



# DIRECTORATE OF SCHOOL EDUCATION TAMILNADU

<b>12NPCB14</b> <b>(2023-24)</b>	<b>NEET PRACTICE QUESTIONS</b> <b>(TEST-14)</b>	<b>Class : XII</b> <b>Time : 1.15 hrs</b> <b>Total Marks : 240</b>
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## Answer key

### 12th - ZOOLOGY

46. Answer : B)

In 1983, An American Company Eli Lilly produced the twist genetically engineered insulin by synthesizing two DNA sequences corresponding to A and B insulin chains. or genes were The two DNA sequences made to fuse with plasmids of E. coli and the insulin chains. latter allowed to form The two chains were then extracted and fused to form pure human insulin often called humulin.

47. Answer: A)

The specificity and sensitivity of PCR is useful for the diagnosis of inherited disorders. The diagnosis and treatment of a particular disease often requires identifying a Particular pathogen. So, and both Specificity **Sencitirty** of PCR should have been in equal proportion.

48. Answer: D) The first clinical gene therapy was given in 1990 to a 4 year old girl with adenosine deaminase deficiently. It can be cured by bonc marrow transplantation, in few cases.

Here, the isolated gene from bone marrow cells producing ADA is introduced into cells at early embryonic stages, it can be a permanent cure.

49. Answer: A)

Palindromes are groups of letters that form the same words when read both forward and backward.

The following sequence read the same on the direction two strands in  $5' \rightarrow 3'$  This is also true it read in the  $3' \rightarrow 5'$  direction.

50. Answer: C)  
At present Edible vaccines. are Produced for human and animal diseases. like measles, cholera, foot and mouth disease and hepatitis.
51. Answer : B)  
E. coli does not posses the machinery for glycosylation of proteins
52. Answer : A)  
Taq polymerase
53. Answer. D)  
An adult's bones are harder, more brittle and likely to break than bend. It Contains more of calcified matrix containing elastin, phosphate and calcium Salts. It's due to growth process.
54. Answer: A)  
a - 2, 5,      b - 3, 6      c - 1, 4
55. Answer: A)  
There are seven pairs of Vertebro sternal bones, three pairs of Vertebro chondral and two pairs of Vertebral ribs.
56. Answer: C)  
Antagonistic muscles are those muscles which contracts to produce opposite movements at the same joint. During flexion at the elbow, biceps Contracts and triceps relaxes. during extension at the same joint, triceps contracts and biceps relaxes.
57. Answer: D  
Tarsus, Femur, metatarsus and tibia are bones of the legs which are involved in running during chasing the ball by cricket player.

58. Answer. D

Scapula is a triangular shaped flat bone articulates with humerus bone and forms shoulder joint. Cranial bones are joined by sutures (Fibrous) which are immovable.

Sternum is a Flat bone of the mid Ventral line of the thorax.

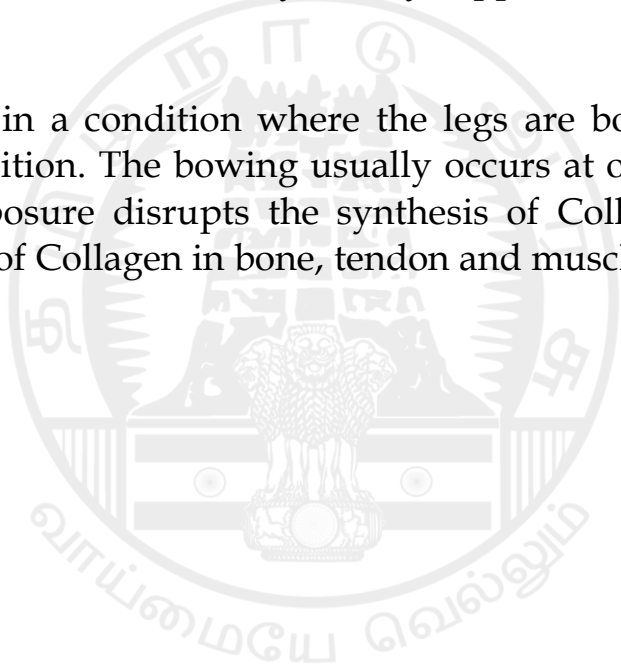
Vertebral Column - 33 Vertebrae which are interconnected by cartilage known as Intervertebral disc.

59. Answer: A)

Bones cannot move more freely as they are supported by muscles:

60. Answer: C)

Knock knee is a condition where the legs are bowed inwards in a standing position. The bowing usually occurs at or around the knee. Fluoride exposure disrupts the synthesis of Collagen and leads to break down of Collagen in bone, tendon and muscle.





# DIRECTORATE OF SCHOOL EDUCATION TAMILNADU

<b>11NPCB14 (2023-24)</b>	<b>NEET PRACTICE QUESTIONS (TEST-14)</b>	<b>Class : XI Time : 1.15 hrs Total Marks : 240</b>
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## Answer key

### 11<sup>th</sup> - ZOOLOGY

46. Answer. D)

An adult's bones are harder, more brittle and likely to break than bend. It Contains more of calcified matrix containing elastin, phosphate and calcium Salts. It's due to growth process.

47. Answer: A)

a - 2, 5,      b - 3, 6      c - 1, 4

48. Answer: A)

There are seven pairs of Vertebro sternal bones, three pairs of Vertebro chondral and two pairs of Vertebral ribs.

49. Answer: C)

Antagonistic muscles are those muscles which contracts to produce opposite movements at the same joint. During flexion at the elbow, biceps Contracts and triceps relaxes. during extension at the same joint, triceps contracts and biceps relaxes.

50. Answer: D)

Tarsus, Femur, metatarsus and tibia are bones of the legs which are involved in running during chasing the ball by cricket player.

51. Answer. D)

Scapula is a triangular shaped flat bone articulates with humerus bone and forms shoulder joint. Cranial bones are joined by sutures (Fibrous) which are immovable.

Sternum is a Flat bone of the mid Ventral line of the thorax.

Vertebral Column - 33 Vertebrae which are interconnected by cartilage known as Intervertebral disc.

52. Answer: A)

Bones cannot move freely as they are supported by muscles:

53. Answer: C)

Knock knee is a condition where the legs are bowed inwards in a standing position. The bowing usually occurs at or around the knee. Fluoride exposure disrupts the synthesis of Collagen and leads to break down of Collagen in bone, tendon and muscle.

54. Answer: C)

Fatigue is the inability of muscle to contract due to depletion of its chemicals and lactic acid accumulation by repeated contractions.

Extra oxygen available to a relaxing muscle due to faster breathing disposes lactic acid and muscle **fatigue** disappears

55. Answer : B)

Clavicle and glenoid cavity are associated with pectoral girdle

56. Answer : C)

Protection of body heat

57. Answer : B)

Face composes 14 bones of olfactory capsule and jaws. Vomer 1  
mandible 1 Zygomatic 2 Maxilla 2 Nasal 2 Inferior nasal conchae 2,  
Lacrimal 2 and palatine 2

58. Answer : D)

It is Cervical 7, Thoracic 12, Lumbar 5, sacral (5) (Fused) coccygeal (4) (fused)

59. Answer: B)

Endoskeleton is produced by Mesoderm  
Has muscles attached to its outer surface  
Never Moulded

60. Answer: C)

In most of the mentioned cases, the narrow passage bounded by bones and ligaments in the wrist is greatly narrowed and pinches the median nerve. It results in CTS.

