

# ICMR-JRF Previous Year Paper 2018



PART I -SECTION -A: APTITUDE

1. The most abundant element found in Earth's mass is
  - 1) Ca
  - 2) Fe
  - 3) Al
  - 4) Mg
2. Haemophilia, an inherited disorder that affects only males is:
  - 1) Recessive X-linked
  - 2) Dominant X-linked
  - 3) Y-linked
  - 4) Dominant autosomal
3. A camera setting that allows the camera to choose the correct focus distance for you
  - 1) Autofocus
  - 2) Zoom Lens
  - 3) Framing
  - 4) Aperture
4. The molecular weight of NaCl is 58. How many mg is in 50  $\mu$ mol of NaCl?
  - 1) 290 mg
  - 2) 29 mg
  - 3) 2.9 mg
  - 4) 29 g
5. Which of the following is non-mutagenic?
  - 1) UV
  - 2) Acridine
  - 3) IR
  - 4) X-ray
6. Which of the following is not a lichen?
  - 1) *Lobaria oregano*
  - 2) *Rhizocarpon geographicum*
  - 3) Reindeer moss
  - 4) *Cladophialophora bantiana*
7. Which one of the following is a superfluid?
  - 1)  $^4\text{He}$
  - 2)  $^3\text{He}$
  - 3)  $^5\text{Li}$
  - 4)  $^4\text{Li}$
8. The WHO specified provisional guideline limit for Arsenic concentrations in potable water, is
  - 1) 1  $\mu\text{g/L}$
  - 2) 10  $\mu\text{g/L}$
  - 3) 100  $\mu\text{g/L}$
  - 4) 0.1  $\mu\text{g/L}$
9. The effect of splitting a spectral line into several components in the presence of a static magnetic field is called
  - 1) Stark Effect
  - 2) Zeeman Effect
  - 3) Planck Phenomenon
  - 4) Bohr phenomenon
10. Most common blood group among Indian population:
  - 1) O +
  - 2) A +
  - 3) B+
  - 4) AB+
11. The women scientist who won Nobel prize in 2015 for her discovery on a novel therapy against malaria is
  - 1) Youyou Tu
  - 2) Svetlana Alexievich
  - 3) Malala Yousafzai
  - 4) Alice Munro
12. All are basic types of melanin except
  - 1) Eumelanin
  - 2) Pheomelanin
  - 3) Neuromelanin
  - 4) Cystomelanin
13. One of the following diseases is due to protein deficiency:
  - 1) Scurvy
  - 2) Marasmus
  - 3) Beriberi
  - 4) Rickets



14. All are true about Type -2 diabetes mellitus except:
- 1) It is a genetic disease
  - 2) Disease of life style
  - 3) Caused due to increase in insulin production
  - 4) Caused due to inability of cells to respond to normal levels of insulin
15. Following are the types of active transport through cell membrane except:
- 1) Sodium -Potassium pump
  - 2) Endocytosis
  - 3) Osmosis
  - 4) Exocytosis
16. International day for preservation of the Ozone layer is:
- 1) 16 September
  - 2) 2 October
  - 3) 31 October
  - 4) 27 November
17. An instrument used to measure humidity is
- 1) Anemometer
  - 2) Hygrometer
  - 3) Thermometer
  - 4) Pyrhellometer
18. Which gas is safe and effective extinguisher for all confined fires
- 1) Nitrogen dioxide
  - 2) Carbon dioxide
  - 3) Sulphur dioxide
  - 4) Nitrous Oxide
19. The country that has regulations relating to the trans fats in foodstuffs is
- 1) India
  - 2) South Africa
  - 3) Australia
  - 4) United States of America
20. Pregnancy can be terminated medically up to:
- 1) 12 weeks
  - 2) 20 weeks
  - 3) 18 weeks
  - 4) 24 weeks
21. HLA matching is done during:
- 1) Blood transfusion
  - 2) Platelet transfusion
  - 3) Total parenteral nutrition
  - 4) Organ transplantation
22. Nosocomial infections are:
- 1) Acquired during the course of hospitalisation
  - 2) Due to vaccination
  - 3) Due to mosquito bite
  - 4) Due to rat bite
23. Which one of the following is a comma shaped motile bacteria?
- 1) *Yersinia pestis*
  - 2) *Brucella melitensis*
  - 3) *Vibrio cholera*
  - 4) *Bacillus Anthracis*
24. The resolution of human eye is
- 1) 12 megapixels
  - 2) 50 gigapixes
  - 3) 576 megapixels
  - 4) 500 pixels
25. What do you mean by LTE in relation to telecommunication
- 1) Long term evolution
  - 2) Light term evolution
  - 3) Long term enhancement
  - 4) Light term enhancement
26. Rain gauge is the instrument for determining:
- 1) The depth of precipitation in millimetre over one-meter square area.
  - 2) The depth of precipitation in centimetre over one-meter square area.
  - 3) The depth of precipitation in millimetre over one- inch square area.
  - 4) The depth of precipitation in inches over one-millimetre square area

ENTRANCE EXAMINATION FOR ICMR-JRF - JULY 2018  
EXAM HELD ON 22.07.2018

SET A

27. The Indian government generally spends about \_\_\_\_% of GDP on healthcare
- 12.2
  - 8.2
  - 4.2
  - 1.2
28. The reason for choosing mice for the science experiments are all except:
- They are small
  - They have long life span
  - They don't cause damage when provoked
  - We share many of our genes with mice
29. Biological clock refers to all except:
- Ageing
  - Death clock
  - Circadian rhythm
  - Molecular clock
30. If an engine has a capacity of 1000cc than the capacity of that engine is
- One millilitre
  - One Litre
  - Two Litre
  - Two millilitres
31. The type of Laser used in Laser Printers?
- Semiconductor laser
  - Excimer Laser
  - Dye Laser
  - Gas Laser
32. Aluminium is getting popular worldwide today as a "Green Metal". Which among the following properties of Aluminium makes it a Green Metal?
- Aluminium has been providing a replacement of wood for saving forests and contributes in environment protection
  - Aluminium is a light metal and it is resistant to corrosion
  - Aluminium has high rate of recycling and it can be re-used repeatedly without its quality deteriorating.
  - The lands after the Bauxite mining can be restored very quickly and easily
33. The variance of a data set is 2.25. If we multiply each data value by 2 then the standard deviation will be:
- 1.5
  - 3.5
  - 3
  - 4.5
34. In a normally distributed population, number of the observations falling within the range  $\text{Mean} \pm \text{S.D.}$  is approximately
- 50%
  - 68%
  - 87%
  - 95%
35. For comparing variability in different parameters recorded in different units, the most appropriate measure is
- Range
  - Mean Deviation
  - Standard Deviation
  - Coefficient of Variation
36. Geometric mean of 3, 4 and 18 is
- 8.33
  - 8.0
  - 7.5
  - 6.0
37. If we wish to study the mutual interdependence between systolic blood pressure and blood sugar in a sample of 25 patients, then the type of analysis required to be performed is
- Correlation Analysis
  - Regression Analysis
  - Salt Analysis
  - Analysis of Variance
38. The most appropriate measure of central tendency when data are contaminated by outliers is:
- Mode
  - Arithmetic mean
  - Geometric mean
  - Median



ENTRANCE EXAMINATION FOR ICMR-JRF - JULY 2018  
EXAM HELD ON 22.07.2018

SET A

39. If a distribution is negatively skewed, then  
1) Mean = Median = Mode  
2) Mean < Median < Mode  
3) Mean > Median > Mode  
4) Mean < Mode < Median
40. A random sample of expenditure on 20 patients from PGI and another random sample of expenditure on 25 patients from Fortis Hospital was selected. If our interest was to know whether, on an average, expenditure incurred per patient in the two hospitals was comparable or not, then the appropriate test procedure would be  
1) Z-test  
2) Paired t-test  
3) Unpaired t-test  
4) Kendall's Concordance analysis
41. The mean and median of a data set are 24 and 22, respectively. The mode of the data set will be:  
1) 23  
2) 18  
3) 2  
4) -2
42. The mean, mode and standard deviation of a data set are 10, 13 and 1.5, respectively. The value of coefficient of skewness is:  
1) 2  
2) -3  
3) 3  
4) -2
43. The mean, median, mode of a data set is 135, 133 and 130, respectively. The distribution of the data set is:  
1) symmetric  
2) Negatively skewed  
3) Positively skewed  
4) Normal
44. A pharmaceutical company produces 8 % defective tablets. The expected number of non-defective tablets in a batch of 175 tablets is:  
1) 14  
2) 28  
3) 161  
4) 147
45. An appropriate measure of association between two attributes, each at two levels, is:  
1) Karl Pearson's correlation coefficient  
2) Spearman's rank correlation coefficient  
3) Kendall's tau coefficient  
4) Yule's coefficient of association
46. A test of significance to test the independence of two attributes is:  
1) t-test  
2) F-test  
3) Z-test  
4) Chi-square test
47. A bottle contains 4 underweight, 3 overweight and 5 normal weight tablets. A person draws randomly one tablet from the bottle. The chance of drawn tablet not being under weight is:  
1) .67  
2) .3  
3) .42  
4) .58
48. The appropriate measure of dispersion of an open-end class data is:  
1) Range  
2) Mean deviation  
3) Quartile deviation  
4) Standard deviation
49. ANOVA technique is most appropriate for testing statistical significance of  
1) Mean of single random sample  
2) Difference between means of two independent random samples  
3) Difference between means of two paired samples  
4) Difference between means of more than two (independent or related) samples

50. If p-value of a test-statistic is 0.0023, then our inference would be:
- 1) The findings are statistically non-significant
  - 2) The findings are significant at 5% probability level
  - 3) The findings are significant at 1% probability level
  - 4) The findings are significant at 0.1% probability level



PART II - SECTION-B: LIFE SCIENCE

51. All of the following pathogenic bacteria fulfil Koch's postulates except
- 1) *Treponema pallidum*
  - 2) *Yersinia pestis*
  - 3) *Bacillus anthracis*
  - 4) *Helicobacter pylori*
52. Category A bioterrorism agents are
- 1) *Clostridium botulinum*
  - 2) *Vibrio cholerae*
  - 3) *Pseudomonas aeruginosa*
  - 4) *E. coli*
53. Holding time for sterilization by dry heat at temperature of 160°C is
- 1) 5 minutes
  - 2) 15 minutes
  - 3) 60 minutes
  - 4) 45 minutes
54. Which human infection spreads through urine
- 1) Leptospirosis
  - 2) Legionellosis
  - 3) Plague
  - 4) Diphtheria
55. Louis Pasteur is not associated with
- 1) Introduction of complex media
  - 2) Discovery of rabies vaccine
  - 3) Discovery of phenomenon of phagocytosis
  - 4) Disproving spontaneous regression theory
56. Toxin which blocks the release of acetylcholine is
- 1) Diphtheria toxin
  - 2) Botulinum toxin
  - 3) Staphylococcal toxin
  - 4) Tetanospasmin
57. Which of the following bacterial genome was sequenced first?
- 1) *Escherichia coli*
  - 2) *Streptococcus pneumoniae*
  - 3) *Haemophilus influenzae*
  - 4) *Sporotrichum thermophile*
58. Organic ion necessary in Na-K ATPase
- 1)  $Mg^{+2}$
  - 2)  $PO_4$
  - 3)  $SO_4^{-2}$
  - 4)  $Ca^{+2}$
59. Surfactant:
- 1) Is commonly deficient in term neonates
  - 2) Acts like detergent in water
  - 3) Reduces the amount of negative intrapleural pressure
  - 4) Increases pulmonary compliance
60. Sleep center is located in
- 1) basal ganglia
  - 2) hypothalamus
  - 3) medulla
  - 4) cerebellum
61. Most active form of vitamin D
- 1) Vitamin D3
  - 2) Calcitriol
  - 3) Calcifedial
  - 4) 7-dehydrocholecalciferol
62. Function of the thalamus is-
- 1) Relay centre
  - 2) Arousal
  - 3) Pain perception
  - 4) Pain localisation
63. Angiotensinogen is synthesized in the
- 1) Liver
  - 2) Kidney
  - 3) Lungs
  - 4) Adrenals
64. The organ with maximum  $O_2$  consumption per minute
- 1) Liver
  - 2) Heart
  - 3) Brain
  - 4) Skeletal muscle

65. The enzyme responsible for the synthesis of RNA primer in eukaryotes
- 1) DNA polymerase alpha
  - 2) DNA polymerase beta
  - 3) DNA polymerase gamma
  - 4) Topoisomerase
66. Which of the following does not have phosphate?
- 1) A nucleoside
  - 2) A nucleotide
  - 3) DNA
  - 4) RNA
67. Which of the following is a purine?
- 1) Adenine
  - 2) Thymine
  - 3) Uracil
  - 4) Cytosine
68. 'RNAi' stands for which of the following?
- 1) RNA inducer.
  - 2) RNA insertion.
  - 3) RNA interference.
  - 4) RNA intron.
69. Which of the following is not required for a PCR reaction?
- 1) A DNA polymerase
  - 2) Dideoxy-dNTPs
  - 3) Primers
  - 4) Template DNA
70. Which of the following is a non-natural amino acid?
- 1) Arginine
  - 2)  $\beta$ -alanine
  - 3) Proline
  - 4) Tryptophan
71. Which of the following amino acid found abundantly in collagen protein
- 1) Lysine
  - 2) Alanine
  - 3) Glycine
  - 4) Leucine
72. Alu sequences are
- 1) Promoter sequence
  - 2) Repetitive DNA sequence
  - 3) Transcription initiation sequence
  - 4) Telomeric sequence
73. Difference between a DNA and RNA
- 1) Sugar and phosphate
  - 2) Sugar and purines
  - 3) Purines and phosphate
  - 4) Sugar and pyrimidines
74. Inhibition of succinic dehydrogenase by malonic acid is
- 1) Non-competitive inhibition
  - 2) Competitive inhibition
  - 3) Un-competitive inhibition
  - 4) Feedback inhibition
75. How many genes are there in E. coli K-12 genome
- 1) 4377
  - 2) 5467
  - 3) 2498
  - 4) 3000
76. Genes which are active all the time in cell are known as
- 1) Cellular luxury genes
  - 2) Metabolic genes
  - 3) Housekeeping genes
  - 4) Control genes
77. What is the key event that leads to association of a protein with a proteasome?
- 1) Phosphorylation
  - 2) Acetylation
  - 3) Ubiquitination
  - 4) Methylation
78. Which of these restriction enzymes produce blunt ends?
- 1) Sall
  - 2) EcoRV
  - 3) XhoI
  - 4) HindIII
79. Autonomously replicating sequence (ARS) is a feature of
- 1) E. coli vector
  - 2) Phage vector
  - 3) Yeast vector
  - 4) Plasmid vector



ENTRANCE EXAMINATION FOR ICMR-JRF - JULY 2018  
EXAM HELD ON 22.07.2018

SET A

80. What is not common between an expression vector and cloning vector
- 1) Origin of replication
  - 2) Restriction sites
  - 3) Marker genes
  - 4) Promoter
81. From prenatal life to puberty the primary oocyte remains in
- 1) Prophase
  - 2) Metaphase
  - 3) Anaphase
  - 4) Telophase
82. Total time taken from the beginning of meiosis to the formation of mature spermatozoa is about
- 1) 64 days
  - 2) 74 days
  - 3) 65 days
  - 4) 75 days
83. Which of the chromosomal abnormality is responsible for Edward's syndrome?
- 1) Trisomy-18
  - 2) Trisomy-21
  - 3) Trisomy-8
  - 4) Trisomy-13
84. Transcription is the process
- 1) By which information is transferred from DNA to the transfer RNA
  - 2) By which information is transferred from RNA to the DNA
  - 3) By which information is transferred from nuclear DNA to the mitochondrial DNA
  - 4) By which information is transferred from DNA to the messenger RNA
85. What is cytokinesis
- 1) Chromosome condensation
  - 2) Spindle formation
  - 3) Division of cytoplasm
  - 4) Separation of chromatids
86. A cross in which parents differ in a single pair of contrasting character is called
- 1) tetrahybrid cross
  - 2) dihybrid cross
  - 3) monohybrid cross
  - 4) trihybrid cross
87. Phenotype of an organism is a result of
- 1) mutations and linkages
  - 2) environmental changes and sexual dimorphism
  - 3) genotype and environmental interactions
  - 4) cytoplasmic effects and nutrition
88. The total number of phalanges present in each hand are
- 1) 12
  - 2) 15
  - 3) 14
  - 4) 24
89. The movement of the sole of the foot inward or medially is -----
- 1) inversion
  - 2) eversion
  - 3) pronation
  - 4) supination.
90. Shoulder joint is an example of
- 1) primary cartilaginous joint
  - 2) secondary cartilaginous joint
  - 3) ball and socket joint
  - 4) syndesmosis
91. Hormone insulin of Pancreas is secreted by
- 1) alpha cells
  - 2) pancreatic acinus
  - 3) beta cells
  - 4) gamma cells
92. The primary sex organ in the male is
- 1) testes
  - 2) penis
  - 3) seminal vesicles
  - 4) prostate
93. Valency of carbon is
- 1) One
  - 2) Two
  - 3) Three
  - 4) Four
94. Coenzyme A is a derivative of
- 1) Thiamine
  - 2) Riboflavin
  - 3) Pantothenate
  - 4) Niacin

95. Which of the following reduces oxygen to water?
- 1) Q-cytochrome c reductase
  - 2) ATP synthase
  - 3) TCA cycle
  - 4) Cytochrome c oxidase
96. Water transportation across lipid bilayers of the cell is probably mediated by
- 1) Hydrotransferrins
  - 2) Aquaporins
  - 3) Hydroporins
  - 4) Aquatransferrins
97. Which of the following is wrong about Hemoglobin
- 1) It displays quaternary structure
  - 2) It binds oxygen
  - 3) It contains Heme moiety
  - 4) It has proteolytic activity
98. Acid phosphatase is a marker of
- 1) Plasma membrane
  - 2) Lysosome
  - 3) Mitochondria
  - 4) Endoplasmic reticulum
99. The amino acid involved in the synthesis of nitric oxide is
- 1) Alanine
  - 2) Asparagine
  - 3) Aspartic acid
  - 4) Arginine
100. What does uncompetitive inhibition in the enzyme-substrate reaction tells us
- 1) Inhibitor binds already formed enzyme-substrate complex
  - 2) Inhibitor binds to another site than the active site of enzyme
  - 3) Inhibitor competes with the substrate in binding the active site of enzyme
  - 4) Inhibitor does not participate in the enzyme-substrate reaction
101. Which among the following absorbs more UV radiation at 260 nm
- 1) Double stranded DNA
  - 2) Single stranded DNA
  - 3) Single stranded RNA
  - 4) Protein complex
102. The main role of an enzyme in a chemical reaction is to
- 1) Reduce the energy of a reaction
  - 2) Increase the energy of a reaction
  - 3) Reaction goes to completion without changing energy
  - 4) Reduce the substrate binding characteristics
103. The energy producing groups in the Adenosine triphosphate
- 1) Purine groups
  - 2) Sugar groups
  - 3) Phosphate groups
  - 4) Nitrogen groups
104. The cellular organelle with acidic pH
- 1) Nucleus
  - 2) Mitochondria
  - 3) Golgi complex
  - 4) Lysosomes
105. The tertiary structure of protein is governed mainly by the
- 1) Intramolecular interactions of the side groups of polypeptide chains
  - 2) Intermolecular interactions of the polypeptide chains
  - 3) Hydrogen bonding
  - 4) Vanderwalls interactions
106. Many scientists are very interested in studying mitochondrial DNA because it
- 1) is only present in vertebrates closely related to humans.
  - 2) replicates by synthesizing an mRNA that then acts as a DNA polymerase.
  - 3) contains over 50% of the genes in the human genome.
  - 4) mutates rapidly and allows us to study evolution over short time scales.
107. Which of the following is a nucleotide sequence data base?
- 1) EMBL
  - 2) SWISS PROT
  - 3) PROSITE
  - 4) TREMBL
108. Which of the following organisms has the largest genome size?
- 1) *Mycoplasma genitalium*
  - 2) *Escherichia coli*
  - 3) *Amoeba dubia*
  - 4) *Homo sapiens*



109. Sequencing 'depth' is also known by another term:
- 1) Amount
  - 2) Coverage
  - 3) Trend
  - 4) Consensus
110. Taxonomy using 16s rRNA was defined by:
- 1) Watson
  - 2) Huckley
  - 3) Woese
  - 4) Crick
111. A cDNA library:
- 1) Can also be called an expressed sequence tag (EST) library.
  - 2) Is Compulsory DNA library
  - 3) Part of Protein domain
  - 4) Only found in plants
112. Which of these might be an advantage to genetic testing of individuals via microarrays?
- 1) Many different potential mutations in a single gene could be tested at once.
  - 2) Expression patterns of many different genes can be analyzed simultaneously.
  - 3) Microarray analysis can provide information on sequence lengths of particular genes.
  - 4) A and B
113. Passive immunity is obtained through injecting
- 1) Antibodies
  - 2) Vaccine
  - 3) Antibiotic
  - 4) Antigen
114. Secondary immune response is generated due to
- 1) Naïve B cells
  - 2) Naïve T cells
  - 3) NK cells
  - 4) Memory cells
115. Which of the following vaccines does not provide life time protection?
- 1) Polio
  - 2) DPT
  - 3) Tetanus
  - 4) Small Pox
116. Newborns
- 1) Receive Maternal B cells
  - 2) Respond to antigens as good as adults
  - 3) Have virtually a fully complement of maternal IgG antibodies
  - 4) Receive IgM antibodies from mother through placental transfer
117. The blood group with anti-A antibodies and anti-B antibodies is
- 1) O
  - 2) A
  - 3) AB
  - 4) B
118. What is the term used to describe white blood cell migrating towards bacteria?
- 1) Zeosis
  - 2) Chemotaxis
  - 3) Phototaxis
  - 4) phagocytosis
119. What is the mechanism that white blood cells used to kill bacteria, fungi and other invading organisms?
- 1) Asphyxiation
  - 2) oxidative activity
  - 3) fright
  - 4) drowning
120. Which drug causes Gynecomastia, except?
- 1) Cimetidine
  - 2) Fibrates
  - 3) Spironolactone
  - 4) Digitalis
121. What does graph which contains substrate concentration verses velocity curve indicate?
- 1) Zero order kinetics
  - 2) Michelis-Mentons equation
  - 3) Inverse relation
  - 4) All of the above
122. All are the essential roles of pharmacovigilance programme, EXCEPT
- 1) Detection of ADRs
  - 2) Treatment of ADRs
  - 3) Assessment of ADRs
  - 4) Protection of ADRs

ENTRANCE EXAMINATION FOR ICMR-JRF - JULY 2018  
EXAM HELD ON 22.07.2018

SET A

123. All have the least abuse liability, EXCEPT  
1) Caffeine  
2) Benzodiazepines  
3) Cocaine  
4) Aspirin
124. The ratio of LD<sub>50</sub> to ED<sub>50</sub> is  
1) Therapeutic Window  
2) Efficacy  
3) Therapeutic Index  
4) Potency
125. Serum level of a drug is important to monitor, if patients is on  
1) Haloperidol  
2) Lithium  
3) Diazepam  
4) Acetazolamide
126. Which of the following is an anticoagulant?  
1) Amoxycillin  
2) Diltiazem  
3) Heparin  
4) Epinephrine
127. Drugs that counteract the effects of other drugs, for e.g. in case of poisonings, are known as:  
1) Antibodies  
2) Monoclonal antibodies  
3) Antidotes  
4) Vaccines
128. Some oral medications are designed to prevent their dissolution or disintegration in the gastric environment. They are known as:  
1) Enteric-coated formulations  
2) Sustained-release formulations  
3) Nano-formulations  
4) Depot-formulations
129. Teratogenesis refers to  
1) Breeding turtles  
2) Foetal abnormalities  
3) Keratinization of skin  
4) Treatment of cancer
130. Acetabulum is part of  
1) Sternum  
2) Skull  
3) Pelvic girdle  
4) Pectoral girdle
131. Uropygial gland is associated with  
1) Shark  
2) Lizard  
3) Pigeon  
4) Frog
132. Which of the scales are used for fish age and growth studies?  
1) Cycloid  
2) Placoid  
3) Ganoid  
4) Rhomboid
133. Halteres are modified  
1) Forewings  
2) Scales  
3) Hindwings  
4) Antennae
134. Melanocytes are located in  
1) Stratum germinativum  
2) Stratum corneum  
3) Stratum lucidum  
4) Dermis
135. Genetic engineering in crop plants is used for  
1) Crop improvement  
2) Plant propagation  
3) Crop harvesting  
4) Recycling
136. Genetically engineered crop being used in India  
1) Cotton  
2) Rice  
3) Wheat  
4) Potato
137. What is Organogenesis?  
1) formation of callus tissue  
2) formation of root and shoots on callus tissue  
3) genesis of organs  
4) Flowering



138. *Agrobacterium tumefaciens* is a
- 1) gram (+) bacteria
  - 2) gram (-) bacteria
  - 3) a fungus
  - 4) a yeast
139. During photosynthesis, PS II absorbs energy at or below:
- 1) 700nm
  - 2) 670nm
  - 3) 680nm
  - 4) 780nm
140. The Earth day is celebrated on:
- 1) 22nd March
  - 2) 5th June
  - 3) 22nd April
  - 4) 8th May
141. Substitute of Chloro Fluoro Carbon (CFCs) used in refrigerators is:
- 1) Hydrofluorocarbon
  - 2) Methane
  - 3) Helium
  - 4) Hydrochlorofluorocarbon
142. What changes in the plant indicate the toxic effects of SO<sub>2</sub> ?
- 1) Falling of leaves
  - 2) Drooping of leaves
  - 3) Darkening of leaves
  - 4) Bleaching of leaves
143. Extinction of Dodo was mainly due to:
- 1) Pollution
  - 2) Introduction of pig
  - 3) Hunting
  - 4) Habitat Destruction
144. Which of the following plant/s is commonly used for biodiesel production in India?
- 1) *Jatropha*
  - 2) *Calotropis*
  - 3) Bamboo
  - 4) Both (2) & (3)
145. Which of the following is a bio-remedial technique?
- 1) Composting
  - 2) Oxidation
  - 3) Reduction
  - 4) Sedimentation
146. Rumen is present in which of the following animals
- 1) Dog
  - 2) Cow
  - 3) Horse
  - 4) Poultry
147. White leghorn is a breed of
- 1) Pig
  - 2) Dog
  - 3) Horse
  - 4) Poultry
148. Principal protein in milk is
- 1) Albumin
  - 2) Lactalbumin
  - 3) Casein
  - 4) Globulin
149. A sheep is called
- 1) Bovine
  - 2) Ovine
  - 3) Canine
  - 4) Swine
150. Very muscular organ used to grind food in birds is called the
- 1) Crop
  - 2) Gizzard
  - 3) Proventriculus
  - 4) Beak

# CRASH COURSES

## Enrol for Ongoing CSIR NET Crash Courses

### CSIR NET General Aptitude Course 2021

Complete Study Plan to Boost the CSIR NET Score





#### What to Expect?

- Live Classes
- Quizzes
- Doubt Sessions
- PYQ Discussion
- Mock Tests
- Chapter-wise Tests
- Revision Tests
- Expert faculty

#### Course Language

- Bilingual

#### This Course Includes

-  **80+** Live Classes
-  **1000+** Practice Questions
-  Study Notes & Formula Sheets
-  **10+** Mock Tests

### CSIR NET Life Science 2021 Crash Course

Revision Plan to clear the exam





#### What to Expect?

- Live Classes
- Quizzes
- Doubt Sessions
- PYQ Discussion

#### Course Language

- English

#### This Course Includes

-  **200+** Live Classes
-  **3000+** Practice Questions
-  **200+** Study PDFs
-  **10+** Mock Tests

### CSIR NET Chemical Science 2021 Crash Course

Complete Revision Plan to ACE the Exam





#### What to Expect?

- Live Classes
- Quizzes
- Doubt Sessions
- PYQ Discussion
- Mock Tests
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#### Course Language

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