

SAMPLE QUESTION PAPER

INSTITUTE NAME & LOGO

NEET – EXAM YEAR

Bio : Full Portion Paper

Test Number	Test Booklet No.
Write/Check this Code on your Answer Sheet	Write this number on your Answer Sheet

: IMPORTANT INSTRUCTIONS :

01. Immediately fill in the particulars on this page of the Test Booklet with **Blue/Black Ball point Pen. Use of pencil is strictly prohibited**
02. The Answer Sheet is kept inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars carefully.
03. The test is of **90 Min.** duration
04. The Test Booklet consists of **90** questions. The maximum marks are **360**. All the Ques. consists of **FOUR (4)** marks each.
05. **BIOLOGY- 90 Ques. (360 marks).**
06. Candidates will be awarded marks as stated above in Instruction No.4 for correct response of each question. **ONE (1)** mark will be deducted for indicating incorrect response of each question. **No deduction** from the total score will be made **if no response** is indicated for an item in the Answer Sheet.
07. Use **Blue/Black Ball Point Pen only** for writing particulars/markings responses on **Side-1** and **Side-2** of the Answer Sheet. **Use of pencil is strictly prohibited.**
08. No candidate is allowed to carry any textual material, printed or written, bits of papers, pager, mobile phone, any electronic device, etc., except the Admit Card inside the examination hall/room.
09. Rough work is to be done on the space provided for this purpose in the Test Booklet only. This space is given at the bottom of each page of the booklet.
10. On completion of the test, the candidate must hand over the Answer Sheet to the Invigilator on duty in the Room/Hall. **However, the candidates are allowed to take away this Test Booklet with them.**
11. The CODE for this Booklet is A. Make Sure that the CODE printed on **Side-2** of the Answer Sheet is the same as that on this booklet. In case of discrepancy, the candidate should immediately report the matter to the Invigilator for replacement of both the Test Booklet and the Answer Sheet.
12. Do not fold or make any stray marks on the Answer Sheet.
13. No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.

Name of the Candidate : _____

Roll Number : In figures :

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In words : _____

Examination Centre Number :

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Name of Examination Centre (in Capital letters) : _____

Candidate's Signature : _____

Invigilator's Signature : _____

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Marks : 360

91) Smooth muscles are not

- 1) Spindle shaped
- 2) Multinucleated
- 3) Very simple in structure
- 4) Under control of autonomic nervous system

92) The cells in embryo sac which act as haustoria are

- 1) Antipodal cells
- 2) Synergids
- 3) Egg and synergids
- 4) Antipodals and synergids

93) Which of the following wavelength of light is absorbed maximum for photosynthesis?

- 1) Yellow light
- 2) Blue light
- 3) Green light
- 4) Red light

94) Gene library refers to

- 1) Photographs of DNA fragments of a book
- 2) DNA fragments maintained on agarose gel
- 3) DNA sequence information maintained in data bank
- 4) DNA fragments of a genome maintained by cloning in cultured cells

95) The nucleic acids are broken into nucleotides by _____ enzymes.

- 1) Nucleases
- 2) Amylases
- 3) Lipases
- 4) Proteases

96) Porous wood contains mainly

- 1) Fibres
- 2) Vessels
- 3) Solid secretions
- 4) Trachieds

97) In ornithine cycle, which of following wastes are removed from the blood?

- 1) Ammonia and urea
- 2) CO₂ and urea
- 3) CO₂ and ammonia
- 4) Urea and urine

98) What is hormone?

- 1) Enzyme
- 2) Glandular secretion
- 3) Chemical messenger
- 4) Organic complex substance

99) Which of the following can cause atelectasis?

- 1) Obstruction of a major bronchus
- 2) Blockage of small bronchi with mucous
- 3) Lack of surfactant in fluids lining the alveoli
- 4) All the above

100) Pigments present in Ulothrix are

- 1) Chl. a, Chl b, carotenes and xanthophylls
- 2) Chl. a, Chl b and phycocyanin
- 3) Chl a, Chl c, phycocyanin and fucoxanthin
- 4) Chl a and fucoxanthin

101) Our crops suffer from many diseases. Indicate the disease caused by virus

- 1) Potato mosaic
- 2) Citrus canker
- 3) Leaf spot of cotton
- 4) Brown rot of potato

102) Transpiration increase with increase in

- 1) Humidity
- 2) Temperature
- 3) Soil moisture
- 4) Minerals

103) Which of the following statements is incorrect?

- 1) Plants absorb excess quantity of water
- 2) Plants absorb one thing at a time either water or inorganic salt
- 3) Water and salts are taken in simultaneously by root hairs
- 4) All of the above

104) Which one of the following pairs is correctly matched?

- 1) Metaphase I-Pairing of maternal and paternal homologous chromosomes takes place
- 2) Anaphase I-Homologous chromosomes are separated
- 3) Interphase-A nuclear envelope encloses each haploid set of chromosomes
- 4) Prophase I-Non-homologous chromosomes are separated

105) Bryophytes differ from pteridophytes in

- 1) Lack of vascular tissue
- 2) Archegonia
- 3) An independent gametophyte
- 4) Swimming antherozoids

106) With which of the following fatty acid value of R.Q. is one?

- 1) Acetic acid
- 2) Oleic acid
- 3) Palmitic acid
- 4) Stearic acid

107) The parallel layering of membranes in chloroplast is suited for

- 1) Maximum exposure of enzymes
- 2) Maximum light absorption
- 3) Minimum light absorption so that the cells can maintain their temperature
- 4) All the above

108) Frog is called amphibian because

- 1) It has got lungs
- 2) It has no tail
- 3) Its young one, tadpole is aquatic in its habitat
- 4) It lives both on land and water

109) Paralysis of jaw muscles is due to loss of function of which cranial nerve

- 1) III
- 2) V
- 3) VII
- 4) X

110) Which is not a stem modification?

- 1) Corm of Colocasia
- 2) Rhizome of Ginger
- 3) Pitcher of Nepenthes
- 4) Tuber of Potato

111) Food stored in Rhizopus / Mucor as

- 1) Protein and starch
- 2) Glycogen and oil
- 3) Sugar and oil
- 4) Protein and steriods

112) The distance or length of the myofibril between two adjacent Z-bands is called

- 1) Sarcomere
- 2) Sarcolemma
- 3) Sarcoplasm
- 4) Fibril

113) The charcoal culture experiment is better than water culture experiment because

- 1) Problem of aeration is removed
- 2) Plants get support
- 3) Charcoal is an inert substance
- 4) All the above

114) Cell wall is absent in

- 1) Mycoplasma
- 2) Gametes
- 3) Amoeba
- 4) All of these

115) The longest gestation period is found in

- 1) Elephant
- 2) Gorilla
- 3) Man
- 4) Chimpanzee

116) Father of palaeontology is

- 1) George Cuvier
- 2) Leonardo da Vinci
- 3) Herbert Spencer
- 4) Charles Darwin

117) Where are eight blind hepatic caeca present in Cockroach?

- 1) With crop
- 2) At the junction of midgut and hindgut
- 3) at the midgut
- 4) at the foregut.

118) Fat is present in large quantities in the tissues of which of the following

- 1) Tuber of potato
- 2) Cotton fibre
- 3) Coconut endosperm
- 4) Embryo of pea

119) Study of cause of disease shall come under

- 1) Zymology
- 2) Ethology
- 3) Pathology
- 4) Etiology

120) Pear-shaped head, sharply separated from rest of the body and covered with small scales is a feature of

- 1) Pythons
- 2) Vipers
- 3) Cobras
- 4) Kraits

121) Mark the incorrect

- 1) Hormone produced in thyroid is T - 4
- 2) Hormone produced by adenohypophysis is FSH
- 3) Hormone synthesized by neurohypophysis is ADH
- 4) Hormone produced in placenta is URF

122) The energy required during transmission of impulse is provided by

- 1) Brain
- 2) Nerve fibre
- 3) Stimulating agent
- 4) Liver

123) Pleiotrophy is a condition in which a single gene

- 1) Controls more than one phenotype
- 2) Controls only one phenotype
- 3) Does not control any phenotype
- 4) None of these

124) The testes of a great majority of mammals are typically enclosed in an extra abdominal sac, the scrotum. The temperature inside the scrotum is lower than that in the abdomen. What will happen if the temperature of the scrotum is artificially maintained to the level of abdominal temperature

- 1) The germinal epithelium of the testes will divide faster, thus producing more sperms
- 2) The germinal epithelium will produce a large quantity of androgen secretion
- 3) The germinal epithelium of the testes will degenerate, resulting in sterility
- 4) The germinal epithelium will carry out normal spermatogenesis

125) Conjoint, collateral and closed vascular bundle is found in

- 1) Monocot stem
- 2) Monocot root
- 3) Dicot root
- 4) Dicot stem

126) The rise of blood sugar above the normal level is known as

- 1) Hyperglycemia
- 2) Glucosuria
- 3) Hypoglycemia
- 4) Glycolysis

127) Deadly poisonous mushroom is

- 1) Amanita
- 2) Agaricus
- 3) Pleurotus
- 4) Volvariella

128) Membrane protein

- 1) Does all the above works
- 2) Helps in cell recognition
- 3) Works as recipient for transportation
- 4) Works as recipient for informal moelcules

129) In lag phase, growth is

- 1) Slowest
- 2) Intermediate
- 3) Fastest
- 4) No growth at all

130) The main region of the alimentary canal in which digested food is absorbed

- 1) The stomach
- 2) The oesophagus
- 3) The small intestine
- 4) The caecum and appendix

131) Which of the following process is called springization or springification?

- 1) Pollination
- 2) Fertilization
- 3) Vernalization
- 4) None of the above

132) In forest ecosystem, pyramid of number is

- 1) Inverted
- 2) Upright
- 3) Any of the two
- 4) None of the above

133) Fall in blood pressure due to loss of blood is soon restored because the

- 1) Blood vessels dilate
- 2) Heart beat is decreased
- 3) Heart beat is increased
- 4) Blood cells decrease in number

134) Respiration occurs

- 1) Only in non-green cells both in light and dark
- 2) Only in non-green cells in light
- 3) In all living cells both in light and dark
- 4) In all living cells only in light

135) Antixerophthalmia vitamin is

- 1) Vitamin A
- 2) Vitamin D
- 3) Vitamin K
- 4) Vitamin E

136) Function of human spleen is to

- 1) Secrete hormone
- 2) Stimulate heart
- 3) Control the pulse rate
- 4) Control blood volume

137) Trophozoites and schizonts of malarial parasite cycle stages are developed in

- 1) gut of mosquito
- 2) blood of human
- 3) liver of human
- 4) RBC of human

138) Which one of the following is an example of glycoprotein

- 1) Lecithin
- 2) Mucin
- 3) Haemoglobin
- 4) Casein

139) That the cell membrane is selectively permeable can be best deduced by

- 1) The entry of mineral salts from the root hair
- 2) The entry of water from root hair
- 3) Both together
- 4) The rise of sap in plants

140) Statement 1 : Funaria multiplied vegetatively by means of bulbils.

Statement 2 : Bulbils and tubers are two different structures.

- 1) Both the statement 1 and the statement 2 are true and the statement 2 is a correct explanation of the statement 1
- 2) Both the statement 1 and statement 2 are true but the statement 2 is not a correct explanation of the statement 1
- 3) Both the statement 1 and statement 2 are false
- 4) The statement 1 is true but the statement 2 is false

141) Phyllode is found in

- 1) Gloriosa
- 2) Clematis
- 3) Acacia
- 4) Dischidia

142) Which of the following exerts Richmond-Lang effect i.e. prevents loss of chlorophyll?

- 1) Kinetin/BA
- 2) Light
- 3) Auxin/AA
- 4) Gibberellin/Prophyrin

143) In man the length of alimentary canal is about

- 1) 32 feet
- 2) 24 feet
- 3) 16 feet
- 4) 8 feet

144) In F_2 generation, a phenotypic ratio of 1:1:1:1 exhibits

- 1) Dihybrid test cross
- 2) Lethality
- 3) Monohybrid test cross
- 4) Back cross

145) The possibility of three letter genetic code was pointed out by

- 1) Gamow
- 2) Khorana
- 3) Nirenberg
- 4) Holley

146) The connective tissue that connects the skin to the underlying structures is

- 1) Areolar tissue
- 2) Serous membrane
- 3) Dense connective tissue
- 4) Reticular tissue

147) In an ecosystem

- 1) Cycling of energy is an independent process
- 2) Cycling of energy and nutrients is a coupled process
- 3) Movement of energy is unidirectional
- 4) Macro and micronutrients cycle at the same pace

148) Deforestation has an alarming effect on

- 1) Sunlight
- 2) Weed control
- 3) Increase in grazing area
- 4) Soil erosion or desertification of habitat

149) Maize stem borers do not cause damage to maize plants with

- 1) Low aspartic acid, high nitrogen and high sugar content.
- 2) Low aspartic acid, low nitrogen and low sugar content
- 3) Low aspartic acid, low nitrogen and high sugar content
- 4) High aspartic acid, low nitrogen and low sugar content.

150) Advantages of large scale production of SCP is/are

- 1) More production in lesser time
- 2) High protein level in cells of microbial organisms
- 3) Low production cost/less time consuming process
- 4) All of these

151) Causative agent of syphilis is _____.

- 1) Neisseria
- 2) Trichomonas vaginalis
- 3) HIV
- 4) Treponema pallidum

152) The cell that divides to form two male nuclei in angiosperms is

- 1) Tube cell
- 2) Generative cell
- 3) Vegetative cell
- 4) Antheridial cell

153) The process of photo phosphorylation was discovered by

- 1) Calvin 2) Arnon
- 3) Warburg 4) Priestley

154) Vascular bundles are derived from (originate from)

- 1) Dermatogen
- 2) Cortex
- 3) Periderm
- 4) Endogenous tissue the pro cambial strand or plerome

155) Non-protein part of an enzyme is known as

- 1) Coenzyme 2) Holoenzyme
- 3) Apoenzyme 4) All the above

156) Which of the following process may be toxic to plants?

- 1) Photosynthesis
- 2) Photolysis of water
- 3) Aerobic respiration
- 4) Anaerobic respiration

157) The replacement of two kingdoms grouping by five kingdom classification was proposed in the year

- 1) 1758 2) 1859
- 3) 1969 4) 1919

158) In Albugo the food reserve is mostly

- 1) Volutin granules
- 2) Glycogen
- 3) Protein granules
- 4) Fat

159) Soil erosion can be prevented by

- 1) Afforestation
- 2) Overgrazing
- 3) Removal of vegetation
- 4) Increasing birds population

160) A general good personal hygiene in life style can prevent

- 1) cancer 2) amoebiasis
- 3) arthritis 4) tuberculosis

161) Which of the following is associated with genetic engineering?

- 1) Mutations 2) Hybrid vigour
- 3) Plastids 4) Plasmids

162) In Dahlia, the roots are

- 1) Stilt 2) Fibrous
- 3) Moniliform 4) Fasciculated tuberous

163) National Environmental Engineering Research Institute (NEERI) is situated at

- 1) New Delhi 2) Nagpur
- 3) Baroda 4) Bhopal

164) Genetically identical progeny is produced when an individual

- 1) Practices self-fertilization
- 2) Produces identical gametes
- 3) Practices by breeding without meiosis
- 4) Practices reproduction

165) Blood leaving liver and moving to heart will have more concentration of

- 1) Bile 2) Urea
- 3) Amino acid 4) Glycogen

166) Penicillin inhibits bacterial multiplication because it

- 1) Checks DNA synthesis
- 2) Checks RNA synthesis
- 3) Inhibits cell wall formation
- 4) Destroys chromatin

167) Which of the following is CO₂ acceptor in C₄ plants?

- 1) Phosphoenol pyruvate (PEP)
- 2) Ribulose 1, 5 diphosphate (RuDP)
- 3) Phosphoglyceric acid (PGA)
- 4) Oxaloacetic acid (OAA)

168) What is meant by monocistronic mRNA?

- 1) Which has only one codon
- 2) Which can combine with only one type of tRNA
- 3) Which has codons for synthesizing only one protein molecule
- 4) Both (2) and (3)

169) Blastodisc or germinal disc refers to the protoplasm of egg, this is restricted to small area in

- 1) Amphibian egg
- 2) Avian egg
- 3) Mammalian egg
- 4) Ascidian egg

170) In the diplotene stage

- 1) Chromosomes are thin and long
- 2) Chromosomes have reached poles
- 3) Homologous chromosomes undergo crossing over and chiasmata are seen
- 4) Bivalents become very short and chiasmata move towards ends of chromosomes

171) Acacia arabica is a

- 1) Hydrophyte 2) Mesophyte
- 3) Xerophyte 4) Halophyte

172) What is the major cause of diminishing wild life number?

- 1) Falling of trees
- 2) Cannibalism
- 3) Paucity of drinking water
- 4) Habitat destruction

173) Cyanosis is caused by

- 1) CO₂ 2) Copper
- 3) Chromium 4) Nitrate concentration

174) What is true about haemoglobin?

- 1) It is present in the dissolved state in blood plasma in earthworm
- 2) It is a dipeptide and present in red blood corpuscles in blood warm
- 3) It is a dipeptide in mammals and localised in red blood corpuscles.
- 4) It is present in dissolved state in blood plasma in scorpions

175) Phallangeal formula of hand of man is

- 1) 2, 1, 1, 1, 1 2) 1, 2, 2, 2, 2
- 3) 2, 3, 3, 3, 3 4) 2, 3, 3, 2, 2

176) The pelvic girdle of birds is attached to a complex structure formed by the fusion of last thoracic, all lumbar and first five caudal vertebra. This structure is called

- 1) Synsacrum 2) Symphysis
- 3) Sympelvis 4) Synkaryon

177) Carbon monoxide (CO) is harmful to man because

- 1) It generates excess CO₂
- 2) It forms carbolic acid
- 3) It is carcinogenic
- 4) It competes with O₂ for haemoglobin

178) Antigen producing gene is an example for

- 1) lethal genes 2) complimentary genes
- 3) multiple alleles 4) co-dominant genes

179) Major pollution causing agent is

- 1) Man
- 2) Hydrocarbon gases
- 3) Animals
- 4) None of the above

180) In mammalian ear, a membranous structure which separate the scala vestibuli and scala media is

- 1) Basilar membrane
- 2) Reissner's membrane
- 3) Tectorial membrane
- 4) Autolith membrane