

**M. Tech. (Biotechnology)**

1. Column chromatography separates molecules according to their :  
(A) Molecular size (B) Solubility  
(C) Polarity (D) Matrix
2. The 'National Bureau of Animal Genetic Resources' is situated at :  
(A) New Delhi (B) Bangalore  
(C) Karnal (D) Pune
3. ELISA is based on :  
(A) Antigen-antibody interaction (B) Antigen-protein interaction  
(C) Lectin-antibody interaction (D) All of these
4. Which of the following enzymes ensures that eukaryotic chromosome does not become shortened with each round of DNA replication ?  
(A) Topoisomerase (B) Gyrase  
(C) Telomerase (D) Polymerase
5. Which of the following microbes is used as biopesticide ?  
(A) *Agrobacterium tumefaciens* (B) *Bacillus thuringiensis*  
(C) *Agrobacterium rhizogenes* (D) *Bacillus amyloliquefaciens*
6. The operon model, a negative control mechanism was developed in 1961 by :  
(A) Griffith and coworkers (B) Jacob and Monod  
(C) Zinder and Lederberg (D) Lederberg and Tatum

7. The fluid mosaic model of plasma membrane given by Sanger and Nicolson is applicable to :
- (A) Only prokaryotic membrane
  - (B) Only eukaryotic membrane
  - (C) Both prokaryotic and eukaryotic membranes
  - (D) Only to organelle membranes
8. Which type of restriction endonuclease enzymes are most widely used in recombinant DNA technology ?
- (A) Type I enzymes
  - (B) Type II enzymes
  - (C) Type III enzymes
  - (D) All of these
9. DNA and RNA are similar in having :
- (A) Similar nucleotides
  - (B) Similar pyrimidines
  - (C) Similar purines
  - (D) Similar sugars
10. Exchange of parts between two non-homologous chromosomes is called :
- (A) Crossing over
  - (B) Translocation
  - (C) Inversion
  - (D) Duplication
11. Which of the following cell types will be involved in an immediate hypersensitivity reaction due to an insect sting ?
- (A) Basophils
  - (B) Neutrophils
  - (C) Eosinophils
  - (D) Mast cell
12. Which DNA polymerase has 5' to 3' exonuclease activity ?
- (A) DNA polymerase  $\delta$
  - (B) DNA polymerase I
  - (C) DNA polymerase II
  - (D) DNA polymerase III

13. Which microscope uses electrons to produce three-dimensional image of an object ?
- (A) Scanning electron microscope
  - (B) Phase Contrast microscope
  - (C) Bright field microscope
  - (D) Transmission electron microscope
14. Which of the following is a protein sequence database ?
- (A) Swiss\_Prot
  - (B) Genbank
  - (C) PDB
  - (D) EMBL
15. Which statistical indicator is most widely used to evaluate BLAST results ?
- (A) E-value
  - (B) Z-score
  - (C) Bits-score
  - (D) Both (A) and (C)
16. Which of the following is simulation of working of human brain ?
- (A) ANN
  - (B) SVM
  - (C) HMM
  - (D) MSA
17. Which of the following tools can be used for multiple sequence alignment ?
- (A) Clustal
  - (B) Genemark
  - (C) MEGA
  - (D) Dot plot
18. Which of the following is the search engine for NCBI ?
- (A) SRS
  - (B) Entrez
  - (C) Google
  - (D) Infilbnet

19. Which of the following algorithms can be used to do pair wise alignment of sequences of similar length ?
- (A) Smith waterman algorithm
  - (B) Needleman and Wunch algorithm
  - (C) Local alignment algorithm
  - (D) Progressive algorithm
20. Which of the following programming language is most widely used in field of biology ?
- (A) JAVA
  - (B) C
  - (C) PERL
  - (D) C++
21. Which of the following is the most popular tool to identify ligand receptor interaction within the active sites ?
- (A) Autodock
  - (B) GROMACS
  - (C) BankIt
  - (D) INSDC
22. Which of the following scientists created first bioinformatics database ?
- (A) Margarete Dayhoff
  - (B) Walter Goad
  - (C) Richard Durbin
  - (D) Robert Koch
23. The process of finding the relative location of genes on a chromosome is called :
- (A) Gene walking
  - (B) Genome tracking
  - (C) Genome mapping
  - (D) Chromosome walking
24. Which of the following means experiments performed using computers ?
- (A) In-vitro
  - (B) In-silico
  - (C) In-vivo
  - (D) Wet labs

25. The median of a set of observations is 20.5 if each of the largest 4 observations of the set is increased by 2, then the median of new set :
- (A) remains the same as that of original set  
(B) is increased by 2  
(C) is decreased by 2  
(D) is two times the original median
26. Family of curves  $Y = Ax + A^3$  is represented by the differential equation of degree :
- (A) 3 (B) 2  
(C) 1 (D) None of these
27. Trace of skew symmetric is always :
- (A) Negative (B) Positive  
(C) Zero (D) None of these
28. The major site of attack by HIV-virus on immune system is :
- (A) MHC (B) B-Lymphocytes  
(C) T-Lymphocytes (D) Macrophages
29. Immunoglobulin playing role in allergic reaction :
- (A) IgG (B) IgM  
(C) IgD (D) IgE
30. T-helper cells can be marked on the basis of :
- (A) CD4 (B) CD8  
(C) Phagocytotic activity (D) Membrane lipids

31. Secondary immune response is generated due to :
- (A) Memory cells (B) Nave B-Cells  
(C) Nave T-Cells (D) Natural killer cells
32. Which cell is involved in eliminating antigen by non-specifically by engulfing them ?
- (A) Phagocytotic cells (B) T-Helpers cells  
(C) B-Cells (D) Killer T-Cells
33. In severe combined immunodeficiency (SCID) syndrome there is :
- (A) Low number of Neutrophils (B) Low No. of T or B cells  
(C) Low Macrophages (D) Low amount of IgG
34. Mode of certain series is X. If each score is decreased by 3, then mode of new series is :
- (A) X (B) X-3  
(C) X+3 (D) 3X
35. DNA is destabilized by :
- (A) Formamide (B) Poly glycine  
(C) PEG (D) Sucrose
36. Pentacyclic ring is common in Vit A, Vit K & Chlorophyll is :
- (A) Isoprene (B) Pentose  
(C) Phenol (D) Aldehyde

37. SDS disrupts protein by changing their :
- (A) Primary structure
  - (B) Primary and secondary structure
  - (C) Secondary and Tertiary structure
  - (D) Secondary, tertiary and quaternary structure
38. The cards are drawn from a pack of cards. The chance of getting different suit as well as different denomination is :
- (A)  $\frac{132}{425}$
  - (B)  $\frac{123}{425}$
  - (C)  $\frac{132}{245}$
  - (D) None of these
39. The mode of action of antibiotic penicillin is :
- (A) It inhibits transpeptidase of cell wall
  - (B) Antibiotic is excluded by cell membrane
  - (C) Antibiotic is not allowed to enter the cell
  - (D) It deactivates the cell transport
40. Nitrate reductase is an important enzyme for nitrate assimilation. Given below are some statements on nitrate reductase :
- (a) Nitrate reductase of higher plants are composed of two identical subunits.
  - (b) One subunit of nitrate reductase contains three prosthetic groups.
  - (c) One of the prosthetic group is attached to both subunits of heme.
  - (d) One of the prosthetic group attached to pterin is magnesium.
- Which of the following combination of above statements is correct ?
- (A) a, b and c
  - (B) b, c and d
  - (C) a, c and d
  - (D) a, b and d

41. Change in elasticity of membrane is due to :
- (A) Change in cis-trans phase of fatty acids
  - (B) Change in protein composition
  - (C) Cholesterol
  - (D) Phospholipids
42. The bonding which are responsible for holding two  $\beta$  sheets together is :
- (A) Disulphide bond
  - (B) Hydrogen bond
  - (C) Covalent bond
  - (D) Hydrophobic bond
43. Distance between two base pairs in Watson-Crick B-DNA is :
- (A) 34 nm
  - (B) 3.4 nm
  - (C) 0.34 nm
  - (D) 0.034 nm
44. Lipids which ranges from 120-160 kDa in size. Then also they are kept amongst the macromolecules because :
- (A) They are main component of membrane
  - (B) They are main component of cell
  - (C) In water they form large complex structure
  - (D) They are present in large amount
45. Which technique would you use to determine the expression levels of the transgene ?
- (A) Northern and western blotting
  - (B) Northern blotting
  - (C) Western blotting
  - (D) Southern blotting



46. Yeast Artificial Chromosome (YAC) is used for :
- (A) Cloning large segment of DNA
  - (B) Cloning only yeast genomic sequence
  - (C) Cloning only cDNA sequence
  - (D) All DNA except plant DNA sequence
47. Which of the following are the types of mass analysers in mass spectroscopy ?
- (i) ESI
  - (ii) TOF
  - (iii) MALDI
  - (iv) Quadrupole
  - (v) Electron multiplier
- (A) i and iii
  - (B) ii and iv
  - (C) iii and v
  - (D) i, iii and v
48. PCR :
- (A) uses a DNA polymerase
  - (B) uses dNTPs
  - (C) uses primers
  - (D) All of these
49. Amino benzyloxymethyl filter paper is commonly used for the transfer in :
- (A) Southern Blotting
  - (B) Northern Blotting
  - (C) Western Blotting
  - (D) All of these
50. Which of the processes requires energy ?
- (A) ligation
  - (B) transformation
  - (C) restriction digestion
  - (D) hybridization

51. The substrate for restriction enzyme is :
- (A) ssDNA (B) partial dsRNA  
(C) cell wall proteins (D) dsDNA
52. The term cDNA library means :
- (A) collection of cDNA clones by an individual researcher  
(B) compilation of cDNA sequences in a database  
(C) pool of cDNAs generated from a specific tissue inserted into an appropriate vector that can be used as a source of the cDNA of interest  
(D) It is manual for cDNA of interest
53. The essential component of Ti plasmid required for integration into plant genome is :
- (A) origin of replication (B) tumour inducing gene  
(C) Nopaline utilization enzyme (D) All of these
54. To be a cloning vector, a plasmid *does not* require :
- (A) an origin of replication  
(B) an antibiotic resistance marker  
(C) a restriction site  
(D) have a high copy number
55. Flow cytometer is used to measure the number of :
- (A) cells (B) RNA  
(C) DNA (D) Proteins

56. Which technique is used for biodiversity characterization ?
- (A) RAPD (B) SSR  
(C) RFLP (D) SNP
57. It has been found that if A and B play a game 12 times, A wins 6 times, B wins 4 times and 2 times the match draws. A and B take part in a series of 3 game. The probability that they will win alternatively is :
- (A)  $\frac{5}{12}$  (B)  $\frac{5}{36}$   
(C)  $\frac{19}{27}$  (D) None of these
58. Minimum resolution of electron microscope is :
- (A) 0.2 mm (B) 20 nm  
(C) 20 mm (D) 0.2 nm
59. In Eukaryotes, which of the following is *not* a second messenger ?
- (A) 1,2-diacyl glycerol (B) Cyclic AMP  
(C) inositol1,4,5-triphosphate (D) Cyclins
60. The major events of mitotic prophase include all of the following *except* :
- (A) Chromosome coiling (B) DNA replication  
(C) Nuclear envelope breakdown (D) Nucleolar Disaggregation
61. The basis for the blocking action of the alkaloid colchicine on cell division is :
- (A) G1 phase (B) S phase  
(C) G2 phase (D) M phase

62. Which of the following criteria can be used to distinguish between prokaryotic and eukaryotic cells ?
- (A) Whether or not they have plasma membrane
  - (B) Whether or not they have a nucleus (membrane enclosed nucleoplasm)
  - (C) Comparison of sequences of homologous proteins
  - (D) Comparison of signature sequences of 16s rRNA
63. Bacterial genomes is prevented by its own endonucleases by :
- (A) Methylation at restriction site
  - (B) Immune mechanism
  - (C) Nuclease resistant genome
  - (D) Are not much effective on bacterial genome
64. During RNA processing splicing is mediated by :
- (A) Sn RNA
  - (B) rRNA
  - (C) tRNA
  - (D) mRNA
65. Among the enzymes which are *not* involved in DNA replication process ?
- (A) Primase
  - (B) RNA polymerase
  - (C) DNA polymerase
  - (D) Helicase
66. Anticodon sequence lies on :
- (A) DNA
  - (B) tRNA
  - (C) mRNA
  - (D) rRNA

67. Which of the following is *not* possible in biological systems ?
- (A) DNA → RNA → Protein
  - (B) Protein → RNA → DNA
  - (C) RNA → DNA → Protein
  - (D) Glucose → Amino acid → Protein
68. Which eukaryotic RNA polymerase transcribes *t*RNA genes ?
- (A) DNA Pol I
  - (B) RNA Pol I
  - (C) RNA Pol II
  - (D) RNA Pol III
69. Mutations which *do not* cause any functional change in the protein are known as :
- (A) Non-sense Mutations
  - (B) Mis-sense Mutations
  - (C) Silent Mutations
  - (D) Backward Mutations
70. Photoreactivation :
- (A) repairs dimers in DNA using an endonuclease
  - (B) remove alkylating agents from bases
  - (C) deaminates bases
  - (D) uses light to activate repair enzymes
71. To compare the mean values between two sets of data, we can employ :
- (A) t test
  - (B) Q test
  - (C) F test
  - (D) Least significant difference (LSD)

72. In a diploid organism what is the maximum number of alleles that can exist in a population for any given gene ?
- (A) 1 (B) 2  
(C) 4 (D) Unlimited
73. During conjugation :
- (A) Cell to cell contact is required  
(B) Naked DNA is transferred  
(C) Bactriophage mediates DNA transfer  
(D) Only plasmid is transferred from donor to recipient
74. In Human number of linking groups present in male is :
- (A) 21 (B) 22  
(C) 23 (D) 24
75. Distance between two genes is measured in which units ?
- (A) cM (B) mm  
(C)  $\mu\text{m}$  (D) nm
76. Mendel test cross ratio in two point cross is :
- (A) 9:3:3:1 (B) 1:1:1:1  
(C) 3:1 (D) 1:1
77. Point mutation in which there is deletion or addition of one base pair is termed as :
- (A) Deletion (B) Transition  
(C) Transversion (D) Frame shift mutation

78. Diploid maize have 10 pairs of chromosome, then chromosomes at metaphase-I will be :
- (A) 10 (B) 20  
(C) 30 (D) 40
79. Tissue culture technique was first practised by :
- (A) White (B) Haberlandt  
(C) Halperin (D) Skoog
80. Which of the following plant parts is free from the attack of the virus ?
- (A) Stem (B) Root  
(C) Meristem (D) Leaves
81. Hybridoma technology was developed by :
- (A) Kohler and Milstein (B) Khorana and Nirenberg  
(C) Khorana and Korenberg (D) Beedle and Tautum
82. 95% Transgenic animals are :
- (A) Sheep (B) Rabbits  
(C) Pigs (D) Mice
83. Which of the following is an application of thermodynamics ?
- (A) Refrigerators (B) Gas compressors  
(C) Power plants (D) All of these
84. Which of the following thermodynamics law gives the concept of Enthalpy ?
- (A) First law of thermodynamics  
(B) Second law of thermodynamics  
(C) Third law of thermodynamics  
(D) Fourth law of thermodynamics

85. Which type of reactor, aeration is generally accomplished in separate vessel ?  
(A) Fluidised bed (B) Trickle bed  
(C) Packed bed (D) Stirred and air driven reactors
86. Which of the following is a method of heat transfer ?  
(A) Convection (B) Conduction  
(C) Radiation (D) All of the above
87. When is fluid called turbulent ?  
(A) High viscosity of fluid  
(B) Reynolds number is greater than 2000  
(C) Reynolds number is less than 2000  
(D) The density of fluid is low
88. What is the degree of reduction of glucose ?  
(A) 4 (B) 3  
(C) 12 (D) 24
89. In which of the following recycling maximum energy is saved ?  
(A) Steel (B) Cardboard  
(C) Paper (D) Aluminium cans
90. When electronic device is used in biosensor ?  
(A) Transmitter (B) Receptor  
(C) Transducer (D) Electrolyte
91. Which one of the following is *not* type of transfer in molecular diffusion ?  
(A) Density (B) Mass  
(C) Momentum (D) Energy



92. In order to separate RBCs & WBCs which of the following methods can be used?
- (A) Ion exchange chromatography and FACS
  - (B) Hydrophobic chromatography and Density gradient centrifugation
  - (C) Density gradient centrifugation and FACS
  - (D) Hydrophobic chromatography and FACS
93. Which is main tool in the purification of recombinant enzyme ?
- (A) Ultracentrifugation
  - (B) Affinity Chromatography
  - (C) Thin Layer Chromatography
  - (D) Immunoprecipitation
94. Which of the following would be the best method of separate  $\alpha$ AT from altered  $\alpha$ AT ?
- (A) Size-exclusion chromatography
  - (B) Ion-exchange chromatography
  - (C) Thin-layer chromatography
  - (D) Sucrose-gradient chromatography
95. The purpose of feed forward control is to :
- (A) Eliminate the need for feedback control in a process
  - (B) Reduce the effect of load variation on the process variable
  - (C) Save energy
  - (D) Compensate for dead time and lag time in process

96. Which of the following statements is *correct* for Thiele Modulus :
- (A) The relationship between diffusion and reaction rates in porous catalyst pellets with no mass transfer limitation
  - (B) The relationship between diffusion and reaction rates in porous catalyst pellets with no heat transfer limitation
  - (C) The relationship between diffusion and reaction rates in porous catalyst pellets with no pressure limitation
  - (D) None of the above
97. Which of the following equations represents the bacterial growth kinetics in batch culture ?
- (A)  $X = \frac{X_o}{2} 2^n$
  - (B)  $X = 2 \frac{X_o}{2} 2^n$
  - (C)  $X = X_o 2^n$
  - (D)  $X = 2 X_o 2^n$
98. Mycobacterial cell wall is the immune system booster present in :
- (A) alum
  - (B) Freund's incomplete adjuvant
  - (C) Freund's complete adjuvant
  - (D) All of these
99. Prokaryotic organism includes :
- (A) archaebacteria, eubacteria and protists
  - (B) archaebacteria and eubacteria
  - (C) eubacteria and protists
  - (D) archaebacteria and protists
100. 1 ppm (parts per million) is equivalent to :
- (A) 1  $\mu\text{g/L}$
  - (B) 1  $\text{g/L}$
  - (C) 1  $\mu\text{g/100 ml}$
  - (D) 1  $\text{mg/L}$

## GENERAL APTITUDE

**101. Direction :** Read the given instructions carefully and answer the question below :

$A + B (5)$  = A is 10 m to the NORTH of B

$A - B (7)$  = A is 12 m to the SOUTH of B

$A * B (12)$  = A is 17 m to the EAST of B

$A / B (11)$  = A is 16 m to the West of B.

$R / P (13)$ ,  $P / Q (19)$ ,  $S + Q (5)$ ,  $U / S (19)$ ,  $U - T (5)$

Which 3 points are in a straight line ?

(A) RPS

(B) USQ

(C) TUP

(D) RTU

**102.** Complete the series :

186    210    258    282    ?    354

(A) 318

(B) 326

(C) 330

(D) 352

**103. Direction :** Study the following information carefully and answer the question given below :

'B + A' means 'A is son of B'

'B  $\times$  A' means 'A is father of B'

'A % B' means 'A is son-in-law of B'

'B - A' means 'A is wife of B'

'A \* B' means 'B is brother of A'

'A # B' means 'B is the only sister of A'

Which symbol will come in place of question mark in the following equation to show that V is daughter-in-law of L?

$V + Z \times T ? L$

(A) +

(B) %

(C) #

(D) x

**104. Direction :** Read the following information carefully and answer the question given below :

“Backlog disc live heavily” is coded as “ 2\$A 4#I 8\$E 12#I ”

“Innocent band actress salute” is coded as ” 2#A 1\$C 9%N 19&A”

“Notify selfish model change” is coded as “14&O 13!O 19\$E 3&H”

“Langer hill external limelight” is coded as “12&A 12@I 8#I 5%X”

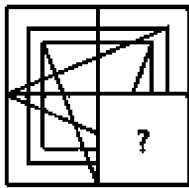
Find the code for "Great gesture".

- (A) 7!E 7\$S (B) 7!R 7\$A  
(C) 7!R 7\$E (D) 7!G 7\$E

**105. Particular :** Fussy :: \_\_\_\_\_ : Subservient

- (A) Meek (B) Above  
(C) Cranky (D) Uptight

**106. Direction :** Which answer figure will complete the pattern of the given incomplete figure ?



- (A) (B) (C) (D)

**107. Direction :** Read the following information carefully and answer the question given below :

Certain number of persons (that does not exceed 15) are standing in a straight linear row facing towards the north. 5 persons stand between B and E, who is third to the left of A. U is to the right of A. Not more than 3 persons stand between U and T. B is third to the left of U. I is fifth to the right of T. 2 persons stand between E and F, who is sitting at the extreme left end of the row. Three persons stand between A and L, who is towards the right of E.

Find the odd one out ?

- (a) A
- (b) B
- (c) T
- (d) F

**108.** In the following question, there is a statement followed by two arguments I and II. Read carefully and choose the right option from the given possible answers :

**Statement**—Should we scrap the Public Distribution System in India ?

**Arguments**—

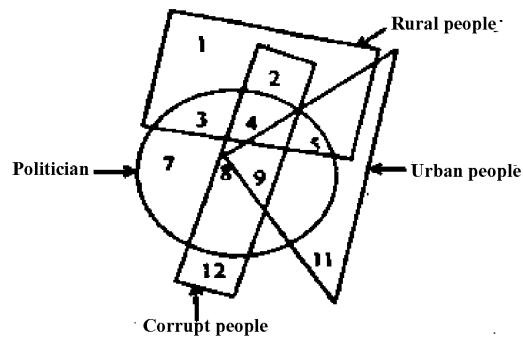
- I. Yes, protectivism is over everyone must get the bread on his/her own.
- II. Yes, the poor do not get any benefit because of corruption.

Given answers :

- (a) Only argument I is strong
- (b) Only argument II is strong
- (c) Either I or II is strong
- (d) Neither I nor II is strong

- |       |       |
|-------|-------|
| (A) a | (B) b |
| (C) c | (D) d |

109. In the following Venn diagram, identify the politicians from urban areas who are corrupt :



- (A) 10
- (B) 9
- (C) 8
- (D) 4

110. Arrange the words given below in a meaningful sequence :

1. Patient
2. Diagnosis
3. Bill
4. Doctor
5. Treatment

- (A) 1, 4, 2, 3, 5
- (B) 1, 4, 3, 2, 5
- (C) 1, 4, 2, 5, 3
- (D) 4, 1, 2, 3, 5

## GENERAL ENGLISH

**111. Direction :** Which of the phrases given below should replace the phrase given in bold in the following sentences to make the sentence grammatically correct ?

It is the implementation of integrated Rural Development (IRD) programme that is posing most formidable managerial challenges **when financial and even material** inputs are not serious constraints.

- (A) when financial or material
- (B) when financial, material and even
- (C) when even financial or material
- (D) even when financial and material

**112.** The sentences given in this question, when properly sequenced, form a coherent paragraph. Decide on the proper order for the sentences and key in this sequence as your answer :

1. This has huge implications for the health care system as it operates today, where depleted resources and time lead to patients rotating in and out of doctor's offices, oftentimes receiving minimal care or concern (what is commonly referred to as "bed side manner") from doctors.
2. The placebo effect is when an individual's medical condition or pain shows signs of improvement based on a fake intervention that has been presented to them as a real one and used to be regularly dismissed by researchers as a psychological effect.
3. The placebo effect is not solely based on believing in treatment, however, as the clinical setting in which treatments are administered is also paramount.
4. That the mind has the power to trigger biochemical changes because the individual believes that a given drug or intervention will be effective could empower chronic patients through the notion of our bodies' capacity for self-healing.
5. Placebo effects are now studied not just as foils for "real" interventions but as a potential portal into the self-healing powers of the body.

- |           |           |
|-----------|-----------|
| (A) 25431 | (B) 24531 |
| (C) 23145 | (D) 23154 |

**113.** Fill in the blank :

Everyone of us will have to atone \_\_\_\_\_ his or her misdeeds.

- (A) of (B) for
- (C) by (D) with

**114. Direction :** The given sentence has been broken up into four different parts. The error, if any, will be in any one part of the sentence. Select the option which contains the part of the sentence which has an error (spelling, grammatical or contextual) :

The cancer patient is comparatively better (A) / today and the doctor hopes (B) / that he will go into (C) / remission soon. (D)/

- (A) The cancer patient is comparatively better
- (B) today and the doctor hopes
- (C) that he will go into
- (D) remission soon

**115. Direction :** The following question has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fits in the context of the sentence :

The government must focus on water \_\_\_\_\_ , protection of water bodies, bumping up distribution networks and make rainwater \_\_\_\_\_ a mandatory feature in new housing.

- (A) preservation, harbouring
- (B) fermentation, issuing
- (C) conservation, harvesting
- (D) management, humouring



116. Find the correctly spelt word :

- |                |                |
|----------------|----------------|
| (A) Vermilion  | (B) Verrmilion |
| (C) Vermmilion | (D) Veromilion |

117. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

He was punished for **taking French leave**.

- (A) leaving without intimation
- (B) giving lame excuse
- (C) resigning without giving notice
- (D) being absent without permission

118. Out of the four alternatives choose the one which can be substituted for the given words/sentence in the question :

**A flat waste land**

- |          |           |
|----------|-----------|
| (A) Welt | (B) Pert  |
| (C) Aria | (D) Heath |

119. Find the antonym of IRASCIBLE :

- |                |            |
|----------------|------------|
| (A) Determined | (B) Placid |
| (C) Reasonable | (D) Pliant |

120. Find the synonym of TEMERITY :

- |              |                 |
|--------------|-----------------|
| (A) Audacity | (B) Fearfulness |
| (C) Shyness  | (D) Stupidity   |