

**47**  
YEARS  
OF EXCELLENCE



**NARAYANA**  
IIT-JEE/NEET/FOUNDATION

# NEET (UG) 2026

**BIOLOGY**  
**PAPER CODE - 12**

# NARAYANA NATIONAL RESULT

## MEDICAL MARVELS OF NARAYANA IN NEET 2025 ALL INDIA OPEN CATEGORY RANKS

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nPrep

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KESHAV MITTAL  
nPrep

AIR **7**



AASHI SINGH  
nPrep

AIR **12**



SOMYA SHARMA  
Classroom Student

AIR **14**



K JEEVAN SAI KUMAR  
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AIR **18**



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### ALL INDIA OPEN CATEGORY RANKS IN TOP 100

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**35**



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nPrep

AIR

**47**



Rijul Jain  
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AIR

**49**



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**52**



Aditya Yadav  
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**59**



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**66**



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**70**



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**71**



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**75**



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**80**



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**87**



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**93**



Siddh Vimalbhai Vora  
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**94**



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**95**



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**6** Students  
in Top 20

**22** Students  
in Top 100

**94** Students  
in Top 1000



**NARAYANA**  
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**NEET(UG) – 2026**

**BIOLOGY**

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# BIOLOGY

91. "The Evil Quartet" of biodiversity loss includes which of the following?
- (1) Over-exploitation: Alien species invasions: Air pollution; Co-extinctions
  - (2) Habitat loss and fragmentation; over-exploitation: Alien species invasions; Co-extinctions
  - (3) Habitat loss and fragmentation; Air pollution; Water pollution; Co-extinctions
  - (4) Over-exploitation; Alien species invasions; Soil pollution; Co-extinctions

Ans. 2

92. Which one of the following is the site for active ribosomal RNA synthesis?
- (1) Nucleolus
  - (2) Chromatin
  - (3) Centrosome
  - (4) Kinetochore

Ans. 1

93. Match List I with List II:

**List I**

**(Phase of cell cycle)**

- A. G<sub>1</sub> phase
- B. S phase
- C. G<sub>2</sub> phase
- D. M phase

**List II**

**(Activity)**

- I. Actual cell division occurs
- II. Cell is metabolically active and continuously grows but does not replicate its DNA
- III. Synthesis of DNA occurs and the amount of DNA per cell doubles
- IV. Proteins are synthesized while cell growth continues

Choose the correct answer from the options given below:

- (1) A-II, B-III, C-IV, D-I
- (2) A-III, B-IV, C-I, D-II
- (3) A-I, B-II, C-III, D-IV
- (4) A-IV, B-I, C-II, D-III

Ans. 1

94. Match List I with List II:

**List I**

- A. Productivity
- B. Net primary productivity
- C. Gross primary productivity
- D. Secondary productivity

**List II**

- I. Gross primary productivity minus respiration losses
- II. Rate of formation of new organic matter by consumers
- III. Rate of biomass production
- IV. Rate of production of organic matter during photosynthesis

Choose the correct answer from the options given below:

- (1) A-I, B-II, C-III, D-IV
- (2) A-III, B-I, C-IV, D-II
- (3) A-III, B-I, C-II, D-IV
- (4) A-I, B-III, C-IV, D-II

Ans. 2

95. Which of the following statements are correct?
- A. The Amazon rainforest being cut and cleared for cultivation of soyabeans is an example of habitat loss.
  - B. Steller's sea cow and passenger pigeon became extinct due to over-exploitation by humans.
  - C. The Nile perch introduced into Lake Victoria in East Africa helped in population growth of cichlid fish in the lake.
  - D. Water hyacinth is an invasive species.
  - E. When a species becomes extinct, the plant and animal species associated with it are not affected.

Choose the correct answer from the options given below:

- (1) B, C and D only
- (2) A, B and D only
- (3) A, B and E only
- (4) C, D and E only

Ans. 2

96. Identify the correct statements about biomolecules.

- A. Lipids are generally water soluble.
- B. Proteins are polypeptides.
- C. Polysaccharides are long chains of sugars.
- D. Adenine and guanine are substituted pyrimidines.
- E. Almost all enzymes are proteins.

Choose the correct answer from the options given below:

- (1) C, D and E only
- (2) B, C and E only
- (3) B, D and E only
- (4) A, B and C only

Ans. 2

97. How many ATP and NADPH molecules are required to make one molecule of glucose through the Calvin pathway?

- (1) 18 ATP and 12 NADPH
- (2) 6 ATP and 12 NADPH
- (3) 24 ATP and 18 NADPH
- (4) 12 ATP and 18 NADPH

Ans. 1

98. Which of the following statements are not true regarding restriction endonucleases?

- A. They are called molecular scissors.
- B. These are the enzymes responsible for restricting the growth of bacteriophages in *E. coli*.
- C. They cut the DNA only at the centre of the palindromic sites.
- D. They remove nucleotides only from the ends of DNA fragments.
- E. They recognise specific palindromic base-pair sequences.

Choose the answer from the options given below:

- (1) A and B only
- (2) D and E only
- (3) C and D only
- (4) A and E only

Ans. 3

99. Match List I with List II

**List I**

- A. Decomposition
- B. Detritus
- C. Mineralisation
- D. Humification

**List II**

- I. Accumulation of dark coloured amorphous colloidal substance
- II. Release of inorganic nutrients by the activity of microbes in soil
- III. Breaking down of complex organic matter into inorganic substances
- IV. Dead remains of plants and animals including fecal matter

Choose the correct answer from the options given below:

- (1) A-I, B-II, C-III, D-IV
- (2) A-IV, B-III, C-I, D-II
- (3) A-III, B-IV, C-II, D-I
- (4) A-III, B-II, C-I, D-IV

Ans. 3

100. In which one of the following, the ovules are not enclosed by an ovary wall and remain exposed?

- (1) *Selaginella*
- (2) *Funaria*
- (3) *Pinus*
- (4) *Wolffia*

Ans. 3

101. Match List I with List II:

**List I**

**(Placentation)**

- A. Marginal
- B. Axile
- C. Parietal
- D. Basal

**List II**

**(Example)**

- I. Mustard
- II. Pea
- III. Marigold
- IV. Lemon

Choose the correct answer from the options given below:

- (1) A-I, B-III, C-II, D-IV
- (2) A-IV, B-II, C-I, D-III

(3) A-II, B-IV, C-I, D-III

(4) A-III, B-I, C-IV, D-II

**Ans. 3**

**102.** In angiosperms, root hairs arise from which one of the following regions of the root?

- (1) The root cap zone
- (2) The region of meristematic activity
- (3) The region of elongation
- (4) The region of maturation

**Ans. 4**

**103.** Which one of the following is not a characteristic of plant cells in the phase of elongation?

- (1) Increased vacuolation
- (2) Large conspicuous nuclei
- (3) Cell enlargement
- (4) New cell wall deposition

**Ans. 2**

**104.** Which of the following statements are correct with reference to a transcription unit?

- A. A transcription unit in DNA is defined primarily by three regions : promoter, structural gene and terminator.
- B. The promoter is said to be located towards the 5'-end of the structural gene.
- C. The promoter is a DNA sequence that provides binding site for RNA polymerase.
- D. The promoter defines the template and coding strands.
- E. The terminator is located towards the 3'-end of the coding strand and it defines the end of the process of transcription.

Choose the correct answer from the options given below:

- (1) A, B, C, D and E
- (2) B, C, D and E only
- (3) A, C, D and E only
- (4) A, B, C and D only

**Ans. 1**

**105.** Alpha-helix is found in which level of protein structure?

- (1) Quaternary structure
- (2) Tertiary structure
- (3) Primary structure
- (4) Secondary structure

**Ans. 4**

**106.** Which of the following statements are correct regarding amino acids?

- A. They are substituted methanes.
- B. Serine is an aromatic amino acid.
- C. Valine is a neutral amino acid.
- D. Lysine is an acidic amino acid.

Choose the correct answer from the options given below:

- (1) C and D only
- (2) A and B only
- (3) A and C only
- (4) B and C only

**Ans. 3**

**107.** The main function of bulliform cells in grasses is:

- (1) to make the leaf impermeable to fungal spores.
- (2) to perform photosynthesis
- (3) to minimize water loss during water stress.
- (4) to transport water.

**Ans. 3**

**108.** Find the incorrect statement(s) about photosynthesis from the following:

- A. The water splitting complex is associated with PS I.
- B. C<sub>4</sub> plants use the C<sub>3</sub> pathway of CO<sub>2</sub> fixation as the main biosynthetic pathway.
- C. In C<sub>4</sub> plants, photorespiration does not occur.
- D. C<sub>3</sub> plants exhibit 'Kranz' anatomy.
- E. ATP synthesis in chloroplast occurs through chemiosmosis.

Choose the answer from the options given below:

- (1) B only  
 (2) A and D only  
 (3) B and C only  
 (4) B and E only

**Ans. 2**

**109.** Match List I with List II:

**List I**

- A. Conjunctive tissue  
 B. Casparian strips  
 C. Subsidiary cells  
 D. Starch sheath

**List II**

- I. Specialised cells in the vicinity of guard cells  
 II. Endodermal cells rich in starch  
 III. Tissue between xylem and phloem  
 IV. Endodermal cells with suberin deposition

Choose the correct answer from the options given below:

- (1) A-IV, B-III, C-I, D-II  
 (2) A-III, B-IV, C-II, D-I  
 (3) A-III, B-IV, C-I, D-II  
 (4) A-IV, B-III, C-II, D-I

**Ans. 3**

**110.** Match List I with List II:

**List I**

- A. Genetically modified organism  
 B. Thermostable DNA polymerase  
 C. Ti plasmid  
 D. pBR322

**List II**

- I. *Agrobacterium tumefaciens*  
 II. Bt cotton  
 III. *Thermus aquaticus*  
 IV. *Escherichia coli*

Choose the correct answer from the options given below:

- (1) A-II, B-I, C-IV, D-III  
 (2) A-I, B-IV, C-III, D-II  
 (3) A-II, B-III, C-I, D-IV  
 (4) A-I, B-II, C-IV, D-III

**Ans. 3**

**111.** Heterophyllous development in response to environment is an example of which of the following phenomena?

- (1) Dedifferentiation  
 (2) Elasticity  
 (3) Redifferentiation  
 (4) Plasticity

**Ans. 4**

**112.** In racemose inflorescence, \_\_\_\_\_

- (1) the main axis terminates in a flower  
 (2) the growth is limited  
 (3) flowers are borne in an acropetal succession  
 (4) flowers are solitary

**Ans. 3**

**113.** Which one of the following disorders is caused by the substitution of Glutamic acid (Glu) by Valine (Val) at the sixth position of the beta globin chain of the haemoglobin molecule?

- (1) Haemophilia  
 (2) Thalassemia  
 (3) Sickle-cell anaemia  
 (4) Phenylketonuria

**Ans. 3**

**114.** Match List I with List II:

**List I**

- A. Incomplete dominance  
 B. Co-dominance  
 C. Pleiotropy  
 D. Polygenic inheritance

**List II**

- I. Human skin colour  
 II. Inheritance of flower colour in *Antirrhinum* sp.  
 III. Phenylketonuria disease in humans  
 IV. ABO blood groups

Choose the correct answer from the options given below:

- (1) A-II, B-IV, C-III, D-I  
 (2) A-I, B-III, C-II, D-IV  
 (3) A-II, B-I, C-III, D-IV  
 (4) A-I, B-IV, C-III, D-II

**Ans. 1**

**115.** Arrange the following in the correct developmental sequence related to microsporogenesis:

- A. Microspore tetrads

- B. Sporogenous tissue
- C. Pollen grains
- D. Pollen mother cells

Choose the correct answer from the options given below:

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

**Ans. 3**

**116.** Arrange the following steps of DNA fingerprinting in a correct sequence.

- A. Isolation of DNA and its digestion by restriction endonucleases.
- B. Hybridisation using a labelled VNTR probe.
- C. Transferring of separated DNA fragments to synthetic membranes.
- D. Detection of hybridised DNA fragments by autoradiography.
- E. Separation of DNA fragments by electrophoresis.

Choose the correct answer from the options given below:

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

**Ans. 1**

**117.** Exploring molecular, genetic and species-level diversity for products of economic importance is called:

- (1) Biomagnification
- (2) Biofortification
- (3) Bioremediation
- (4) Bioprospecting

**Ans. 4**

**118.** Which of the following statements are true with reference to the sex-determination in honeybees?

- A. An offspring formed from the union of a sperm and an egg, develops as a female (queen or worker).
- B. An unfertilized egg develops as a male by parthenogenesis.
- C. A male has half the number of chromosomes than that of a female.
- D. Males produce sperms meiosis.
- E. Honeybees have a haplodiploid sex-determination system.

Choose the correct answer form the options given below:

- (1) B, C, D and E only
- (2) A, B, C and D only
- (3) A, B, D and E only
- (4) A, B, C and E only

**Ans. 4**

**119.** Identify the correct sequence of steps in each cycle of Polymerase Chain Reaction:

- (1) Denaturation → Annealing → Extension
- (2) Denaturation → Extension → Annealing
- (3) Extension → Annealing → Denaturation
- (4) Annealing → Denaturation → Extension

**Ans. 1**

**120.** Which of the following statements are correct with respect to DNA separation, isolation and visualization?

- A. The cutting of DNA done by molecular scissors.
- B. The DNA fragments separate according to their size in an agarose gel, upon electrophoresis.
- C. The separated DNA fragments can be seen without staining when exposed to UV light.
- D. The separated DNA fragments, when stained with ethidium bromide, can be seen in visible light.

Choose the correct answer from the options given below:

- (1) A and D only
- (2) B and D only
- (3) B and C only
- (4) A and B only

**Ans. 4**

**121.** The main criteria used for Five Kingdom Classification proposed by R.H. Whittaker (1969) included:

- A. Cell structure
- B. Body organization
- C. Presence of flagellum
- D. Reproduction
- E. Phylogenetic relationships

Choose the correct answer from the options given below:

- (1) A, B, D and E only
- (2) A, B, C, D and E
- (3) A, B and E only
- (4) B, C and D only

**Ans. 1**

**122.** Which one of the following is a triploid cell?

- (1) Central cell
- (2) Primary endosperm cell
- (3) Zygote
- (4) Synergid

**Ans. 2**

**123.** Which of the following statements are correct with reference to packaging of DNA helix?

- A. Histones are organized to form a unit of eight molecules called histone octamer.
- B. Histones are negatively charged basic proteins.
- C. Histones are rich in the basic amino acid residues - lysine and arginine.
- D. The positively charged DNA is wrapped around the histone octamer to form nucleosome.
- E. The packaging of chromatin at higher levels requires an additional set of proteins called non-histone chromosomal proteins.

Choose the correct answer from the options given below:

- (1) A, B and D only
- (2) A, C and E only
- (3) C, D and E only
- (4) B, D and E only

**Ans. 2**

**124.** Which of the following is an *in situ* conservation method?

- (1) Sacred Groves
- (2) Wildlife Safari Parks
- (3) Botanical Gardens
- (4) Seed Banks

**Ans. 1**

**125.** In the lac operon, the z gene codes for:

- (1) transacetylase
- (2) the repressor of lac operon
- (3) permease
- (4) beta-galactosidase

**Ans. 4**

**126.** Match List I with List II:

**List I**  
**(Growth Regulator)**

- A. 2,4-D
- B. GA<sub>3</sub>
- C. Kinetin
- D. ABA

**List II**  
**(Function/Effect)**

- I. Brewing industry
- II. Stimulation of stomatal closure
- III. Herbicide
- IV. Nutrient mobilisation

Choose the correct answer from the options given below:

- (1) A-IV, B-III, C-II, D-I
- (2) A-I, B-II, C-IV, D-III
- (3) A-III, B-I, C-IV, D-II
- (4) A-I, B-IV, C-III, D-II

**Ans. 3**

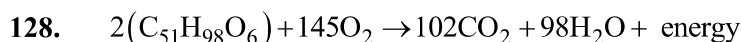
**127.** Arrange the following steps of somatic hybridisation in a correct sequence.

- A. Digestion of cell walls.
- B. Isolation of naked protoplasts.
- C. Fusion of protoplasts to get hybrid protoplast.
- D. Isolation of single cells from two different varieties of plants.
- E. Growing of hybrid protoplast to form a new plant.

Choose the correct answer from the options given below:

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

**Ans. 2**



The Respiratory Quotient (RQ) of a biomolecule used for respiration, as per the above equation, would be:

- (1) Less than 0.5 (2) Between 0.5 and 0.95  
(3) Between 1.25 and 2 (4) 1.0

Ans. 2

129. Since the origin and diversification of life on Earth, there have been five episodes of mass extinction of species. How is the sixth extinction, which is in progress, different from the previous episodes?

- (1) The current species extinction rates are far lower than those in previous episodes.  
(2) The present species extinction rates are 100 to 1000 times faster than the pre-human times.  
(3) The present net species extinction rate is zero.  
(4) The current species extinction rate is nearly 10 times faster than that in previous episodes.

Ans. 2

130. Match List I with List II:

List I	List II
A. Trypsin	I. Intercellular ground substance
B. Morphine	II. Lectin
C. Concanavalin A	III. Enzyme
D. Collagen	IV. Alkaloid

Choose the correct answer from the options given below:

- (1) A-III, B-IV, C-II, D-I (2) A-I, B-II, C-III, D-IV  
(3) A-III, B-II, C-IV, D-I (4) A-IV, B-III, C-II, D-I

Ans. 1

131. Which one of the following statements is not true about the universal rules of binomial nomenclature?

- (1) Both the words in a biological name, when handwritten, are separately underlined or printed in italics.  
(2) The specific epithet in the biological name starts with a small letter.  
(3) The first word in the biological name represents the specific epithet, while the second component denotes the genus.  
(4) Biological names are generally in Latin.

Ans. 3

132. The enzyme required for carboxylation in the Calvin cycle is:

- (1) PEP carboxylase (2) RuBP carboxylase - oxygenase  
(3) Carboxypeptidase (4) Hexokinase

Ans. 2

133. Which of the following floral formula is the correct floral formula of Solanaceae family?

- (1)  $\oplus \overset{\curvearrowright}{\underset{\curvearrowleft}{\text{♀}} K_{(5)} C_{(5)} A_5 \underline{G}_{(2)}}$   
(2)  $\oplus \overset{\curvearrowright}{\underset{\curvearrowleft}{\text{♀}} K_5 \cdot C_{(5)} A_5 \underline{G}_{(2)}}$   
(3)  $\oplus \overset{\curvearrowright}{\underset{\curvearrowleft}{\text{♀}} K_{(5)} C_{(5)} A_5 \underline{G}_{(2)}}$   
(4)  $\oplus \overset{\curvearrowright}{\underset{\curvearrowleft}{\text{♀}} K_5 C_5 A_5 \underline{G}_{(2)}}$

Ans. 1

134. Which one of the following types of pollination brings genetically different types of pollen grains to the stigma?

- (1) Geitonogamy (2) Autogamy  
(3) Xenogamy (4) Cleistogamy

Ans. 3

135. Match List I with List II:

**List I**

**(Process)**

- A. Glycolysis
- B. ETS
- C. Accumulation of protons
- D. Krebs' cycle

**List II**

**(Location)**

- I. Inner mitochondrial membrane
- II. Mitochondrial matrix
- III. Cytoplasm
- IV. Intermembrane space

Choose the correct answer-from the options given below:

- (1) A-I, B-IV, C-III, D-II
- (2) A-III, B-I, C-IV, D-II -
- (3) A-IV, B-II, C-I, D-III
- (4) A-II, B-III, C-IV, D-I

**Ans. 2**

136. Insertion of a foreign DNA at BamHI site in an *E. coli* cloning vector pBR322 results in the loss of antibiotic resistance towards:

- (1) Gentamycin
- (2) Ampicillin and tetracycline
- (3) Tetracycline
- (4) Ampicillin

**Ans. 3**

137. The sixth mutant codon of beta globin gene causing polymerization of Haemoglobin and change in RBC shape is \_\_\_\_\_.

- (1) CAG
- (2) GUG
- (3) AUG
- (4) GAG

**Ans. 2**

138. Choose the correct statement regarding GIFT to overcome infertility.

- (1) Ova collected from a female donor are transferred to the uterus of an infertile female.
- (2) It is the transfer of an ovum collected from a donor into the fallopian tube of another female who cannot produce ovum but can provide suitable environment for fertilization and development.
- (3) Early embryos with up to 8 blastomeres are transferred to the uterus of an infertile female.
- (4) Early embryos with up to 8 blastomeres are transferred into the fallopian tube of an infertile female.

**Ans. 2**

139. Which one of the following is an appropriate example of 'sexual deceit'?

- (1) Female wasp and fig
- (2) Cuckoo and crow
- (3) Ophrys and bumblebee
- (4) Sea anemone and clown fish

**Ans. 3**

140. Evolution of human appears parallel to the progressive development of brain and language skills. As such, the evolution of individual species in the sequence of their appearance is :

- (1) *Homo habilis* → *Homo erectus* → *Ramapithecus* → *Neanderthal* → *Homo sapiens*
- (2) *Ramapithecus* → *Homo habilis* → *Homo erectus* → *Neanderthal* → *Homo sapiens*
- (3) *Homo sapiens* → *Ramapithecus* → *Homo habilis* → *Neanderthal* → *Homo erectus*
- (4) *Neanderthal* → *Ramapithecus* → *Homo habilis* → *Homo erectus* → *Homo sapiens*

**Ans. 2**

141. Match List I with List II related to embryonic development at various months of pregnancy:

**List I**

- A. The foetus movement starts and hair appears on the head
- B. The foetus develops limbs and digits
- C. The foetus develops external genital organs
- D. The foetus body is covered with fine hair; eyelids separate and eyelashes are formed

**List II**

- I. 24 weeks of pregnancy
- II. 20 weeks of pregnancy
- III. 8 weeks of pregnancy
- IV. 12 weeks of pregnancy

Choose the correct answer from the options given below:

- (1) A-III, B-II, C-IV, D-I                      (2) A-II, B-IV, C-III, D-I  
 (3) A-IV, B-II, C-III, D-I                      (4) A-II, B-III, C-IV, D-I

**Ans. 4**

**142.** A group of researchers procured some fish-like animals and upon investigation the following characters were observed:

- A. Endoskeleton was made of cartilage.  
 B. Ectoparasitic; as they were found attached on fish skin with their circular sucking mouth.  
 C. Paired fins and scales were absent, but 7 pairs of gill slits were present.

Which of the following species of animals did they consider to fit best with these characters?

- (1) *Exocoetus sp.*                                      (2) *Branchiostoma sp.*  
 (3) *Petromyzon sp.*                                    (4) *Scoliodon sp.*

**Ans. 3**

**143.** Spermatogonia undergo a series of cell divisions to produce sperms. Select the correct statements from the following:

- A. Spermatogonia always undergo meiotic cell division.  
 B. Primary spermatocytes divide mitotically to produce secondary spermatocytes.  
 C. Secondary spermatocytes, through their second meiotic division, produce haploid spermatids.  
 D. Spermatids produce spermatozoa through mitosis.  
 E. Spermatids transform into spermatozoa by spermiogenesis.

Choose the correct answer from the options given below:

- (1) C and E only                                      (2) A, C and E only  
 (3) B, C and D only                                (4) A and E only

**Ans. 1**

**144.** What is the probability of having children with 'O' blood group, where both mother and father are heterozygous for 'A' and 'B' blood group, respectively?

- (1) 50%    (3) 75%  
 (2) 0%     (4) 25%

**Ans. 4**

**145.** Arrange the following events occurring in Renin-Angiotensin-mechanism in the correct order:

- A. Increase in blood pressure and Glomerular filtration rate.  
 B. Reabsorption of Na<sup>+</sup> and water from distal parts of tubule due to Aldosterone.  
 C. Fall in Glomerular filtration rate.  
 D. Vasoconstriction by Angiotensin II and release of Aldosterone.  
 E. Renin converts Angiotensinogen into Angiotensin I, followed by Angiotensin II.

Choose the correct answer from the options given below:

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

**Ans. 4**

**146.** Match List I with List II:

<b>List I (Respiratory Volume)</b>	<b>List II (Capacity in mL)</b>
A. ERV (Expiratory Reserve Volume)	I. 2500-3000 mL
B. RV (Residual Volume)	II. 500 mL
C. IRV (Inspiratory Reserve Volume)	III. 1000-1100 mL
D. TV (Tidal Volume)	IV. 1100-1200 mL

Choose the correct answer from the options given below:

- (1) A-III, B-I, C-IV, D-II                        (2) A-I, B-III, C-II, D-IV  
 (3) A-III, B-IV, C-I, D-II                        (4) A-I, B-II, C-III, D-IV

**Ans. 3**

**147.** Match List I with List II:

<b>List I</b>	<b>List II</b>
A. Progestasert	I. Barrier made of rubber used by females
B. Multiload 375	II. Oral contraceptive

- C. Diaphragm  
 D. Saheli
- III. Hormone releasing IUD  
 IV. Copper releasing IUD

Choose the correct answer from the options given

- (1) A-III, B-IV, C-I, D-II  
 (2) A-III, B-IV, C-II, D-I  
 (3) A-IV, B-II, C-I, D-III  
 (4) A-IV, B-III, C-I, D-II

**Ans. 1**

**148.** Non-membrane bound cell organelles found in both prokaryotic and eukaryotic cells are \_\_\_\_\_.

- (1) Centrosomes  
 (2) Ribosomes  
 (3) Lysosomes  
 (4) Mitochondria

**Ans. 2**

**149.** Ecological pyramids represent the relationship between the organisms at different trophic levels and they are generally inverted for:

- (1) Pyramid of energy in pond ecosystem  
 (2) Pyramid of biomass in sea  
 (3) Pyramid of number in grassland  
 (4) Pyramid of biomass in grassland

**Ans. 2**

**150.** The flightless bird with forelimbs modified as paddle-like structures suited for swimming is known as:

- (1) *Struthio*  
 (2) *Psittacula*  
 (3) *Neophron*  
 (4) *Aptenodytes*

**Ans. 4**

**151.** Match List I with List II:

- | List I (Bioactive molecules) | List II (Importance)                        |
|------------------------------|---|
| A. Streptokinase             | I. Immunosuppressive agent                  |
| B. Statins                   | II. Removal of clots from the blood vessels |
| C. Lipases                   | III. Blood cholesterol-lowering agent       |
| D. Cyclosporin A             | IV. Detergent formulations                  |

Choose the correct answer from the options given below:

- (1) A-II, B-III, C-IV, D-I  
 (2) A-IV, B-III, C-II, D-I  
 (3) A-II, B-III, C-I, D-IV  
 (4) A-III, B-II, C-IV, D-I

**Ans. 1**

**152.** Choose the correct statements regarding cell organelles and their inclusions.

- A. The endomembrane system includes Golgi complex, endoplasmic reticulum and mitochondria.  
 B. Rough endoplasmic reticulum bears ribosomes on its surface.  
 C. Both mitochondria and plastids have circular DNA.  
 D. A network of microtubules, microfilaments and intermediate filaments present in the cytoplasm is called cytoskeleton.  
 E. Mitochondrion is a single membrane-bound structure.

Choose the correct answer from the options given below:

- (1) C, D and E only  
 (2) A and B only  
 (3) A, B and C only  
 (4) B, C and D only

**Ans. 4**

**153.** Select the set of fishes which belong to the class Osteichthyes:

- (1) Devil fish, Cuttlefish and Hagfish  
 (2) Starfish, Hagfish and Cuttlefish  
 (3) Flying fish, Angel fish and Fighting fish  
 (4) Saw fish, Fighting fish and Dog fish

**Ans. 3**

**154.** In a population of a grasshopper species, the chromosome number of some members is 23 and some other members possess 24 chromosomes. The 23 and 24 chromosome-bearing members in this species are \_\_\_\_\_.

- (1) all males (2) all females  
 (3) females and males, respectively (4) males and females, respectively

**Ans. 4**

**155.** The WBC count of a person's blood sample is 8000/cu.mm. How many eosinophils and lymphocytes would be in the same blood sample approximately?

- (1) 160 -240/cu.mm and 1600 - 2000/cu.mm, respectively  
 (2) 100 - 120/cu.mm and 160 - 200/cu.mm, respectively  
 (3) 300 - 500/cu.mm and 500 - 700/cu.mm, respectively  
 (4) 300 - 500/cu.mm and 1200 - 1500/cu.mm, respectively

**Ans. 1**

**156.** The toxin proteins isolated from *Bacillus thuringiensis*, coded by which of the following genes would control cotton bollworms and corn borer, respectively?

- (1) *cryIAC* and *cryIIIAB*  
 (2) *cryIAC* and *cryIIAB*  
 (3) *cryIAC* and *cryIAB*  
 (4) *cryIIAB* and *cryIAC*

**Ans. 3**

**157.** Match List I with List II:

**List I (Drug)**

- A. Nicotine  
 B. Morphine  
 C. Heroin  
 D. Cocaine

**List II (Effect)**

- I. Causes sense of euphoria and increased energy  
 II. Stimulates adrenal gland to release catecholamines into blood circulation  
 III. Effective sedative and painkiller  
 IV. A depressant; slows down body function

Choose the correct answer from the options given below:

- (1) A-III, B-II, C-IV, D-I (2) A-II, B-III, C-IV, D-I  
 (3) A-II, B-III, C-I, D-IV (4) A-III, B-II, C-I, D-IV

**Ans. 2**

**158.** Match List I with List II related to muscular/skeletal system:

**List I**

- A. Tetany  
 B. Arthritis  
 C. Myasthenia gravis  
 D. Muscular dystrophy

**List II**

- I. Inflammation of joints  
 II. Autoimmune disorder affecting neuromuscular junction  
 III. Wild contraction in muscle due to low  $Ca^{++}$  in body fluid  
 IV. Progressive degeneration of skeletal muscle

Choose the correct answer from the options given below:

- (1) A-III, B-I, C-II, D-IV (2) A-IV, B-III, C-II, D-I  
 (3) A-I, B-II, C-III, D-IV (4) A-III, B-II, C-I, D-IV

**Ans. 1**

**159.** In which animal do haploid cells divide mitotically to produce gametes?

- (1) Male honeybees (2) Male grasshoppers  
 (3) Male earthworms (4) Male frogs

**Ans. 1**

**160.** In humans, respiration occurs in the following steps. Arrange these steps in the correct order.

- A. Diffusion of  $O_2$  and  $CO_2$  between blood and tissues  
 B. Diffusion of  $O_2$  and  $CO_2$  across alveolar membrane  
 C. Pulmonary ventilation by which atmospheric air is drawn in and  $CO_2$  rich alveolar air is released out  
 D. Cellular respiration  
 E. Transport of gases by the blood

Choose the correct answer from the options given below:

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

**Ans. 4**

**161.** Arrange the following cell layers/structures around the female gamete, from outer to inner side:

- A. Zona pellucida
- B. Perivitelline space
- C. Corona radiata
- D. Plasma membrane of ovum

Choose the correct answer from the options given below:

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

**Ans. 2**

**162.** The human protein named  $\alpha$ -1-antitrypsin, obtained from transgenic animals, is used for the treatment of \_\_\_\_\_.

- (1) Alzheimer's disease
- (2) Emphysema
- (3) Rheumatoid arthritis
- (4) Cystic fibrosis

**Ans. 2**

**163.** Select the correct statements regarding cell membrane in eukaryotic cell.

- A. Membrane of human RBCs has approximately 52% protein.
- B. Major phospholipids are arranged in a bilayer.
- C. Extensions of the plasma membrane into the cell form mesosomes.
- D. Tails towards the inner part of lipids are hydrophobic and thus protected from aqueous medium.
- E. Glycocalyx is present on the outer surface of the plasma membrane

Choose the correct answer from the options given below:

- (1) A, C and E only
- (2) B, C and E only
- (3) C, D and E only
- (4) A, B and D only

**Ans. 4**

**164.** Male frogs can be distinguished from female frogs due to the presence of:

- A. Bulging eyes
- B. Vocal sacs
- C. Webbed digits in feet
- D. Copulatory pad on first digit of fore limbs
- E. Olive green-coloured skin with dark irregular spots

Choose the correct answer from the options given below:

- (1) B and D only
- (2) B and C only
- (3) A and B only
- (4) C and E only

**Ans. 1**

**165.** Which of the following equations depicts Verhulst-Pearl logistic population growth?

- (1)  $\frac{dN}{dt} = rN \left( \frac{K - N}{K} \right)$
- (2)  $\frac{dN}{dt} = rN \left( \frac{K + N}{K} \right)$
- (3)  $\frac{dN}{dt} = rN \left( \frac{K}{K - N} \right)$
- (4)  $\frac{dN}{dt} = rN \left( \frac{K - N}{N} \right)$

**Ans. 1**

**166.** Choose the correct statements regarding frog's anatomy:

- A. Hepatic portal system is the special venous connection between liver and intestine.
- B. There are twelve pairs of cranial nerves arising from the brain.
- C. The ureters and oviducts open separately into the cloaca in female frogs.
- D. Hind-brain consists of cerebellum, medulla oblongata and optic lobes.
- E. Sinus venosus joins the right atrium of heart.

Choose the correct answer from the options given below:

- (1) B and D only
- (2) A, C and E only
- (3) A, B and C
- (4) B and C only

**Ans. 2**

167. Select the incorrect statements with reference to Rh grouping.
- Erythroblastosis foetalis is a condition observed having foetus with Rh<sup>-ve</sup> blood and mother with Rh<sup>+ve</sup> blood.
  - Rh antigen is observed on RBCs in the majority of human beings.
  - Before blood transfusion, Rh group should also be matched.
  - Rh incompatibility is observed when a pregnant mother is Rh<sup>-ve</sup> and the foetus is Rh<sup>+ve</sup>.
  - Erythroblastosis foetalis can be avoided by administering anti-Rh antibodies to the mother immediately after the delivery of the second child.

Choose the answer from the options given below:

- A and E only
- A and B only
- B and C only
- C and D only

**Ans. 1**

168. Which of the following statements are correct with reference to human endoskeleton?

- Human skull is monocondylic.
- The joint between any two adjoining vertebrae is a cartilaginous joint.
- In human beings, the number of cervical vertebrae is seven.
- All ribs except the last 2 pairs are bicephalic.
- The occipital bone of skull is articulated with atlas vertebra.

Choose the correct answer from the options given below:

- A, B and D only
- B and E only
- B, C and E only
- C, D and E only

**Ans. 3**

169. Match List I with List II:

<b>List I</b>	<b>List II</b>
A. Cortisol	I. Stimulates the formation of alveoli in mammary glands
B. Aldosterone	II. Produces anti-inflammatory reactions
C. Cholecystokinin	III. Stimulates reabsorption of Na <sup>+</sup> and water from renal tubule
D. Progesterone	IV. Stimulates secretion of pancreatic enzymes and bile juice

Choose the correct answer from the options given below:

- A-III, B-II, C-IV, D-I
- A-II, B-III, C-IV, D-I
- A-IV, B-II, C-I, D-III
- A-II, B-III, C-I, D-IV

**Ans. 2**

170. The following are the stages of life cycle of Plasmodium. Arrange the stages in the proper order.

- The parasites reproduce asexually in RBCs, bursting the cells.
- The parasites reproduce asexually in liver cells, bursting the cells and releasing into blood.
- Gametocytes develop in RBCs.
- Sporozoites reach the liver through the blood.
- Female mosquito injects sporozoites into humans during bite.

Choose the correct answer from the options given below:

- A, B, C, D, E
- E, D, B, A, C
- C, A, B, D, E
- E, C, D, B, A

**Ans. 2**

171. Select the incorrect statements from the following:

- Digestive system in Platyhelminthes is incomplete.
- Bilateral symmetry is a characteristic feature of adult Echinoderms.
- Pseudocoelom is possessed by Aschelminthes.
- Notochord is persistent throughout life in the class Chondrichthyes.
- Members of class Reptilia maintain a constant body temperature.

Choose the answer from the options given below:

- B and E only
- C and D only
- A and C only
- B and D only

**Ans. 1**

**172.** The specific receptors for neurotransmitters in a synapse are present on \_\_\_\_\_.

- (1) Post-synaptic membrane (2) Pre-synaptic membrane  
(3) Myelin sheath (4) Schwann cell

**Ans. 1**

**173.** Choose the correct statements regarding muscle contraction.

- A. A motor neuron carries a signal sent by the Central Nervous System (CNS) to the sarcolemma of the muscle fibre.  
B. The neural signal generates an action potential when causes the release of  $\text{Ca}^{++}$  into sarcoplasm.  
C. Increase in  $\text{Ca}^{++}$  inactivates the actin for breaking cross bridges.  
D. Actin binds to the myosin head to form a cross bridge.  
E. Shortening of sarcomere takes place, by pulling actin filaments towards the centre of 'A' band.

Choose the correct answer from the options given below:

- (1) A, B, D and E only (2) C and D only  
(3) C and E only (4) A and B only

**Ans. 1**

**174.** Which of the following is not an example of convergent evolution?

- (1) Eyes of octopuses and mammals  
(2) Fore limbs of whales and bats  
(3) Wings of butterflies and birds  
(4) Flippers of penguins and dolphins

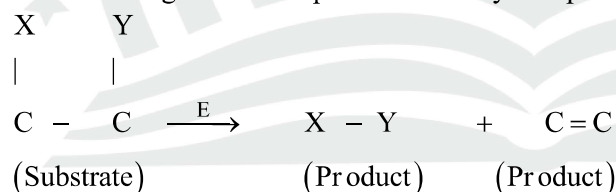
**Ans. 2**

**175.** The JGA (Juxta Glomerular Apparatus) is a special sensitive region formed by cellular modifications in \_\_\_\_\_ related to the same nephron.

- (1) Distal convoluted tubule and efferent renal arteriole  
(2) Proximal convoluted tubule and afferent renal arteriole  
(3) Distal convoluted tubule and afferent renal arteriole  
(4) Proximal convoluted tubule and efferent renal arteriole

**Ans. 3**

**176.** The following reaction depicts the activity of a particular class of enzymes:



Identify the enzyme class 'E' from the following options:

- (1) Ligases (2) Lyases  
(3) Isomerases (4) Transferases

**Ans. 2**

**177.** Match List I with List II:

**List I**

- A. Molluscs  
B. Reptiles  
C. Adult amphibians  
D. *Amoeba*

**List II**

- I. Pulmonary respiration only  
II. Branchial respiration  
III. Cellular respiration  
IV. Pulmonary and Cutaneous respiration

Choose the correct answer from the options given below:

- (1) A-III, B-II, C-I, D-IV (2) A-II, B-I, C-IV, D-III  
(3) A-II, B-I, C-III, D-IV (4) A-I, B-II, C-IV, D-III

**Ans. 2**

**178.** What is the reason behind production of large holes in 'Swiss Cheese'?

- (1) The productions of large amount of  $\text{CO}_2$  by *Clostridium butylicum*

- (2) The production of large amount of CO<sub>2</sub> and H<sub>2</sub> by *Trichoderma polysporum*
- (3) The production of large amount of CO<sub>2</sub> and H<sub>2</sub> by lactic acid bacteria called *Lactobacillus*
- (4) The production of large amount of CO<sub>2</sub> by *Propionibacterium sharmanii*

**Ans. 4**

**179.** Match List I with List II with respect to chronology of evolution of life forms:

**List I**

- A. About 65 mya
- B. About 500 mya
- C. About 350 mya
- D. About 320 mya

**List II**

- I. Jawless fish probably evolved
- II. The dinosaurs suddenly disappeared from the earth
- III. Seaweeds and few plants probably existed
- IV. Invertebrates were formed and became active

Choose the correct answer from the options given below:

- (1) A-II, B-IV, C-I, D-III
- (2) A-II, B-IV, C-III, D-I
- (3) A-I, B-II, C-III, D-IV
- (4) A-III, B-IV, C-I, D-II

**Ans. 1**

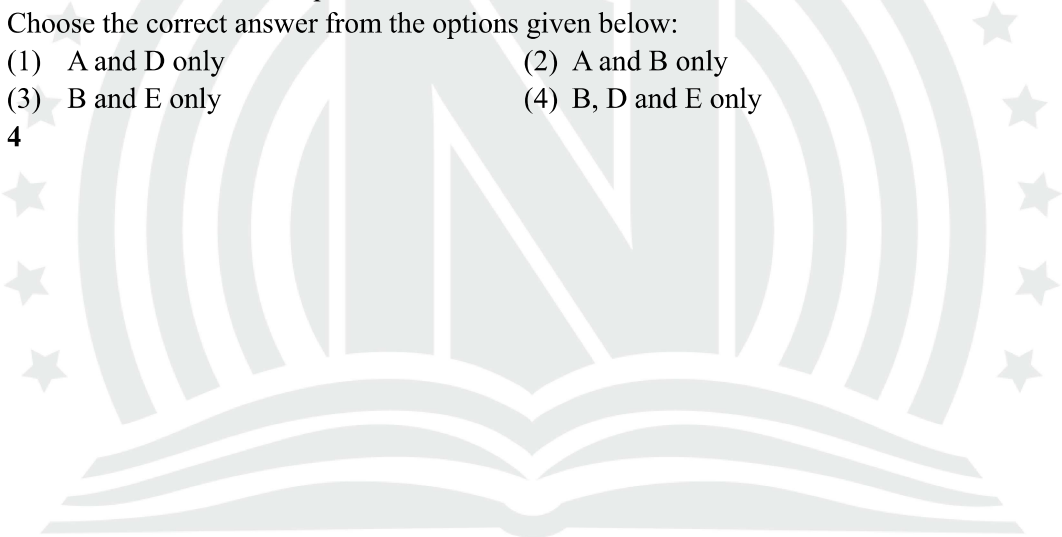
**180.** Choose the correct statements regarding population interactions between two species.

- A. In both parasitism and commensalism, only one species benefits and the other species is harmed.
- B. Both species benefit in mutualism.
- C. Both species benefit in commensalism.
- D. In parasitism, only one species benefits and the other species is harmed.
- E. In amensalism, one species is harmed and the other is unaffected.

Choose the correct answer from the options given below:

- (1) A and D only
- (2) A and B only
- (3) B and E only
- (4) B, D and E only

**Ans. 4**



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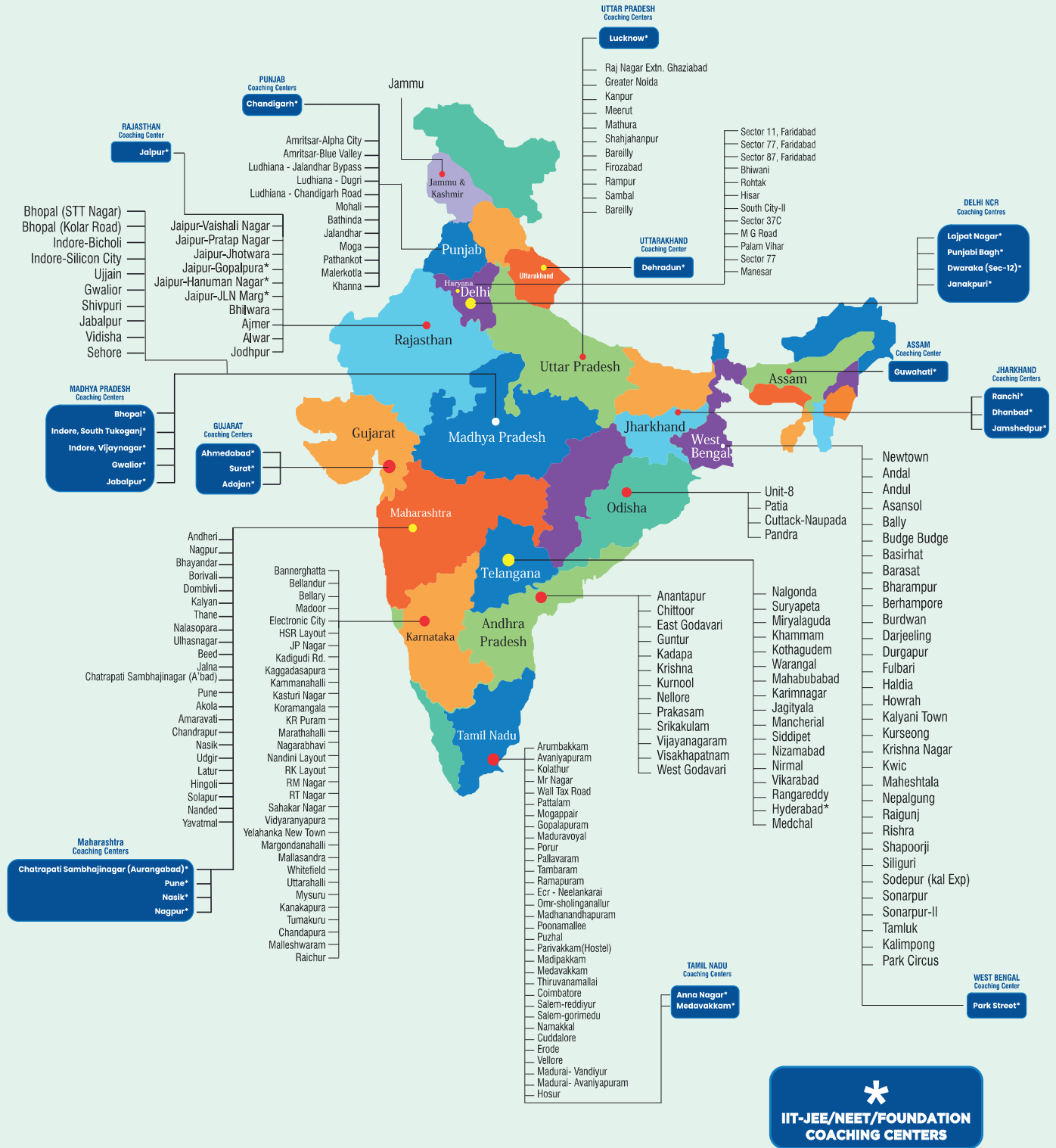
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