

NEET UG 2019

BIOLOGY

- Q91.** The Earth Summit held in Rio de Janeiro in 1992 was called
- (1) to reduce CO₂ emissions and global warming
 - (2) for conservation of biodiversity and sustainable utilization of its benefits
 - (3) to assess threat posed to native species by invasive weed species
 - (4) for immediate steps to discontinue use of CFCs that were damaging the ozone layer
- Q92.** Colostrum the yellowish fluid, secreted by mother during the initial days of lactation is very essential to impart immunity to the new born infants because it contains
- (1) Natural killer cells
 - (2) Monocytes
 - (3) Macrophages
 - (4) Immunoglobulin A
- Q93.** Grass leaves curl inwards during very dry weather. Select the most appropriate reason from the following
- (1) Closure of stomata
 - (2) Flaccidity of bulliform cells
 - (3) Shrinkage of air spaces in spongy mesophyll
 - (4) Tyloses in vessels
- Q94.** The shorter and longer arms of a submetacentric chromosome are referred to as-
- | | |
|----------------------------------|----------------------------------|
| (1) s-arm and l-arm respectively | (2) p-arm and q-arm respectively |
| (3) q-arm and p-arm respectively | (4) m-arm and n-arm respectively |
-

- Q95.** Respiratory Quotient (RQ) value of tripalmitin is
(1) 0.9 (2) 0.7 (3) 0.07 (4) 0.09
- Q96.** Which of the following is a commercial blood cholesterol lowering agent?
(1) Cyclosporin A (2) Statin (3) Streptokinase (4) Lipases
- Q97.** Match the following structures with their respective location in organs
- | | |
|--------------------------|-----------------------|
| (a) Crypts of Lieberkuhn | (i) Pancreas |
| (b) Glisson's Capsule | (ii) Duodenum |
| (c) Islets of Langerhans | (iii) Small intestine |
| (d) Brunner's Glands | (iv) Liver |
- Select the correct option from the following
- | | | | | |
|-----|-------|------|------|-------|
| (1) | (iii) | (i) | (ii) | (iv) |
| (2) | (ii) | (iv) | (i) | (iii) |
| (3) | (iii) | (iv) | (i) | (ii) |
| (4) | (iii) | (ii) | (i) | (iv) |
- Q98.** Which of the following is the most important cause for animals and plants being driven to extinction?
(1) Habitat loss and fragmentation (2) Drought and floods
(3) Economic exploitation (4) Alien species invasion
- Q99.** Which part of the brain is responsible for thermoregulation?
(1) Cerebrum (2) Hypothalamus
(3) Corpus callosum (4) Medulla oblongata
- Q100.** Consider following features
(a) Organ system level of organisation
(b) Bilateral symmetry
(c) True coelomates with segmentation of body
Select the correct option of animal groups which possess all the above characteristics
(1) Annelida, Arthropoda and Chordata
(2) Annelida, Arthropoda and Mollusca
(3) Arthropoda, Mollusca and Chordata
(4) Annelida, Mollusca and Chordata
- Q101.** Select the correct sequence of organs in the alimentary canal of cockroach starting from mouth
(1) Pharynx → Oesophagus → Crop → Gizzard → Ileum → Colon → Rectum
(2) Pharynx → Oesophagus → Gizzard → Crop → Ileum → Colon → Rectum
(3) Pharynx → Oesophagus → Gizzard → Ileum? Crop → Colon → Rectum
(4) Pharynx → Oesophagus → Ileum → Crop? Gizzard → Colon → Rectum

Q102. Which of the following pairs of gases is mainly responsible for green house effect?

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|----------------------------------|--------------------------------|
| (1) Ozone and Ammonia | (2) Oxygen and Nitrogen |
| (3) Nitrogen and Sulphur dioxide | (4) Carbon dioxide and Methane |

Q103. Which of the following muscular disorders is inherited?

- | | |
|-----------------------|------------------------|
| (1) Tetany | (2) Muscular dystrophy |
| (3) Myasthenia gravis | (4) Botulism |

Q104. The ciliated epithelial cells are required to move particles or mucus in a specific direction. In humans, these cells are mainly present in

- | | |
|---------------------------------------|-----------------------------------------|
| (1) Bile duct and Bronchioles | (2) Fallopian tubes and Pancreatic duct |
| (3) Eustachian tube and Salivary duct | (4) Bronchioles and Fallopian tubes |

Q105. Match the Column-I with Column-II

Column-I

- (a) P - wave
- (b) QRS complex
- (c) T - wave
- (d) Reduction in the

Column-II

- (i) Depolarisation of ventricles
- (ii) Repolarisation of ventricles
- (iii) Coronary ischemia
- (iv) Depolarisation of size of T-wave atria
- (v) Repolarisation of atria

Select the correct option.

- | | | | | |
|-----|------|-------|------|-------|
| | (a) | (b) | (c) | (d) |
| (1) | (iv) | (i) | (ii) | (iii) |
| (2) | (iv) | (i) | (ii) | (v) |
| (3) | (ii) | (i) | (v) | (iii) |
| (4) | (ii) | (iii) | (v) | (iv) |

Q106. Which one of the following is not a method of in situ conservation of biodiversity?

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|-----------------------|------------------------|
| (1) Biosphere Reserve | (2) Wildlife Sanctuary |
| (3) Botanical Garden | (4) Sacred Grove |

Q107. In a species, the weight of newborn ranges from 2 to 5 kg. 97% of the newborn with an average weight between 3 to 3.3 kg survive whereas 99% of the infants born with weight from 2 to 2.5 kg or 4.5 to 5 kg die. Which type of selection process is taking place?

- | | |
|---------------------------|---------------------------|
| (1) Directional Selection | (2) Stabilizing Selection |
| (3) Disruptive Selection | (4) Cyclical Selection |

Q108. The correct sequence of phases of cell cycle is-

- | | |
|-------------------------------------------------------|-------------------------------------------------------|
| (1) $M \rightarrow G_1 \rightarrow G_2 \rightarrow S$ | (2) $G_1 \rightarrow G_2 \rightarrow S \rightarrow M$ |
| (3) $S \rightarrow G_1 \rightarrow G_2 \rightarrow M$ | (4) $G_1 \rightarrow S \rightarrow G_2 \rightarrow M$ |

- Q109.** How does steroid hormone influence the cellular activities?
- (1) Changing the permeability of the cell membrane
 - (2) Binding to DNA and forming a gene-hormone complex
 - (3) Activating cyclic AMP located on the cell membrane
 - (4) Using aquaporin channels as second messenger
- Q110.** Which of the following statements is not correct?
- (1) Lysosomes have numerous hydrolytic enzymes
 - (2) The hydrolytic enzymes of lysosomes are active under acidic pH
 - (3) Lysosomes are membrane bound structures
 - (4) Lysosomes are formed by the process of packaging in the endoplasmic reticulum
- Q111.** Which one of the following statements regarding post-fertilization development in flowering plants is incorrect?
- (1) Ovary develops into fruit
 - (2) Zygote develops into embryo
 - (3) Central cell develops into endosperm
 - (4) Ovules develop into embryo sac
- Q112.** Concanavalin A is
- (1) an alkaloid
 - (2) an essential oil
 - (3) a lectin
 - (4) a pigment
- Q113.** Which one of the following equipments is essentially required for growing microbes on a large scale, for industrial production of enzymes?
- (1) BOD incubator
 - (2) Sludge digester
 - (3) Industrial oven
 - (4) Bioreactor
- Q114.** Consider the following statement :
- (A) Coenzyme or metal ion that is tightly bound to enzyme protein is called prosthetic group.
(B) A complete catalytic active enzyme with its bound prosthetic group is called apoenzyme.
Select the correct option.
- (1) Both (A) and (B) are true.
 - (2) (A) is true but (B) is false.
 - (3) Both (A) and (B) are false.
 - (4) (A) is false but (B) is true.
- Q115.** Purines found both in DNA and RNA are
- (1) Adenine and thymine
 - (2) Adenine and guanine
 - (3) Guanine and cytosine
 - (4) Cytosine and thymine
-

Q116. Select the correct sequence for transport of sperm cells in male reproductive system.

- (1) Testis → Epididymis → Vasa efferentia → Rete testis → Inguinal canal → Urethra
- (2) Seminiferous tubules → Rete testis → Vasa efferentia → Epididymis → Vas deferens → Ejaculatory duct → Urethra → Urethral meatus
- (3) Seminiferous tubules → Vasa efferentia → Epididymis → Inguinal canal → Urethra
- (4) Testis → Epididymis → Vasa efferentia → Vas deferens → Ejaculatory duct → Inguinal canal → Urethra → Urethral meatus

Q117. Match the hominids with their correct brain size :

- (a) Homo habilis (i) 900 cc
- (b) Homo neanderthalensis (ii) 1350 cc
- (c) Homo erectus (iii) 650-800 cc
- (d) Homo sapiens (iv) 1400 cc

Select the correct option.

- | | | | | |
|-----|-------|-------|------|------|
| | (a) | (b) | (c) | (d) |
| (1) | (iii) | (i) | (iv) | (ii) |
| (2) | (iii) | (ii) | (i) | (iv) |
| (3) | (iii) | (iv) | (i) | (ii) |
| (4) | (iv) | (iii) | (i) | (ii) |

Q118. Variations caused by mutation, as proposed by Hugo de Vries are-

- | | |
|----------------------------|------------------------------|
| (1) random and directional | (2) random and directionless |
| (3) small and directional | (4) small and directionless |

Q119. Which of the following pair of organelles does not contain DNA?

- | | |
|--------------------------------|---------------------------------------|
| (1) Mitochondria and Lysosomes | (2) Chloroplast and Vacuoles |
| (3) Lysosomes and Vacuoles | (4) Nuclear envelope and Mitochondria |

Q120. Due to increasing air-borne allergens and pollutants, many people in urban areas are suffering from respiratory disorder causing wheezing due to

- (1) benign growth on mucous lining of nasal cavity
- (2) inflammation of bronchi and bronchioles
- (3) proliferation of fibrous tissues and damage of the alveolar walls
- (4) reduction in the secretion of surfactants by pneumocytes.

Q121. Select the incorrect statement.

- (1) Male fruit fly is heterogametic
- (2) In male grasshoppers 50% of sperms have no sex-chromosome
- (3) In domesticated fowls, sex of progeny depends on the type of sperm rather than egg
- (4) Human males have one of their sex- chromosome much shorter than the other

Q122. DNA precipitation out of a mixture of biomolecules can be achieved by treatment with

- (1) Isopropanol (2) Chilled ethanol
(3) Methanol at room temperature (4) Chilled chloroform

Q123. Select the correct group of biocontrol agents.

- (1) Bacillus thuringiensis, Tobacco mosaic virus, Aphids
(2) Trichoderma, Baculovirus, Bacillus thuringiensis
(3) Oscillatoria, Rhizobium, Trichoderma
(4) Nostoc, Azospirillum, Nucleopolyhedrovirus

Q124. Select the incorrect statement.

- (1) Inbreeding increases homozygosity
(2) Inbreeding is essential to evolve purelines in any animal.
(3) Inbreeding selects harmful recessive genes that reduce fertility and productivity
(4) Inbreeding helps in accumulation of superior genes and elimination of undesirable genes

Q125. Match the following organisms with the products they produce

- | | |
|-----------------------|----------------------|
| (a) Lactobacillus | (i) Cheese |
| (b) Saccharomyces | (ii) Curd cerevisiae |
| (c) Aspergillus niger | (iii) Citric Acid |
| (d) Acetobacter aceti | (iv) Bread |
| | (v) Acetic Acid |

Select the correct option.

- | | | | |
|-----------|------|-------|-------|
| (a) | (b) | (c) | (d) |
| (1) (ii) | (iv) | (v) | (iii) |
| (2) (ii) | (iv) | (iii) | (v) |
| (3) (iii) | (iv) | (v) | (i) |
| (4) (ii) | (i) | (iii) | (v) |

Q126. What is the direction of movement of sugars in phloem?

- (1) Non-multidirectional (2) Upward
(3) Downward (4) Bi-directional

Q127. In some plants, the female gamete develops into embryo without fertilization. This phenomenon is known as

- (1) Autogamy (2) Parthenocarpy
(3) Syngamy (4) Parthenogenesis

Q128. Persistent nucellus in the seed is known as

- (1) Chalaza (2) Perisperm (3) Hilum (4) Tegmen
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- Q129.** What map unit (Centimorgan) is adopted in the construction of genetic maps?
- (1) A unit of distance between two expressed genes representing 10% cross over.
 - (2) A unit of distance between two expressed genes representing 100% cross over.
 - (3) A unit of distance between genes on chromosomes, representing 1% cross over.
 - (4) A unit of distance between genes on chromosomes, representing 50% cross over.
- Q130.** What would be the heart rate of a person if the cardiac output is 5 L, blood volume in the ventricles at the end of diastole is 100 mL and at the end of ventricular systole is 50 mL?
- (1) 50 beats per minute
 - (2) 75 beats per minute
 - (3) 100 beats per minute
 - (4) 125 beats per minute
- Q131.** Thiobacillus is a group of bacteria helpful in carrying out.
- (1) Nitrogen fixation
 - (2) Chemoautotrophic fixation
 - (3) Nitrification
 - (4) Denitrification
- Q132.** Which of the following factors is responsible for the formation of concentrated urine?
- (1) Low levels of antidiuretic hormone
 - (2) Maintaining hyperosmolarity towards inner medullary interstitium in the kidneys.
 - (3) Secretion of erythropoietin by Juxtaglomerular complex
 - (4) Hydrostatic pressure during glomerular filtration
- Q133.** Which of the following statements regarding mitochondria is incorrect?
- (1) Outer membrane is permeable to monomers of carbohydrates, fats and proteins.
 - (2) Enzymes of electron transport are embedded in outer membrane.
 - (3) Inner membrane is convoluted with infoldings.
 - (4) Mitochondrial matrix contains single circular DNA molecule and ribosomes.
- Q134.** Xylem translocates.
- (1) Water only
 - (2) Water and mineral salts only
 - (3) Water, mineral salts and some organic nitrogen only
 - (4) Water, mineral salts, some organic nitrogen and hormones
- Q135.** Cell in G_0 phase :
- (1) exit the cell cycle
 - (2) enter the cell cycle
 - (3) suspend the cell cycle
 - (4) terminate the cell cycle
- Q136.** Which of the statements given below is not true about formation of Annual Rings in trees?
- (1) Annual ring is a combination of spring wood and autumn wood produced in a year
 - (2) Differential activity of cambium causes light and dark bands of tissue early and late wood respectively.
 - (3) Activity of cambium depends upon variation in climate.
 - (4) Annual rings are not prominent in trees of temperate region.
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- Q137.** Which of the following ecological pyramids is generally inverted?
- (1) Pyramid of numbers in grassland (2) Pyramid of energy
(3) Pyramid of biomass in a forest (4) Pyramid of biomass in a sea
- Q138.** Placentation in which ovules develop on the inner wall of the ovary or in peripheral part, is
- (1) Basal (2) Axile (3) Parietal (4) Free central
- Q139.** Which of the following protocols did aim for reducing emission of chlorofluorocarbons into the atmosphere?
- (1) Montreal Protocol (2) Kyoto Protocol
(3) Gothenburg Protocol (4) Geneva Protocol
- Q140.** Which of the following contraceptive methods do involve a role of hormone?
- (1) Lactational amenorrhea, Pills Emergency contraceptives.
(2) Barrier method, Lactational amenorrhea, Pills.
(3) CuT, Pills, Emergency contraceptives.
(4) Pills, Emergency contraceptives, Barrier methods.
- Q141.** Tidal Volume and Expiratory Reserve Volume of an athlete is 500 mL and 1000 mL, respectively. What will be his Expiratory Capacity if the Residual Volume is 1200 mL?
- (1) 1500 mL (2) 1700 mL (3) 2200 mL (4) 2700 mL
- Q142.** What is the fate of the male gametes discharged in the synergid?
- (1) One fuses with egg other(s) degenerate (s) in the synergid.
(2) All fuse with the egg.
(3) One fuses with the egg, other(s) fuse(s) with synergid nucleus.
(4) One fuses with the egg and other fuses with central cell nuclei.
- Q143.** What is the site of perception of photoperiod necessary for induction of flowering in plants?
- (1) Lateral buds (2) Pulvinus (3) Shoot apex (4) Leaves
- Q144.** Select the correctly written scientific name of Mango which was first described by Carolus Linnaeus.
- (1) *Mangifera indica* Car. Linn. (2) *Mangifera indica* Linn.
(3) *Mangifera indica* (4) *Mangifera Indica*
- Q145.** Following statements describe the characteristics of the enzyme Restriction Endonuclease. Identify the incorrect statement.
- (1) The enzyme cuts DNA molecule at identified position within the DNA.
(2) The enzyme binds DNA at specific sites and cuts only one of the two strands.
(3) The enzyme cuts the sugar-phosphate backbone at specific sites on each strand.
(4) The enzyme recognizes a specific palindromic nucleotide sequence in the DNA.
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Q154. Which of the following features of genetic code does allow bacteria to produce human insulin by recombinant DNA technology?

- (1) Genetic code is not ambiguous (2) Genetic code is redundant
(3) Genetic code is nearly universal (4) Genetic code is specific

Q155. Which of the following sexually transmitted diseases is not completely curable?

- (1) Gonorrhoea (2) Genital warts
(3) Genital herpes (4) Chlamydia

Q156. Which of the following statements is incorrect?

- (1) Viroids lack a protein coat.
(2) Viruses are obligate parasites.
(3) Infective constituent in viruses is the protein coat.
(4) Prions consist of abnormally folded proteins.

Q157. Match the following organisms with their respective characteristics :

- | | |
|-------------------|-------------------------|
| (a) Pila | (i) Flame cells |
| (b) Bombyx | (ii) Comb plates |
| (c) Pleurobrachia | (iii) Radula |
| (d) Taenia | (iv) Malpighian tubules |

Select the correct option from the following :

- (a) (b) (c) (d)
(1) (iii) (ii) (i) (iv)
(2) (iii) (iv) (ii) (i)
(3) (ii) (iv) (iii) (i)
(4) (iii) (ii) (iv) (i)

Q158. Expressed Sequence Tags (ESTs) refers to :

- (1) Genes expressed as RNA
(2) Polypeptide expression
(3) DNA polymorphism
(4) Novel DNA sequences

Q159. Which is of the following statements is incorrect?

- (1) Morels and truffles are edible delicacies.
(2) Claviceps is a source of many alkaloids and LSD.
(3) Conidia are produced exogenously and ascospores endogenously.
(4) Yeasts have filamentous bodies with long thread-like hyphae.
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Q160. Match Column - I with Column - II

Column - I

Column - II

(a) Saprophyte

(i) Symbiotic association of fungi with plant roots

(b) Parasite

(ii) Decomposition of dead organic materials

(c) Lichens

(iii) Living on living plants or animals

(d) Mycorrhiza

(iv) Symbiotic association of algae and fungi

Choose the correct answer from the option

given below

(a) (b) (c) (d)

(1) (i) (ii) (iii) (iv)

(2) (iii) (ii) (i) (iv)

(3) (ii) (i) (iii) (iv)

(4) (ii) (iii) (iv) (i)

Q161. Which of the following glucose transporters is insulin-dependent?

(1) GLUT I

(2) GLUT II

(3) GLUT III

(4) GLUT IV

Q162. Which of the following immune responses is responsible for rejection of kidney graft?

(1) Auto-immune response

(2) Humoral immune response

(3) Inflammatory immune response

(4) Cell-mediated immune response

Q163. Use of an artificial kidney during hemodialysis may result in :

(a) Nitrogenous waste build-up in the body

(b) Non-elimination of excess potassium ions

(c) Reduced absorption of calcium ions from gastro-intestinal tract

(d) Reduced RBC production

Which of the following options is the most appropriate?

(1) (a) and (b) are correct

(2) (b) and (c) are correct

(3) (c) and (d) are correct

(4) (a) and (d) are correct

Q164. Which of the following statements is correct?

(1) Cornea is an external, transparent and protective proteinaceous covering of the eye-ball.

(2) Cornea consists of dense connective tissue of elastin and can repair itself.

(3) Cornea is convex, transparent layer which is highly vascularised.

(4) Cornea consists of dense matrix of collagen and is the most sensitive portion the eye.

Q165. The frequency of recombination between gene pairs on the same chromosome as a measure of the distance between genes was explained by :

(1) T.H. Morgan

(2) Gregor J. Mendel

(3) Alfred Sturtevant

(4) Sutton Boveri

Q166. Match the following genes of the Lac operon with their respective products :

- | | |
|------------|----------------------------|
| (a) i gene | (i) β -galactosidase |
| (b) z gene | (ii) Permease |
| (c) a gene | (iii) Repressor |
| (d) y gene | (iv) Transacetylase |

Select the correct option.

- (a) (b) (c) (d)
(1) (i) (iii) (ii) (iv)
(2) (iii) (i) (ii) (iv)
(3) (iii) (i) (iv) (ii)
(4) (iii) (iv) (i) (ii)

Q167. It takes very long time for pineapple plants to produce flowers. Which combination of hormones can be applied to artificially induce flowering in pineapple plants throughout the year to increase yield?

- | | |
|-----------------------------------|---------------------------------|
| (1) Auxin and Ethylene | (2) Gibberellin and Cytokinin |
| (3) Gibberellin and Abscisic acid | (4) Cytokinin and Abscisic acid |

Q168. Identify the cells whose secretion protects the lining of gastro-intestinal tract from various enzymes.

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|-----------------|------------------|-------------------|--------------------|
| (1) Chief Cells | (2) Goblet Cells | (3) Oxyntic Cells | (4) Duodenal Cells |
|-----------------|------------------|-------------------|--------------------|

Q169. Which of the following can be used as a biocontrol agent in the treatment of plant disease?

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|-----------------|---------------|--------------|-------------------|
| (1) Trichoderma | (2) Chlorella | (3) Anabaena | (4) Lactobacillus |
|-----------------|---------------|--------------|-------------------|

Q170. Phloem in gymnosperms lacks :

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|--------------------------------------|------------------------------------------|
| (1) Albuminous cells and sieve cells | (2) Sieve tubes only |
| (3) Companion cells only | (4) Both sieve tubes and companion cells |

Q171. Extrusion of second polar body from egg nucleus occurs :

- (1) after entry of sperm but before fertilization
- (2) after fertilization
- (3) before entry of sperm into ovum
- (4) simultaneously with first cleavage

Q172. Under which of the following conditions will there be no change in the reading frame of following mRNA?

5' AACAGCGGUGCUAAU3'

- (1) Insertion of G at 5th position
- (2) Deletion of G from 5th position
- (3) Insertion of A and G at 4th and 5th positions respectively
- (4) Deletion of GGU from 7th, 8th and 9th positions

Q173. The concept of "Omnis cellula-e cellula" regarding cell division was first proposed by

- | | | | |
|--------------------|---------------------|---------------|---------------|
| (1) Rudolf Virchow | (2) Theodor Schwann | (3) Schleiden | (4) Aristotle |
|--------------------|---------------------|---------------|---------------|

Q174. What triggers activation of protoxin to active Bt toxin of *Bacillus thuringiensis* in boll worm?

- | | |
|------------------------|-----------------------------|
| (1) Body temperature | (2) Moist surface of midgut |
| (3) Alkaline pH of gut | (4) Acidic pH of stomach |

Q175. Identify the correct pair representing the causative agent of typhoid fever and the confirmatory test for typhoid.

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|--------------------------------------|-------------------------------------------|
| (1) Plasmodium vivax / UTI test | (2) Streptococcus pneumoniae / Widal test |
| (3) Salmonella typhi / Anthrone test | (4) Salmonella typhi / Widal test |

Q176. What is the genetic disorder in which an individual has an overall masculine development gynaecomastia, and is sterile ?

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|-----------------------|----------------------------|
| (1) Turner's syndrome | (2) Klinefelter's syndrome |
| (3) Edward syndrome | (4) Down's syndrome |

Q177. Polyblend, a fine powder of recycled modified plastic, has proved to be a good material for

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|---------------------------|----------------------------|
| (1) Making plastic sacks | (2) Use as a fertilizer |
| (3) Construction of roads | (4) Making tubes and pipes |

Q178. Which of these following methods is the most suitable for disposal of nuclear waste?

- (1) Shoot the waste into space
- (2) Bury the waste under Antarctic ice-cover
- (3) Dump the waste within rocks under deep ocean
- (4) Bury the waste within rocks deep below the Earth's surface

Q179. Match the following hormones with the respective disease

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|-----------------------|-------------------------|
| (a) Insulin | (i) Addison's disease |
| (b) Thyroxin | (ii) Diabetes insipidus |
| (c) Corticoids | (iii) Acromegaly |
| (d) Growth Hormone | (iv) Goitre |
| (v) Diabetes mellitus | |

Select the correct option.

- (a) (b) (c) (d)
- (1) (v) (i) (ii) (iii)
 - (2) (ii) (iv) (iii) (i)
 - (3) (v) (iv) (i) (iii)
 - (4) (ii) (iv) (i) (iii)

Q180. Select the correct option.

- (1) 8 th , 9 th and 10 th pairs of ribs articulate directly with the sternum.
 - (2) 11 th and 12 th pairs of ribs are connected to the sternum with the help of hyaline cartilage.
 - (3) Each rib is a flat thin bone and all the ribs are connected dorsally to the thoracic vertebrae and ventrally to the sternum.
 - (4) There are seven pairs of vertebrosteral, three pairs of vertebrochondral and two pairs of vertebral ribs.
-