

PAZHASSIRAJA COLLEGE

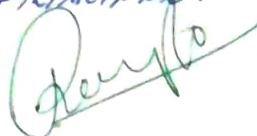
DEPARTMENT OF BIOCHEMISTRY

NET COACHING RECORDS



HOD

Dept. of Biochemistry
Pazhassiraja College
Pulpally, Wayanad

PRINCIPAL


NET COACHING REPORT

Sl.No	Faculty name	Batch	Date	No. of students attended
1.	Ms.Aiswarya Balakrishnan Mr.RahulRaghavan	2013-2015	3 rd Aug 2014 - 2 nd Nov 2014 15 th Jan 2015 - 3 rd April 2015	7
2.	Dr.Jomet K Sebastian Ms.Aiswarya Muraleedharan	2014-2016	15 th Jan 2015 - 3 rd April 2015 22 nd Aug 2015 - 10 th Nov 2015 8 th Jan 2016 - 1 st April 2016	6
3.	Geethu Daniel Dr.Jomet K Sebastian	2015-2017	22 nd Aug 2015 - 10 th Nov 2015 15 th July 2016 - 30 th Oct 2016 10 th Jan 2017 - 28 th March 2017	4
4.	Dr.Jomet K Sebastian Ms.Suganya	2016-2018	15 th July 2016 - 30 th Oct 2016 3 rd Aug 2017 - 2 nd Nov 2017 5 th Jan 2018 - 1 st April 2018	7
5.	Dr.Jomet K Sebastian Ms.Subhasree Dr.Geethu Daniel	2017-2019	3 rd Aug 2017 - 2 nd Nov 2017 30 th June 2018 - 2 nd Nov 2018 11 th Jan 2019 - 30 th Mar 2019	9
6.	Dr.Jenson Jacob Dr.Jomet K Sebastian	2018-2020	3 rd Aug 2018 - 2 nd Nov 2018 3 rd Aug 2019 - 28 th Oct 2019 15 th Jan 2020 - 3 rd April 2020	11
7.	Dr.Jomet K Sebastian Dr. Jenson Jacob	2019-2021	3 rd Aug 2019 - 28 th Oct 2019 14 th Aug 2020 - 2 nd Nov 2020 15 th Jan 2021 - 3 rd April 2021	11
8.	Dr.Jomet K Sebastian Dr. Jenson Jacob	2020-2022	3 rd Aug 2020 - 30 th Oct 2020 4 th June 2021 - 2 nd Nov 2020	12

DEPARTMENT OF BIOCHEMISTRY

CSIR-UGC NET COACHING

Summary Report 2020-2021

During the Academic Year 2020-2021, Post Graduate Department of Biochemistry conducted Online UGC NET coaching classes for our PG students during 9 am to 10 am & 3.30 pm to 4.30 pm (before & after the official working hours of the college). Faculties of the concerned department handled the classes.


Fee for Courses: There is no Course Fee.

Participants:

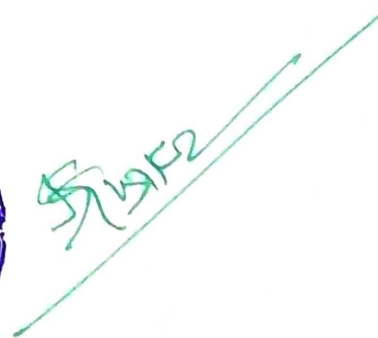
1. Aiswarya Krishna R.S
2. Reshma Raj J.R
3. Adithya Babu
4. Aparna M
5. Babyvarnana O.K

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CSIR- NET COACHING 2019-2020

The department of Biochemistry of the college offer long term training for National Eligibility Test (NET) aspirants. This time we offer three different courses. Course for Paper I General and Course for Paper II in biochemistry subjects.
Subjects offered for December 2019 Examination:

- **Life science**

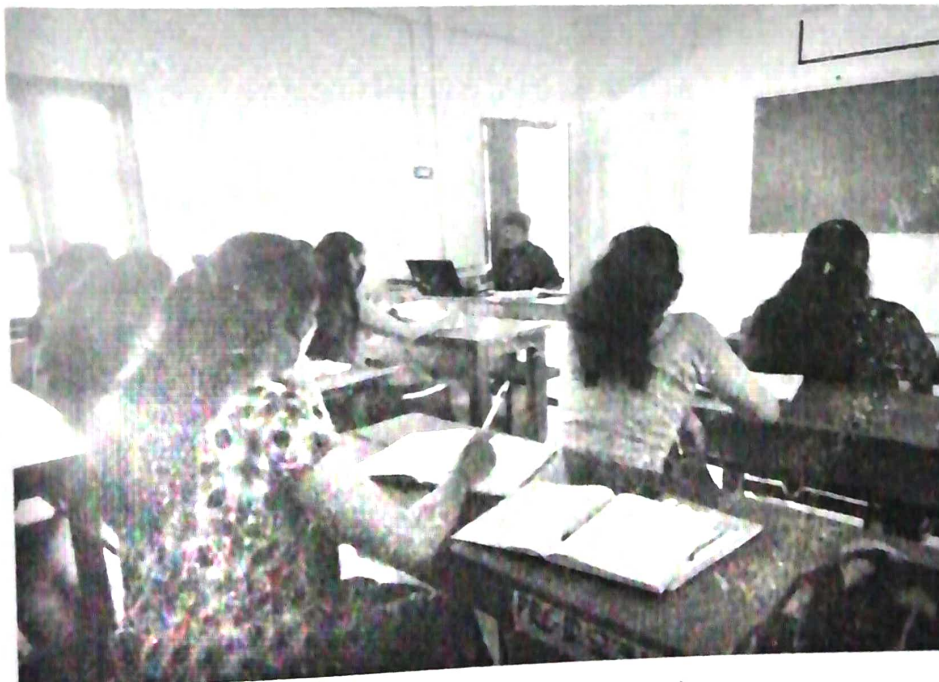
In order to be a part of the programme, candidates have to register in the department. The subject teachers provides materials, notes, model questions, answers, virtual class rooms , interactions and discussions .To top it all, there will be examinations and evaluation.

Fee for Courses: There is no Course Fee.

Participants:

1. Ardra A.C
2. Drishya Dinesh
3. Harsha Madhu K.P
4. Harsha H
5. Drishya G

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Pazhassiraja College
Pulpally, Wayanad

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PAZHASSI RAJA COLLEGE
PULPALLY 673 678

CSIR- NET COACHING 2018-2019

The department of Biochemistry of the college offer long term training for National Eligibility Test (NET) aspirants. This time we offer three different courses, Course for Paper I General and Course for Paper II in biochemistry subjects.
Subjects offered for December 2019 Examination:

- **Life science**

In order to be a part of the programme, candidates have to register in the department. The subject teachers provides materials, notes, model questions, answers, virtual class rooms , interactions and discussions .To top it all, there will be examinations and evaluation.

Fee for Courses: There is no Course Fee.



Participants:

1. Hima Haridas
2. Shifa Kallingal
3. Archana A.S
4. Anuprem Raj
5. Nayana K.N.P

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CSIR- NET COACHING 2017-2018


Second year Biochemistry students were selected for NET coaching classes. Seven students were attended this coaching class. 240 hours of classes (90 hours of Classes for General paper, 150 hours for biochemistry subjects) on Saturdays and before (9 am to 10 am) & after (3.30 pm to 4.30 pm) the official working hours of the college were given to them. Printed study materials also given to them. Topic covered under General paper are General knowledge, Communication, mental ability, Teaching aptitude, Reasoning, Mental ability, etc. The Biochemistry subject like Metabolism, enzymology, clinical aspects in biochemistry. Periodical test papers were conducted. These classes were very useful to students for performing well in UGC-NET and SET Examinations.

Fee for Courses: There is no Course Fee.

Participants:

1. Vijay Vishnu .K
2. Anaswara Unni
3. Drishyamol Babu
4. Drishya Remesh
5. Ludhiya Merin A Roy
6. Anshiban K.C
7. Neethu U.R

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DEPARTMENT OF BIOCHEMISTRY CSIR-UGC NET COACHING

Summary Report 2016-17


During the Academic Year 2016-17, Post Graduate Department of Biochemistry and Microbiology conducted UGC NET coaching classes for our PG students during 9 am to 10 am & 3.30 pm to 4.30 pm (before & after the official working hours of the college). Faculties of the concerned department handled the classes.

Fee for Courses: There is no Course Fee.

Participants:

1. Jithin k.p
2. Fuhad K.P
3. Sahala K.P
4. Anjana Babu
5. Anagha K.S
6. Rejitha K.R

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CSIR- NET COACHING 2015-2016

The department of Biochemistry of the college offer long term training for National Eligibility Test (NET) aspirants. This time we offer three different courses, Course for Paper I General and Course for Paper II in biochemistry subjects.
Subjects offered for December 2015 Examination:

- **Life science**

In order to be a part of the programme, candidates have to register in the department. The subject teachers provides materials, notes, model questions, answers, virtual class rooms , interactions and discussions .To top it all, there will be examinations and evaluation.

Fee for Courses: There is no Course Fee.

Participants:

1. Sharannya Mohan
2. Josna George
3. Siva Prasad T
4. Shikha vargees

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CSIR- NET COACHING 2015-2016

The department of Biochemistry of the college offer long term training for National Eligibility Test (NET) aspirants. This time we offer three different courses, Course for Paper I General and Course for Paper II in biochemistry subjects.
Subjects offered for December 2015 Examination:

- **Life science**

In order to be a part of the programme, candidates have to register in the department. The subject teachers provides materials, notes, model questions, answers, virtual class rooms , interactions and discussions .To top it all, there will be examinations and evaluation.

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MODEL QUESTION PAPERS

46. Yeast artificial chromosome (YAC) vectors contain selectable markers. Loss of which marker at the cloning site distinguishes the religated YACs from the original vector marker?

- (1) TRP 1
- (2) SUP4
- (3) URA3
- (4) CEN

47. In amphibian oocyte, the germplasm which gets segregated during cleavage to give rise to primordial germ cells (PGC's) is normally

- (1) distributed evenly throughout the oocyte.
- (2) localized at animal pole.
- (3) localized at vegetal pole.
- (4) aggregated in central part of oocyte.

48. Which of the following statements with respect to alternate oxidase activity in cyanide-resistant respiration in plants, is not correct?

- (1) Alternate oxidase accepts electrons directly from cytochrome C.
- (2) Some plants exhibit thermogenesis during inflorescence development.
- (3) Transcription of alternate oxidase gene is often induced by various abiotic stresses.
- (4) When electrons pass to alternate oxidase, two sites of proton pumping are bypassed.

49. In mature Arabidopsis embryo, root apical meristem consists of cells derived from

- (1) embryo and apical suspensor cells
- (2) embryo only
- (3) suspensor only.
- (4) hypophysis only.

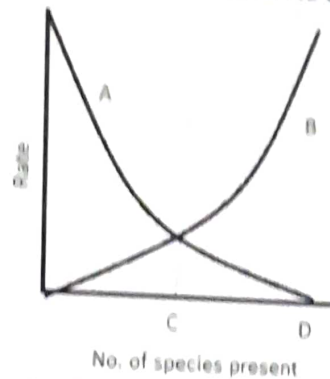
50. $\text{Na}^+\text{-K}^+$ ATPase is a tetramer of 2α and 2β subunits. On which of the following subunits are the Na^+ and K^+ binding sites present?

- (1) both on α
- (2) both on β
- (3) Na^+ on α and K^+ on β
- (4) Na^+ on β and K^+ on α

51. A mother of blood group O has a group A child. The father could be of blood type

- (1) A or B or O.
- (2) A only.
- (3) A or B.
- (4) AB only.

52. Following figure shows McArthur and Wilson's equilibrium model of biota on a single island.



In this figure, terms A, B, C and D in order are

- (1) extinction, immigration, equilibrium number of species, size of species pool.
- (2) immigration, extinction, equilibrium number of species, size of species pool.
- (3) extinction, immigration, size of species pool, equilibrium number of species.
- (4) immigration, extinction, size of species pool, equilibrium number of species.

53. Routinely used glucose biosensor estimates blood glucose level by sensing the concentration of

- (1) glucose.
- (2) oxygen.
- (3) δ -gluconolactone.
- (4) H_2O_2 .

54. Name the ectothermic animal that can thermoregulate by behavioural means rather than by physiological means.

- (1) Bumble bee in an orchard.
- (2) Tuna fish in the ocean.
- (3) Lizard in a desert.
- (4) Flatworm in a pond.

55. Which of the following methods of plant transformation can be used to introduce a gene into chloroplast genome?

- (1) Agrobacterium-mediated transformation
- (2) Particle delivery system
- (3) Permeabilization
- (4) Electroporation

56. The μ and σ of wing length (a normally distributed parameter) in a population of fruitflies are 4 and 0.2 mm. respectively. In a random sample of 400 fruitflies, how many individuals are expected to have wing lengths greater than 4.4 mm?

- (1) 20
- (2) 64
- (3) 10
- (4) 336

PART-A

1. In a 100 m race A beats B by 10 m. B beats C by 5 m. By how many meters does A beat C?

1. 15.0 m 2. 10.5 m
3. 5.5 m 4. 14.5 m

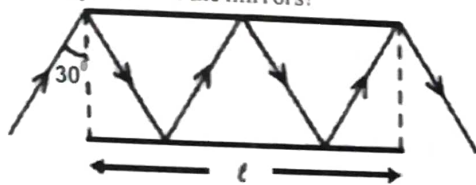
2. Suppose (i) "A*B" means "A is the father of B", (ii) "A Δ B" means "A is the husband of B", (iii) "A ∇ B" means "A is the wife of B" and (iv) "A □ B", means "A is the sister of B". Which of the following represents "C is the father-in-law of the sister of D"?

1. C ∇ E * F □ D 2. C * E ∇ F □ D
3. C Δ E * F □ D 4. C * E Δ F □ D

3. In a group of 11 persons each shakes hand with every other once and only once. What is the total number of such handshakes?

1. 110 2. 121
3. 55 4. 66

4. Path of a ray of light between two mirrors is shown in the diagram. If the length of each mirror is l , what is the total path length of the ray between the mirrors?



1. $\frac{3}{4}l$ 2. $\frac{4}{3}l$
3. $\frac{3}{2}l$ 4. $2l$

5. What is the value of $(1+3+5+7+\dots + 4033) + 7983 \times 2017$?

1. 20170000 2. 20172017
3. 20171720 4. 20172020

6. What is the last digit of $(2017)^{2017}$?

1. 1 2. 3
3. 7 4. 9

7. Pick the correct statement:

- The sky is blue because Sir C.V. Raman gave the correct explanation.
- Copernicus believed that the Sun, and not the Earth, was at the centre of the Solar system.
- The sky appears blue when seen from the Moon.
- No solar eclipse is visible for an astronaut standing on the Moon.

8. A librarian is arranging a thirteen-volume encyclopaedia on the shelf from left to right in the following order of volume numbers: 8, 11, 5, 4, 9, 1, 7, 6, 10, 3, 12, 2. In this pattern, where should the volume 13 be placed?

1. Leftmost 2. Rightmost
3. Between 10 and 3 4. Between 9 and 1

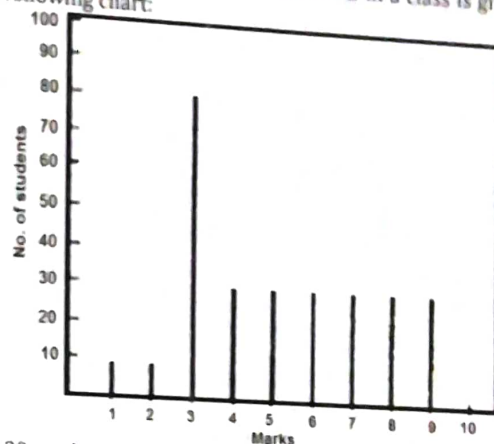
9. Nine-eleventh of the members of a parliamentary committee are men. Of the men, two-thirds are from the Rajya Sabha. Further, $\frac{7}{11}$ of the total committee members are from the Rajya Sabha. What fraction of the total number are women from the Lok Sabha?

1. $\frac{1}{11}$ 2. $\frac{6}{11}$
3. $\frac{2}{11}$ 4. $\frac{3}{11}$

10. When a farmer was asked as to how many animals he had, he replied that all but two were cows, all but two were horses and all but two were pigs. How many animals did he have?

1. 3 2. 6
3. 8 4. 12

11. The distribution of marks of students in a class is given by the following chart:



If 3.30 marks is the passing score in a 10 mark question paper, which of the following is false?

- Majority of the students have scored above the pass mark
- Mode of the distribution is 3
- Average marks of passing students is above 55%
- Average marks of students who have failed is below 20%

12. Mohan lent Geeta as much money as she already had. She then spent Rs.10. Next day, he again lent as much money as Geeta now had, and she spent Rs.10 again. On the third day, Mohan again lent as much money as Geeta now had, and she again spent Rs.10. If Geeta was left with no money. at the end of the third day, how much money did she have initially?

1. Rs.11.25 2. Rs.10
3. Rs. 7.75 4. Rs. 8.75

13. In a sequence of 24 positive integers, the product of any two consecutive integers is 24. If the 17th member of the sequence is 6, the 7th member is

1. 24 2. 4
3. 6 4. 17

14. The prices of diamonds having a particular colour and clarity are tabulated below:

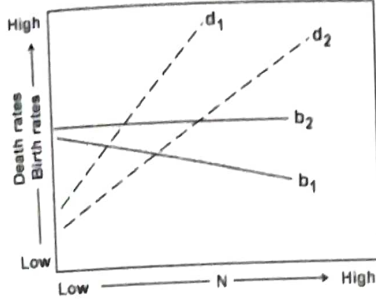
Weight of diamond (in carats)	Price of diamond (in/ rupees/ carat)
0.25	1 lakh
0.5	2 lakh
1	4 lakh
2	8 lakh

How many 0.25 carat diamonds can be purchased for the price of a 2 carat diamond?

1. 8 2. 16
3. 32 4. 64

1. siRNA तथा miRNA दोनों DICER द्वारा संसाधित है।
 2. siRNA तथा miRNA दोनों एक ही जैनेटिक लोकस को नीरवता प्रदान करते हैं जहां से वो उत्पन्न होता है।
 3. miRNA एक प्राकृतिक अणु है जबकि siRNA प्राकृतिक या संश्लिष्ट अणु है।
 4. ड्रोशा द्वारा miRNA संसाधित है, परंतु siRNA नहीं।
32. RNA interference is mediated by both siRNA and miRNA. Which one of the following statement about them is **NOT** true?
1. Both siRNA and miRNA are processed by DICER.
 2. Both siRNA and miRNA usually guide silencing of the same genetic loci from which they originate.
 3. miRNA is a natural molecule while siRNA is either natural or a synthetic one.
 4. miRNA, but not siRNA is processed by Drosha.
33. MHC वर्ग I तथा वर्ग II अणुओं के कुछ लक्षण निम्नवत हैं सिवाय एक के, जो मात्र वर्ग I MHC पर लागू होता है। उसे पहचानें।
1. सभी केंद्रकित कोशिकाओं में वे रचकतः अभिव्यक्त होते हैं।
 2. वे क्षेत्र-संरचना युक्त ग्लाइकोसिलेटेड पॉलिपेप्टाइड हैं।
 3. वे कोशिकाओं को प्रतिजन टुकड़ों को प्रदान करने में सम्मिलित हैं।
 4. B कोशिकाओं की सतही झिल्ली में वे अभिव्यक्त होते हैं।
33. Following are some of the characteristics of MHC class I and class II molecules except one which is applicable only for MHC class I. Identify the appropriate statement.
1. They are expressed constitutively in all nucleated cells.
 2. They are glycosylated polypeptides with domain structure.
 3. They are involved in presentation of antigen fragments to cells.
 4. They are expressed on surface membrane of B cells.
34. निम्न जीवाणुओं में से किसका लयनकायों में उपकोशिकायी स्थानीकरण है?
1. *Salmonella typhi*
 2. *Streptococcus pneumoniae*
 3. *Vibrio cholerae*
 4. *Mycobacterium tuberculosis*
34. Which of the following bacteria has subcellular localization in lysosomes?
1. *Salmonella typhi*
 2. *Streptococcus pneumoniae*
 3. *Vibrio cholerae*
 4. *Mycobacterium tuberculosis*
35. निम्न में से कौन-सा अर्बुदजीन की श्रेष्ठतम परिभाषा करता है?
1. कोशिका-प्रचुरोद्भवन के वर्धन करने वाले कोशिका चक्र प्रोटीन का कोडन एक अर्बुदजीन कभी नहीं करता।
 2. कर्कटरोग के वंशागत प्रकारों में अर्बुदजीन हमेशा सम्मिलित हैं।
 3. अर्बुदजीन उस प्रोटीन के लिए कोडन करता है जो किसी कोशिका को एपोप्टोसिस अनुभव करने से रोकता है।
 4. अर्बुदजीन वह प्रभावी अभिव्यक्तित उत्परिवर्तित जीन है जो उत्तरजीविता के लिए किसी कोशिका को लाभप्रद बना देता है।
35. Which one of the following best defines an oncogene?
1. An oncogene never codes for a cell cycle protein, which promotes cell proliferation.
 2. Oncogenes are always involved in inherited forms of cancer.
 3. An oncogene codes for a protein that prevents a cell from undergoing apoptosis.
 4. An oncogene is a dominantly expressed mutated gene that renders a cell advantageous towards survival.
36. याही-एन्जाइम के बारे में किये गये निम्न कथनों में से कौन-सा गलत है?
1. किसी याही-एन्जाइम के एक बाह्य कोशिकाई संलग्नी-आबंधन क्षेत्र, एक पारझिल्ली क्षेत्र तथा एक अंतराकोशिकाई उत्प्रेरकी (एन्जाइम) क्षेत्र होते हैं।
 2. प्राणियों में अनेक प्रकार के याही-एन्जाइम पाये जाते हैं।

130. The birth rates (b) and death rates (d) of two species 1 and 2 in relation to population density (N) are shown in the graph. Which of the following is **NOT** true about the density dependent effects on birth rates and death rates?



1. Birth rates are density-dependent in species 1 and density-independent in species 2.
2. Death rates are density-dependent in both the species.
3. Density-dependent effect on birth rate is stronger in species 1 than in species 2.
4. The density-dependent effects on death rates are similar in both the species.

131. प्रतिस्पर्धा में शामिल दो प्रजातियों A तथा B के लिए, पालन क्षमता तथा प्रतिस्पर्धा गुणांक क्रमशः हैं
 $K_A = 150$ $K_B = 200$
 $\alpha = 1.0$ $\beta = 1.3$
 अंतर्प्रजाति प्रतिस्पर्धा के लोटका-वोल्टेरा प्रतिमान के अनुसार प्रतिस्पर्धा का परिणाम होगा

1. प्रजाति A जीतती है।
2. प्रजाति B जीतती है।
3. दोनों प्रजातियां एक स्थायी साम्यावस्था पर पहुंचती हैं।
4. दोनों प्रजातियां एक अस्थायी साम्यावस्था पर पहुंचती हैं।

131. For two species A and B in competition, the carrying capacities and competition coefficients are
 $K_A = 150$ $K_B = 200$
 $\alpha = 1.0$ $\beta = 1.3$
 According to the Lotka-Volterra model of interspecific competition, the outcome of competition will be
1. Species A wins.
 2. Species B wins.
 3. Both species reach a stable equilibrium.
 4. Both species reach an unstable equilibrium.

132. क्रमशः आवृतियां 0.6 तथा 0.4 युक्त, दो एलील A_1 तथा A_2 के साथ, एक अल्लिगसूत्री विस्थल पर

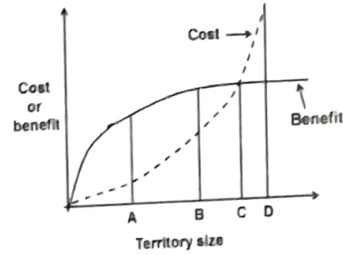
विचारें। हर पीढ़ी, A_1 , A_2 में उत्परिवर्तित होता है गति $\mu = 1 \times 10^{-5}$ के साथ जबकि A_2 , A_1 में उत्परिवर्तित होता है गति $= 2 \times 10^{-5}$ के साथ। यह मानें कि आबादी अनंततः बड़ी है तथा अन्य कोई क्रमविकासी बल लागू नहीं है। एलील A_1 की साम्यावस्था आवृति है

1. 1.0.
2. 0.5.
3. 0.67.
4. 0.33.

132. Consider an autosomal locus with two alleles A_1 and A_2 at frequencies of 0.6 and 0.4 respectively. Each generation, A_1 mutates to A_2 at a rate of $\mu = 1 \times 10^{-5}$ while A_2 mutates to A_1 at a rate of $= 2 \times 10^{-5}$. Assume that the population is infinitely large and no other evolutionary force is acting. The equilibrium frequency of allele A_1 is

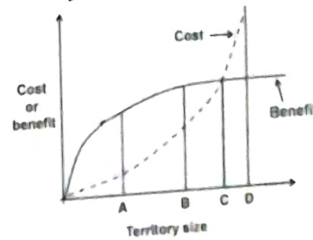
1. 1.0.
2. 0.5.
3. 0.67.
4. 0.33.

133. निम्न दिये गये आलेख के प्रसंग में अनुकूलतम क्षेत्र आमाप को पहचानें



1. A
2. B
3. C
4. D

133. With reference to the graph given below, identify the optimal territory size.



1. A
2. B
3. C
4. D

134. किसी जीव की स्वस्थता को एक विशेष आचरण परिवर्त प्रभावित करता है। आबादी में परिवर्त की आवृति तथा स्वस्थता के बीच संबंध निम्न चित्रित हैं। निम्न विषयों में से किसमें आचरण परिवर्त की आवृति की 1 पर पहुंचने की श्रेष्ठतम संभाविता है?

D. डीनोस में लघुतर परिवर्तनीय खण्डों की पहचान सुनिश्चित गिरा प्रतिविचय तकनीक द्वारा की जा सकती है।

सभी सही कथनों काया विकल्प चुनिए?

1. A, B, C
2. A, C, D
3. B, C, D
4. A, B, D

91. Following observations were made about variations among genomes of eukaryotic organisms:

- A. Single nucleotide polymorphisms are the numerically most abundant type of genetic variants
- B. Both, interspersed and tandem repeated sequences can show polymorphic variation
- C. Mitotic recombination between mispaired repeats causes change in copy number and generates minisatellite diversity in population
- D. Smaller variable segments in the genome can be identified by paired end mapping technique

Select the option with all correct statements

1. A, B, C
2. A, C, D
3. B, C, D
4. A, B, D

92. अनेक विशिष्ट टी-कोशिका मतही अणु अनुकूली प्रतिरक्षा प्रतिक्रिया के विशिष्ट कार्य में संलग्न होते हैं। कॉलम X में टी-कोशिका मतही अणुओं की सूची तथा कॉलम Y में संभावित कार्यात्मक लक्षण दिए गए हैं:

कॉलम X	कॉलम Y
A. टी कोशिका राही	(i) सीडी 40 को बी कोशिकाओं और एपीसी पर बांधता है तथा एपीसी के सक्रियण एचम् बी कोशिकाओं के सक्रियण/विभेदन को प्रवर्तित करता है।
B. सीडी28	(ii) एमएचसी वर्ग I अणुओं से बांधता है एवं टी माइटोटिक/विभेदन को प्रवर्तित करता है। पर उपस्थित किए गए पेप्टाइड की पहचान करने के लिए रोकता है।

C. सीडी8	(iii) बी कोशिकाए एच एपीसी पर बी 7-1, 2 या सीडी 80/86 से बांधता है, एवं टी कोशिका को सक्रिय करता है।
D. सीडी154	(iv) α एचम् β दो पॉलीपेप्टाइड शृंखलाओं से बनाता है तथा कुछ γ एचम् δ पॉलीपेप्टाइड शृंखलाओं से बनाते हैं।

निम्नलिखित में से सभी सही युग्मों काया विकल्प कौन सा है?

1. A - (i) ; B - (ii) ; C - (iii) ; D - (iv)
2. A - (iv) ; B - (i) ; C - (ii) ; D - (iii)
3. A - (iii) ; B - (iv) ; C - (i) ; D - (ii)
4. A - (iv) ; B - (iii) ; C - (ii) ; D - (i)

92. There are number of specific T cell surface molecules involved in various functions of adaptive immune response. Column X represents a list of T cell surface molecules and Column Y with the possible functional characteristics:

Column X	Column Y
A. T cell receptor	(i) binds to CD40 on B cells and APCs and triggers activation of APCs and activation/differentiation of B cells.
B. CD28	(ii) binds to MHC class I molecules and restricts T cytotoxic cells to recognizing only peptide presented on MHC class I
C. CD8	(iii) binds to B7-1, 2 or CD80-86 on B cells and APCs, which triggers T cell activation.
D. CD154	(iv) consists of two polypeptide chains α and β and some consist of polypeptide chains γ and δ .

Which of the following option has all correct matches?

1. A - (i) ; B - (ii) ; C - (iii) ; D - (iv)
2. A - (iv) ; B - (i) ; C - (ii) ; D - (iii)
3. A - (iii) ; B - (iv) ; C - (i) ; D - (ii)
4. A - (iv) ; B - (iii) ; C - (ii) ; D - (i)