strains?

- Ans
- 1. Genome engineering with CRISPR-Cas or other suitable systems to introduce desired genes in the genome in one step
 - 2. Incorporation of bacterial or other xeno-genes using viral/plasmid vectors to create valuable transgenic plants
 - 3. Inducing diploidy (by treatment with suitable reagents) in gametes to instantly produce a large collection of pure lines
 - 4. Somatic hybridisation of cells from different species, followed by tissue culture for micropropagation of stable hybrids

Question ID : 6009293177
Status : Not Answered
Chosen Option : --

Q.22 When amniocentesis was first developed, what was the procedure for testing?

- Ans
- 1. The biochemical characters of the amniotic fluid were analysed for presence of markers of trisomy of chromosome 21.
 - 2. Biopsy of placental/villus tissue of foetal origin was subjected to standard histopathologic tests for Down's syndrome.
 - 3. Foetal cells that shed into the amniotic fluid were cultured and karyotyped to record chromosomal composition.
 - 4. Foetal DNA that was present in the amniotic fluid was amplified by PCR and sequenced to detect various deadly mutations.

Question ID : 6009293164
Status : Not Answered
Chosen Option : --

Q.23 Glyphosate is a/an _____.

- Ans
- 1. natural antibiotic
 - 2. insect neurotoxin
 - 3. synthetic auxin
 - 4. enzyme inhibitor

Question ID : 6009293142
Status : Not Answered

Q.24 Muscle fatigue is mainly due to the build-up of _____.

- Ans
- 1. carbon dioxide
 - 2. lactic acid
 - 3. nitric oxide (NO)
 - 4. neurotransmitters

Question ID : 6009293149
Status : Answered
Chosen Option : 2

Q.25 Lane 1 shows the DNA fingerprinting profile of a child. Who are the likely parents?

- Ans
- 1. Lane 3 and Lane 4
 - 2. Lane 5 and Lane 6
 - 3. Lane 4 and Lane 5
 - 4. Lane 2 and Lane 3

Question ID : 6009293170
Status : Not Answered
Chosen Option : --

Q.26 The radius and ulna bones are connected via _____.

- Ans
- 1. synovial joints
 - 2. muscles (no joints)
 - 3. cartilaginous joints
 - 4. fibrous joints

Question ID : 6009293146
Status : Answered
Chosen Option : 1

Q.27 The substance shown in the following figure is _____.

- Ans
- 1. a gibberellin
 - 2. a cytokinin
 - 3. a derivative of abscisic acid
 - 4. an auxin

Question ID : 6009293143
Status : Not Answered
Chosen Option : --

Q.28 In a standard dihybrid cross, the F₂ genotypic ratios are 1 : 2 : 1 : 2 : 4 : 2 : 1 : 2 : 1 and phenotypic ratios are 9 : 3 : 3 : 1. In a dihybrid cross where both characters show co-dominance but no epistatic interactions, the F₂ generation will show:

- Ans
- 1. neither genotypic nor phenotypic ratios as expected
 - 2. genotypic ratios as expected, but phenotypic ratios will be different
 - 3. both genotypic and phenotypic ratios as expected, as there is no epistatic interaction between the two loci
 - 4. phenotypic ratios as expected, but genotypic ratios will be different

Question ID : 6009293160

Q.29 An epimerase can convert _____.

- Ans
- 1. glucose to galactose
 - 2. chair form to boat form
 - 3. D-glucose to L-glucose
 - 4. aldo-sugar to keto-sugar

Question ID : 6009293130
Status : Not Answered
Chosen Option : --

Q.30 To determine the molecular weight of a protein molecule by electrophoresis, one must do all the following, EXCEPT:

- Ans
- 1. disrupt secondary structure
 - 2. destroy quaternary structure
 - 3. remove trans-membrane domains, if any
 - 4. reduce cystine residues

Question ID : 6009293179
Status : Not Answered
Chosen Option : --

Q.31 Which of the following statements is true about smooth muscle cells?

- Ans
- 1. The cells have myosin but lack actin.
 - 2. The cells have actin but lack myosin.
 - 3. The cells lack troponin.
 - 4. The cells are multinucleated; each fibre is a syncytium.

Question ID : 6009293121
Status : Answered
Chosen Option : 3

Q.32 Find the odd one out.

- Ans
- 1. C-reactive protein
 - 2. Chemokines
 - 3. Antibodies
 - 4. Interferons

Question ID : 6009293173
Status : Not Answered
Chosen Option : --

Q.33 Which of the following statements is true about phagemid vectors?

- Ans
- 1. They have a specially designed MCS sequence for alpha-complementation.
 - 2. They require the assistance of a defective phage for packaging and release.
 - 3. They can shuttle between two different types of hosts.
 - 4. They are used to clone segments as large as the phage genome.

Question ID : 6009293181
Status : Not Answered
Chosen Option : --

Q.34 A juvenile earthworm has 120 segments. How many setae will it have?

- Ans
- 1. $118 \times 8 = 944$
 - 2. $120 \times 4 = 480$
 - 3. $115 \times 8 = 920$
 - 4. $115 \times 4 = 460$

Question ID : 6009293123

Q.35 Which of the following statements is FALSE about trichomoniasis?

- Ans
- 1. Women can infect men and women; men can only infect women.
 - 2. Women are affected; men act as unaffected carriers.
 - 3. It is caused by a protozoan and can be treated with antibiotics.
 - 4. This infection can be asymptomatic.

Question ID : 6009293163
Status : Not Answered
Chosen Option : --

Q.36 To convert one molecule of elemental nitrogen to ammonia, most microorganisms require _____.

- Ans
- 1. 4 electrons and 12 ATP molecules
 - 2. 8 electrons and 12 ATP molecules
 - 3. 4 electrons and 16 ATP molecules
 - 4. 8 electrons and 16 ATP molecules

Question ID : 6009293141
Status : Not Answered
Chosen Option : --

Q.37 In a dicot seed, the tigellum can be found _____.

- Ans
- 1. separating the endosperm from the scutellum
 - 2. between the cotyledons
 - 3. covering the cotyledons
 - 4. lining the aleurone tissue

Question ID : 6009293124
Status : Not Answered
Chosen Option : --

Q.38 If homologous chromosomes do not segregate at Anaphase-I during meiosis, what will happen?

- Ans
- 1. Only two daughter cells will have a normal karyotype.
 - 2. They will segregate in Anaphase-II.
 - 3. All four daughter cells will have an abnormal karyotype.
 - 4. One of the homologous chromosomes will be lost.

Question ID : 6009293128
Status : Not Answered
Chosen Option : --

Q.39 Which of the lines in the given figure represents the general response of plants to the concentration of ammonia in the soil?

- Ans
- 1. Line c
 - 2. Line d
 - 3. Line a
 - 4. Line b

Question ID : 6009293140
Status : Not Answered
Chosen Option : --

Q.40 Which of the following statements is FALSE about Nostoc?

- Ans
- 1. It is classified under Monera because it is a bacterium.
 - 2. It is no longer classified under Algae because it is unicellular.
 - 3. It is not classified under Protista even though it is unicellular.
 - 4. It was previously classified under Algae because it is photosynthetic.

Q.41 What was the role of Celera in the HGP?

- Ans
- 1. It was created to study ethical, legal, and social aspects of HGP.
 - 2. It was a competitor of the Consortium.
 - 3. It was a partner of the Consortium.
 - 4. It was the first group to publish the human genome.

Question ID : 6009293168
Status : Not Answered
Chosen Option : --

Q.42 The specific concern about edible vaccines is _____.

- Ans
- 1. ensuring the antigens retain native configuration in the 'host' plant or microbial cell
 - 2. calibrating the appropriate dose of the edible material to be given to the patient
 - 3. preventing the release of 'vaccine plants' into commercial food chain
 - 4. storage and transfer of the edible material containing the antigen

Question ID : 6009293183
Status : Not Answered
Chosen Option : --

Q.43 A major component of the basement membrane of epithelium is _____.

- Ans
- 1. actin and myosin
 - 2. keratin
 - 3. collagen
 - 4. lamin

Question ID : 6009293120
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.44 Why is there no vaccine yet available to prevent infection by HIV?

- Ans
- 1. There are no naturally available live attenuated strains of HIV, like for the polio virus.
 - 2. The proteins of HIV are not antigenic in nature, so subunit vaccines cannot be developed.
 - 3. There are numerous variants of HIV proteins but none elicits neutralising antibodies.
 - 4. HIV causes latent infections (hidden deep in tissues) where antibodies cannot reach. TB has a similar problem.

Question ID : 6009293176
Status : Not Answered
Chosen Option : --

Q.45 Study the following figure carefully and select the correct option with respect to the figure.

- Ans
- 1. Line A shows enzyme activity in the absence of an inhibitor and line B shows enzyme activity in the presence of a competitive inhibitor.
 - 2. Line A shows enzyme activity in the absence of an inhibitor and line B shows enzyme activity in presence of a non-competitive inhibitor.
 - 3. Line B shows enzyme activity in the absence of an inhibitor and line A shows enzyme activity in the presence of a competitive inhibitor.
 - 4. Line B shows enzyme activity in absence of an inhibitor and line A shows enzyme activity in presence of a non-competitive inhibitor.

Q.46 Can glycolysis and gluconeogenesis occur simultaneously in a cell?

- Ans 1. No, the same enzymes are involved in the two pathways, so only one is active at any given moment.
2. Yes, each pathway has its own enzymes and metabolites so there is no competition between the two.
3. Yes, both can be active in different locations of a cell depending on the metabolic need at the location.
4. No, they are regulated by common metabolites that inhibit one pathway and activate the other.

Question ID : 6009293145

Status : Not Answered

Chosen Option : --

Q.47 The following pedigree shows the inheritance of an autosomal recessive trait (affected individuals are shaded).

The probability that the individual marked with a '?' will be affected is _____.

- Ans 1.
- 2.
- 3.
- 4.

Question ID : 6009293171

Status : Not Answered

Chosen Option : --

Q.48 In the following figure, the lightly shaded area under curve A represents the world population supported without synthetic nitrogen fertilisers, and the darkly shaded area under curve B represents the world population supported with synthetic nitrogen fertilisers. The curves are additive (which means over 6 billion people are supported in total after the year 2000).

Which of the following statements are supported by this graph?

- Ans 1. Around 50% of the farmers in the world today use biofertilisers.
2. The manufacture of synthetic nitrogen fertilisers has supported a growing number of people in the world since the 1950s.
3. Around half the population of the world today does not eat food grown with the help of synthetic nitrogen fertilisers.
4. We have to double our capacity to produce and use biofertilisers to completely eliminate or replace the chemical fertilisers.

Question ID : 6009293178

Status : Not Answered

Chosen Option : --

Q.49 Find the odd one out.

- Ans 1. Alanine
2. Leucine
3. Lysine
4. Valine

Q.50 Which of the following options depicts the shape of a typical IUD contraceptive?

- Ans
- 1. Item c (umbrella-shaped)
 - 2. Item a
 - 3. Item b
 - 4. Item d

Question ID : 6009293156
Status : Answered
Chosen Option : 3

Q.51 A student took 2 mL of fresh human blood and centrifuged it at a low speed for a few minutes. Where will the WBCs be located?

- Ans
- 1. WBCs and RBCs, along with platelets, will be interspersed in the cell pellet.
 - 2. WBCs are less dense than RBCs, so they will be at the interface of plasma and cell pellet.
 - 3. WBCs are larger than RBCs, so they will be at the bottom of the tube.
 - 4. WBCs will be suspended in the liquid phase; they settle in the cell pellet only upon high-speed centrifugation.

Question ID : 6009293155
Status : Not Answered
Chosen Option : --

Q.52 A normal human body responds to hypoxia by all of the following, EXCEPT _____.

- Ans
- 1. pulmonary vasoconstriction
 - 2. lowered heartbeat rate
 - 3. higher rate of metabolism
 - 4. vasodilation of capillaries

Question ID : 6009293153
Status : Not Answered
Chosen Option : --

Q.53 One of the candidates for a Covid-19 vaccine that was undergoing clinical trials in the end of 2020 was developed by a company called Moderna Therapeutics. This preparation comprised:

- Ans
- 1. a viral vector carrying a DNA sequence
 - 2. chemically inactivated viral particles
 - 3. a liposome encapsulating a viral mRNA
 - 4. a recombinant glycoprotein subunit

Question ID : 6009293180
Status : Not Answered
Chosen Option : --

Q.54 The yeasts with common names as budding yeast and fission yeast are:

- Ans
- 1. different species of the same genus
 - 2. different genera in the same order
 - 3. asexual and sexual phases of the same organism
 - 4. different genera in different orders

Q.55 The universal phylogenetic tree for bacterial classification is based on _____.

- Ans
- 1. biochemical and serological reactions
 - 2. sequences of selected genes
 - 3. morphology and staining properties
 - 4. growth in selective media

Question ID : 6009293112
Status : Not Answered
Chosen Option : --

Q.56 Spongy mesophyll tissue can be found _____.

- Ans
- 1. only in pneumatophore roots of halophytes
 - 2. only in succulent leaves of xerophytes
 - 3. only in submerged leaves of hydrophytes
 - 4. in any dorsiventral leaf

Question ID : 6009293119
Status : Not Answered
Chosen Option : --

Q.57 An IgG molecule has _____ intramolecular disulphide bonds.

- Ans
- 1. 3
 - 2. 4
 - 3. 16
 - 4. 12

Question ID : 6009293172
Status : Not Answered
Chosen Option : --

Q.58 Identify the FALSE statement from the following.

- Ans
- 1. Caspase-9 activates Caspase-3; Caspase-3 activates Caspase-6.
 - 2. Caspase-6 activates Caspase-10; Caspase-9 activates Caspase-7.
 - 3. Caspase-3 activates Caspase-2; Caspase-6 activates Caspase-8.
 - 4. Caspase-3 activates Caspase-6; Caspase-7 activates Caspase-2.

Question ID : 6009293133
Status : Not Answered
Chosen Option : --

Q.59 In September/October 2020, scientists reported the discovery of new organs in the human body in the form of _____.

- Ans
- 1. vestigial sinus passages
 - 2. salivary glands
 - 3. endocrine glands
 - 4. ganglionic nodes

Question ID : 6009293151
Status : Not Answered
Chosen Option : --

Q.60 A mature angiospermic ovule contains _____.

- Ans
- 1. 3 antipodal cells surrounding the micropyle
 - 2. filiform apparatus near the micropylar end
 - 3. 2 synergid associated with 2 free nuclei
 - 4. 1 egg nucleus resting on 2 synergid cells

Question ID : 6009293159

Q.61 GFR (Glomerular Filtration Rate) is assessed by _____.

- Ans
- 1. clearance of inulin from the blood
 - 2. calibrating change in density of urine
 - 3. using an ultrasonic renal probe
 - 4. measuring hourly urine output

Question ID : 6009293152
Status : Answered
Chosen Option : 2

Q.62 Which of the following statements is FALSE about vitrification?

- Ans
- 1. Vitrification minimises the risk of cryoinjury by ice crystals.
 - 2. A controlled steady cooling rate (~1 degree/min) gives best results.
 - 3. The aqueous phase of vitrified cells is in a non-crystalline glassy state.
 - 4. Cells are treated with CPA before cooling.

Question ID : 6009293182
Status : Not Answered
Chosen Option : --

Q.63 How does 'Antabuse' (disulfiram), the first medicine approved for the treatment of alcohol abuse and alcohol dependence, work?

- Ans
- 1. It repairs the fatty liver damage caused by chronic alcohol abuse.
 - 2. It metabolises ethanol rapidly and blocks the 'high' produced by liquor.
 - 3. It combats the pain and distress produced upon withdrawal from alcohol.
 - 4. It induces nausea and vomiting if alcohol is consumed.

Question ID : 6009293174
Status : Not Answered
Chosen Option : --

Q.64 Why do some plants such as pine trees remain evergreen (not shed leaves in cold season)?

- Ans
- 1. The plant produces cryoprotectant chemicals that preserve the leaves even at low temperatures.
 - 2. The leaves are actually modified stems and hence they remain green.
 - 3. The plants do not produce abscisic acid and other plant hormones responsible for defoliation.
 - 4. They are not annuals, so the leaves remain on the plant for years.

Question ID : 6009293117
Status : Not Answered
Chosen Option : --

Q.65 SCID can be a result of:

- Ans
- 1. defects in RAG enzymes
 - 2. lack or deficiency of granulocytes
 - 3. absence of or injury to the thymus at adult age
 - 4. aberrant recombination in Ig H-chain loci

Question ID : 6009293175
Status : Not Answered
Chosen Option : --

Q.66 Lichens are used as bioindicators, especially for:

- Ans
- 1. global warming (increased temperature)
 - 2. arsenic content of air (from coal burning)
 - 3. sulphur dioxide in the air
 - 4. suspended soot particles in the air

Question ID : 6009293186

Q.67 A mutant strain of *E. coli* shows constitutive expression of beta-galactosidase. The mutation is likely to be located in the:

- Ans
- 1. binding domain of LacI protein
 - 2. promoter region of lac operon
 - 3. regulatory domain of lac permease
 - 4. catalytic domain on lacZ enzyme

Question ID : 6009293166
Status : Not Answered
Chosen Option : --

Q.68 An organ-on-a-chip is a/an:

- Ans
- 1. system of specific organ tissues immobilised on a solid matrix for use in biochemical assays and toxicity testing
 - 2. DNA microarray (or DNA chip) that contains all the sequences of genes active in the particular organ
 - 3. microfluidic culture chamber to grow and maintain organ-specific tissues under physiological conditions
 - 4. in vitro culture system to maintain and grow small thin slices of organs like lungs and hearts in culture

Question ID : 6009293184
Status : Not Answered
Chosen Option : --

Q.69 How does the medication used for termination of pregnancy work?

- Ans
- 1. Mifeprestone expels the foetus after Mifoprestol degrades the uterine wall.
 - 2. Mifeprestone detaches the placenta and Mifoprestol expels the foetus.
 - 3. Mifeprestone blocks progesterone and Mifoprestol detaches the placenta.
 - 4. Mifeprestone induces labour while Mifoprestol blocks progesterone.

Question ID : 6009293162
Status : Not Answered
Chosen Option : --

Q.70 The skin of amphibians is characterised by ____.

- Ans
- 1. lack of keratinisation of the epidermal cells
 - 2. epidermis comprising only one layer of cells
 - 3. dermis comprising only one layer of cells
 - 4. epidermis and dermis each comprising only one layer of cells

Question ID : 6009293122
Status : Not Answered
Chosen Option : --

Q.71 Which of the following is associated with the molecular clock?

- Ans
- 1. Structure of conserved proteins
 - 2. Number of neutral mutations
 - 3. Levels of melatonin
 - 4. Phytochrome and other photoreceptors

Q.72 Which of the following pyramids represents a temperate forest (in summer) in terms of the numbers of trees, herbivorous insects, predatory insects and birds, respectively (pyramids not drawn to scale)?

- Ans
- 1. Pyramid a
 - 2. Pyramid d
 - 3. Pyramid c
 - 4. Pyramid b

Question ID : 6009293190
Status : Not Answered
Chosen Option : --

Q.73 In normal human adult males, LH is secreted _____.

- Ans
- 1. in a pulse every 2 hours
 - 2. once every 12 hours
 - 3. at high levels during the night and low levels during the day
 - 4. in a pulse every 4 hours

Question ID : 6009293160
Status : Not Answered
Chosen Option : --

Q.74 From the time of fertilisation to the time of implantation, the human embryo _____.

- Ans
- 1. undergoes many cell divisions and grows in size to appear hook shaped
 - 2. undergoes 3 or 4 cells divisions but does not grow in size
 - 3. undergoes 3 or 4 cell divisions and doubles in size
 - 4. undergoes many cell divisions but remains more or less of the same size

Question ID : 6009293158
Status : Not Answered
Chosen Option : --

Q.75 In _____, the pedicels converge on a single point of attachment to the peduncle.

- Ans
- 1. a corymb
 - 2. a spike
 - 3. the disc florets
 - 4. an umbel

Question ID : 6009293125
Status : Not Answered
Chosen Option : --

Q.76 The 'pin' and 'thrum' flowers in *Primula* _____, respectively.

- Ans
- 1. correspond to the chasmogamous and cleistogamous flowers
 - 2. are phenotypes of homozygous recessive and heterozygous flowers
 - 3. are terms to describe female and male flowers
 - 4. describe the wild type and mutant (sterile) flowers

Question ID : 6009293161
Status : Not Answered
Chosen Option : --

Q.77 Identify the FALSE statement from the following.

- Ans
- 1. Most sensory neurons in higher animals do not connect with the brain.
 - 2. In a reflex arc, the sensory neuron communicates directly with the motor neuron via a synapse.
 - 3. The dorsal and ventral roots of a reflex arc are parts of a single spinal nerve.
 - 4. Reflex arcs can be components of the somatic or the autonomic nervous system.

Question ID : 6009293154
Status : Not Answered
Chosen Option : --

Q.78 The nitrogenous base in nucleic acids that have amino group side chains are _____.

- Ans
- 1. all pyrimidines
 - 2. one pyrimidine and two purines
 - 3. all purines
 - 4. one purine and two pyrimidines

Question ID : 6009293129
Status : Not Answered
Chosen Option : --

Q.79 Select the correct option for the given sulphur cycle.

- Ans
- 1. Step 2 is not possible by enzymatic action.
 - 2. All 5 steps can be carried out by living beings.
 - 3. Bacteria can carry out only steps 1, 2 and 3.
 - 4. Humans can carry out only steps 4 and 5.

Question ID : 6009293188
Status : Not Answered
Chosen Option : --

Q.80 The best treatment for gastric ulcers is _____.

- Ans
- 1. surgical removal
 - 2. alkaline or neutral diet
 - 3. antibiotic therapy
 - 4. anti-inflammatory drugs

Question ID : 6009293148
Status : Answered
Chosen Option : 3

Q.81

- Ans
- 1. a - iv, b - ii, c - v, d - iii
 - 2. a - ii, b - iii, c - i, d - iv
 - 3. a - v, b - iv, c - iii, d - i
 - 4. a - iv, b - iii, c - i, d - v

Question ID : 6009293208
Status : Answered
Chosen Option : 4

Q.82 The activities of speaking and performing experiments are kinds of _____.

- Ans
- 1. higher order thinking
 - 2. procedural knowledge
 - 3. research skills
 - 4. factual knowledge

Question ID : 6009293209
Status : Answered
Chosen Option : 3

Q.83 Which of the following leads to inculcation of learning to learn the aspects of education?

- Ans
- 1. Aesthetic sense
 - 2. Creativity
 - 3. Curiosity
 - 4. Cooperative attitude

Question ID : 6009293192

Q.84 Name the collaborative learning approach in which the teacher facilitates the formation of a group according to the students' ability.

- Ans
- 1. Inquiry group
 - 2. Brainstorming
 - 3. Task group
 - 4. Tutorial group

Question ID : 6009293195
Status : Answered
Chosen Option : 4

Q.85 An interactive satellite-based distance education system for the country utilising audiovisual medium is _____.

- Ans
- 1. EDUSAT
 - 2. Community Radio (FM)
 - 3. CLASS
 - 4. DTH

Question ID : 6009293210
Status : Answered
Chosen Option : 1

Q.86 Which of the following is NOT a common error in a demonstration lesson?

- Ans
- 1. Sufficient time for recording data may not have been given to the pupils
 - 2. The teacher emphasises the generalisation
 - 3. The minor facts may be given as much importance as the major facts
 - 4. The teacher may fail to show how the demonstration fits into the problem in hand

Question ID : 6009293194
Status : Answered
Chosen Option : 2

Q.87 A learner reads a text on mammals and views a video on the life of mammals in different locales. Choose from the following processes where the learner relates the analysis to the text.

- Ans
- 1. Collaboration
 - 2. Observation
 - 3. Contextualisation
 - 4. Interpretation

Question ID : 6009293199
Status : Answered
Chosen Option : 3

Q.88

- Ans
- 1. a - iii, b - v, c - i, d - ii
 - 2. a - v, b - iv, c - iii, d - ii
 - 3. a - ii, b - iii, c - i, d - iv
 - 4. a - iv, b - v, c - i, d - ii

Q.89 Which of the following learner centred teaching learning strategy is NOT related with ROLE Psycho-Pedagogical Integration Model?

- Ans
- 1. The teacher finds and selects learning resources
 - 2. The learner works on selected learning resources
 - 3. The learner reflects and reacts on strategies, achievements and usefulness
 - 4. Information of the learner is defined or revised

Question ID : 6009293201
Status : Answered
Chosen Option : 1

Q.90 Choose the correct order for steps in project method.

- Ans
- 1. Choosing and Proposing, Evaluating, Planning, Providing a situation, Recording, Executing
 - 2. Evaluating, Planning, Providing a situation, Recording, Choosing and Proposing, Executing
 - 3. Providing a situation, Choosing and Proposing, Planning, Executing, Evaluating, Recording
 - 4. Providing a situation, Recording, Choosing and Proposing, Planning, Executing, Evaluating

Question ID : 6009293196
Status : Answered
Chosen Option : 3

Q.91 Which branch of science explores the chemical processes within and related to living organisms?

- Ans
- 1. Plant biochemistry
 - 2. Biochemistry
 - 3. Chemical ecology
 - 4. Molecular biology

Question ID : 6009293191
Status : Answered
Chosen Option : 2

Q.92

- Ans
- 1.
 - 2.
 - 3.
 - 4.

Question ID : 6009293204
Status : Answered
Chosen Option : 4

Q.93

- Ans
- 1. a - iii, b - ii, c - iv, d - i
 - 2. a - ii, b - iii, c - i, d - iv
 - 3. a - iv, b - iii, c - ii, d - i
 - 4. a - iv, b - ii, c - iii, d - i

Question ID : 6009293203
Status : Answered
Chosen Option : 3

Q.94

- Ans
- 1. a - ii, b - iii, c - i, d - iv
 - 2. a - ii, b - iv, c - i, d - iii
 - 3. a - iii, b - ii, c - i, d - iv
 - 4. a - iv, b - iii, c - i, d - ii

Question ID : 6009293207
Status : Answered
Chosen Option : 2

Q.95 Which of the following is the correct order of the 5E Instructional Model?

- Ans
- 1. Engage, Explore, Explain, Elaborate and Evaluate
 - 2. Explore, Explain, Engage, Evaluate and Elaborate
 - 3. Explore, Evaluate, Explain, Engage and Elaborate
 - 4. Engage, Explain, Explore, Elaborate and Evaluate

Question ID : 6009293200
Status : Answered
Chosen Option : 1

Q.96 Choose the correct options for learning resources including human resources as well as physical resources.

- I. Child's ideas as learning resources
- II. Community members as learning resources
- III. Resources from immediate surroundings

- Ans
- 1. I, II and III
 - 2. Only I and III
 - 3. Only II and III
 - 4. Only I and II

Question ID : 6009293202
Status : Answered
Chosen Option : 2

Q.97 Ms. Sanjana administered a unit test on 'The Fundamental Unit of Life'. While going through the assessment sheets of learners, she found that few learners had made some common mistakes while drawing diagrams and few were confused between a plant cell and an animal cell. What can she do to overcome the difficulties of learners?

- Ans
- 1. Re-teach the concept
 - 2. Plan certain activities and exercises to give hands-on practice to learners on identified concepts
 - 3. Give some more exercises to learners to practice
 - 4. Give the worksheet on diagram as a part of homework assignment

Question ID : 6009293206
Status : Answered
Chosen Option : 2

Q.98

- Ans
- 1. a - iv, b - i, c - iii, d - ii
 - 2. a - v, b - i, c - iii, d - ii
 - 3. a - iii, b - ii, c - iv, d - i
 - 4. a - iv, b - ii, c - v, d - i

Question ID : 6009293198
Status : Answered
Chosen Option : 2

Q.99 Which of the following is NOT a tool for formative assessment?

- Ans
- 1. Anecdotal records
 - 2. Observation schedule
 - 3. Group discussions
 - 4. Checklist

Question ID : 6009293205
Status : Answered
Chosen Option : 3

Q.100 In which phase of concept mapping does the teacher use prompts and cues to guide the learners to arrange the concepts hierarchically with the broader/general concepts at the top and the less inclusive concept at the bottom?

- Ans
- 1. Phase II: Propositional phase
 - 2. Phase IV: Closure
 - 3. Phase III: Application
 - 4. Phase I: Presentation of abstraction

Question ID : 6009293197
Status : Answered
Chosen Option : 3