

9TH CLASS
BIOLOGICAL SCIENCE
CHAPTER WISE
OBJECTIVE TYPE
BIT BANK



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Chapter 1: Cell its structure and Functions

1. Onion cell are rectangular while cheek cells are _____ In shape. []
 A. Rectangular B. Circular c. Oval D. None
2. Cells are enclosed by a plasma membrane composed of _____ and _____ []
 A. Lipids , proteins B. proteins, lipids C. Matrix, Cristae D. Cell sap, cell protein
3. A. Venu said nucleus was named by Robert Brown in the year 1841
 B. Vamsi said cells was discovered by Robert Hooke . []
 A. [A] is true and [B] is false B. [A] is false and [B] is true
 C. Both [A] , [B] are true D. Both [A] , [B] are false
4. _____ maintain the turgur pressure with in the cell. []
 A. Lysosomes B. Ribosomes C. Vacuole D. Mitochondria
5. Ribosomes are formed by _____ []
 A. RNA B. DNA C. ATP D. Chloroplast
6. Find the mismatch pair. []
 1. Lysosomes ---- suicidal bags
 2. Mitochondria ---- Power house of the cell
 3. Nucleus ---- Energy currency
 A. 1 B. 2,3 C. 3 D. none of these
7. P. Srikanth said Schleiden was a botanist.
 Q. Krishna said Schwann was a zoologist.
 Which one is correct []
 A. both P and Q are correct B. P is correct, Q is false
 C. Both P and Q are false D. P is false , Q is correct
8. _____ play a vital role in carrying out the Photosynthesis []
 A. Leucoplast B. chloroplast C. chromoplast D. None

9. Euglena is a _____ animal. []
 A. prokaryotic B. Eukaryotic C. Unicellular D. multi cellular
10. _____ is responsible for cellular respiration in the plants. []
 A. chloroplast B. Chromoplast C. Mitochondria D. lysosome
11. _____ is a plastid in green colour . []
 A. mitochondria B. Chloroplast C. Chromosome D. Granum
12. The _____ regulates and controls all the functions of a cell. []
 A. Nucleus B. Vacuole C. Ribosome D. Lysosome
13. _____ mitochondria are present in every cell. []
 A. 50-100 B. 100-120 C. 120-150 D. 100-150
14. Cell theory are proposed by []
 A. Rudolf Virchow B. Schleiden C. Schwann D. B , C
15. The colour less plastids are called as _____ []
 A. Chloroplasts B. Chromoplasts C. Leucoplasts D. All
16. Cell wall is made up of with _____ []
 A. Strach B. Glycogen C. Cellulose D. All
17. In algae chloroplasts are found in []
 A. Dots B. Hadders, stars C. Cylindrical D. None
18. Cell wall is absent in []
 A. plants B. phytoplanktons C. Animals D. None
19. Identify the prokaryotic cell []
 A. Bacterium B. Cyano Bacteria C. paramoecium D. both A and B
20. The organelle which contains digestive enzymes []
 A. cell wall B. Cell membrane C. plasma membrane D. All of the above
21. The storage sacs are called as _____ []
 A. granules B. vescles C. molecules D. Vacuoles

22. Mitochondria is _____ times smaller than nucleus []
 A. 50 B. 100 C. 150 D. 200
23. RER helps in the manufacture of _____ []
 A. Carbohydrates B. Proteins C. Lipids D. All of the above
24. SER helps in the manufacture of []
 A. Proteins B. Lipids C. Carbohydrates D. Vitamins
25. The fluid inside the nucleus is known as []
 A. Cytoplasm B. Nucleoplasm C. Protoplasm D. Germplasm

Chapter 2 : Plant Tissues

1. Plants are usually _____ []
 A. unicellular B. multicellular C. Both A and B D. None
2. Who wrote the book "Anatomy of plants" []
 A. Robert brown B. Darwin C. Swan D. Nehemia grew
3. Vascular tissue can transport the nutrients up to the _____ height. []
 A. 200ft B. 300ft C. 100ft D. 330ft
4. Photosynthesis takes place through []
 A. Roots B. stomata C. chloroplast D. Lysosome
5. The tissue protect the plant body is _____ []
 A. Meristematic tissue B. vascular tissue C. dermal tissue D. ground tissue
6. **statement** 1. Areas from which branching take place there is intercalary meristematic tissue
Statement 2. It is also called cambium []
 A. 1 and 2 correct B. Both are false C. only 1 is true D. only 2 is true
7. The dermal, ground, vascular tissues are developed from _____ tissues []
 A. Meristematic B. parenchyma C. xylem D. phloem .
8. Gum is the secreted form _____ layer of Gum tree []
 A. epidermis B. Dermis c. mesodermis D. None

9. The period of Nehemiah Grew is []
 A. 1641 - 1712 B. 1612 - 1701 C. 1621 - 1649 D. 1642 -1913
10. The book of "Anatomy of plants" published in the year []
 A. 1862 B. 1762 C. 1662 D. 1682
11. Vascular bundle mainly consists of []
 A. Xylem B. phloem C. Both A and B D. None
12. Stomata is also called as _____ []
 A. Chloroplast B. Air pores c. Air vessels D. None
13. Find the odd one out []
 A. Trachoid cells B. Companion cells C. Tubular vessels D. Parenchyma
14. The girth of the stem increased due to []
 A. Apical meristematic B. lateral C. cambium D. None
15. _____ tissue brings about over all growth and repair []
 A. phloem B. Meristematic C. vascular D. None
16. The chemical substance used to observe onion peel is _____ []
 A. Saffranin B. Glycerine C. janus green D. None
17. Statement 1: small and thin cell wall
 Statement 2: Continuously dividing cells
 These statements belongs to _____ tissue. []
 A. Dermal B. vascular C. Meristematic D. None
18. Desert plants cell wall have _____ and _____ []
 A. Thin and small B. Thick and small C. Thin and waxy D. Thick and waxy
19. The height of the Eucalyptus is _____ []
 A. 210 ft B. 220 ft C. 200 ft d. 300 ft
20. Expand T.S []
 A. Transparent section B. Transport section C. text section D. Transverse section

21. Expand L. S []
 A. Last section B. Lenial section C. Longitudinal section D. Latitudinal section
22. The vascular tissue gives _____ support to the plant. []
 A. mechanical B. electrical C. physical D. None
23. _____ tissue is mainly dividing tissue present in the growing regions. []
 A. Meristematic B. vascular C. Dermal D. None
24. _____ tissue conducts transportation. []
 A. Meristematic B. Dermal C. Vascular D. None
25. _____ can absorb water from the soil. []
 A. Roots B. Leaves C. both A and B D. stem
26. Grew coined the term _____ []
 A. aerenchyma B. chlorenchyma C. parenchyma D. None
27. Statement 1. Ground tissue consists of Parenchyma , Collenchyma, Sclerenchyma
 Statement 2. Every plant is a autotroph []
 A. only 1 true B. only 1 false C. both are true D. both are false
28. Find mis matched pair []
 1. parenchyma ---- contain chloroplast
 2. Aerenchyma ---- stores water or food
 3. storage tissue ---- large air cavities
 A. 1,2 B. 3,1 C. 2,3 D. None
29. Grew began his work on the study of internal structure of the _____ []
 A. Plants B. Animals C. Micro organisms D. None
30. Find the odd one []
 A. parenchyma B. aerenchyma C. storage tissue D. epidermis
31. Pramod said that acacia is Gum tree
 Ram said that Acacia is not a Gum tree []

A. Pramod correct b. Ram correct C. Pramod wrong D . Ram wrong

32. Sundar said that Histology is the study of plant tissues

Phani said that histology is the study of animal tissues.

who is true

[]

A. Sundar B. Phani C. Both D. None

33. Statement1. Saipavan said that vascular tissue is also called conductive tissue

Statement2. Rajshekar said that xylem and phloem are called as vascular bundle

[]

A. 1 correct B. 2 correct C. Both are correct D. None

Chapter 3:Animal Tissues

1. Average life span of red blood cells

[]

A. 100 days B.120 days C. 80 days D. 110 days

2. The tissue which is responsible for movement in our body is known as _____

[]

A.Muscular tissue B. Nervous tissue C. Connective tissue D. Epithilial tissue

3. The connective tissue that connect muscle to bone is called _____

[]

A. Ligament B. Cartilage C. Tendon d. All the above

4. The substance that present clotting of blood in blood vessels

[]

A. Haemoglobin B. Heparin C. Hirudine D. Haemolycine

5. Which blood group is known as universal donor

[]

A. A B. B C. AB D. O

6. Who founded new blood relation among us

[]

A. Karl land Steiner B. Nehemiah grew C. Whittaker D. Robert Brown

7. _____ is made up of cardiac muscle.

[]

A. Heart B. lungs C. Kidney D. Brain

8. Tissue that connects muscle to bone in humans.

[]

A. Bone B. ligament C. Both A and B D . Tendon

9. Which animals have RBC without nucleus []
 A. Camel B. Lama C. Both A and B D. cow
10. Bone is made up of []
 A. Calcium phosphate B. Calcium carbonate C. Sulphuric acid D. Both A and B
11. The cells of the bone is called _____ []
 A. Fibro blast B. Areolar C. Adipose D. Osteocytes
12. Which of the following animals have blue colour blood. []
 A. Elephant B. Lion C. Lizard D. snail
13. Cockroach blood is _____ in colour. []
 A. red b. blue C. white D. black
14. Match the following []
 i. Areolar Tissue [] a. Shark
 ii. Tendon [] b. Fibroblast
 iii. Cartilage [] c. Coliagen
 A. i – a, ii – b, iii – c B. i – b, ii – c, iii – a C. i – c, ii – a, iii – b D. i – c, ii – b, iii – a
15. _____ do not have ability of regeneration. []
 A. Narve cells B. Nucleus C. Both A and B D. Brain
16. A : Blood group AB is called universal donoars []
 B : Blood group O is called universal receptors
 A. both A and B are true B. both A and b are false
 C. A is true , B is false D. A is false , B is true
17. Monocytes are also called as []
 A. washing cells B. Floating cells C. Scavengers D. currency of the cells
18. Match the following []
 1. Brain [] a. Nervous tissue
 2. blood [] b. Muscle tissue

3. Heart [] c. Connective tissue
- A. 1 – a, 2 – b, 3 – c B. 1 – b, 2 – c, 3 – a C. 1 – c, 2 – a, 3 – b D. None

Chapter 4: Plasma Membrane

1. The structure which control the entry and exit of the materials in to the cell is _____ []
- A. Cell wall B. cell membrane C. both D. None of them
2. The smell of the flower reaches us through _____ process []
- A. endosmosis B. ex osmosis C. diffusion D. None of them
3. The MIC gas of Bhopal tragedy spread through out the city by this process _____ []
- A. diffusion B. Osmosis C. both D. None of them
4. The structure which is permeable to all the materials is []
- A. cell wall B. cell membrane C. both D. None of them
5. O_2 and CO_2 pass through the membrane by the process of _____ []
- A. Diffusion B. Osmosis C. Both D. None
6. The term osmosis is derived from _____ []
- A. Latin B. French C. English D. Greek
7. Amoeba acquires its food by a process is called _____ []
- A. Endo cytosis B. Exo cytosis C. both D. None
8. The chemical that is used to dissolve egg shell []
- A. Conc. Hcl B. dilute Hcl C. Diulte H_2SO_4 D. conc. H_2SO_4
9. Egg shell is also dissolved by using this solution []
- A. Salt solution B. Conc. H_2SO_4 C. toilet cleaning acid D. None
10. The egg shell is made up of _____ []
- A. Hcl B. H_2SO_4 C. Na_2CO_3 D. $CaCO_3$
11. Dialysis is a _____ word. []
- A. Greek B. Latin C. French D. English

12. Osmosis does not takes place in _____ cells. []
 A. dead B. living C. both D. None
13. Plasmolysis occurs due to _____. []
 A. absorption B. end osmosis C. Osmosis D. ex osmosis
14. Solute Concentration is higher in this external solution. []
 A. hypotonic B. isotonic C. Hypertonic D. None
15. A cell placed in hypotonic solution will _____. []
 A. shrinks B. short shrinks C. swells D. No change
16. Entry of water in to root hairs is an example of _____. []
 A. Diffusion B. inhibition C. Osmosis D. Plasmolysis
17. Who discovered the process of separation of salts from sea water []
 A. Freddie Mercury B. David Borie C. Land Steiner D. Both A & B
18. Which of the following Osmosis does not takes place []
 A. kishmis B. Egg C. cement D. potato
19. Who measured the rate of diffusion of gases and liquids. []
 A. Freddie Mercury B. David Borie C. Thomas Graham D. None
20. The process of separation of salt from the sea water is called _____. []
 A. Osmosis B. Ex osmosis C. de salination D. None

Chapter 5:Diversity in Living Organisms

1. The Book ' Origin of spices " is written by _____. []
 A. Carl linnaus B. Charles Darwin C. Hackal D. Whittaker
2. The scientists who classified the plants on the basis of their medical importance are []
 A. Charles Darwin & Carl linnaeus B. A . D charaka & Sushrutha
 C. A . D charaka & Charles Darwin D. Sushrutha & carl linnaeus
3. The book vrikshayurveda was written by _____. []
 A. A.D charaka B. Sushrutha C.Parasara D. Dhanwantari

4. Vrikshayurveda mainly deals with classification of _____ []
 A. structure of the plants B. structure of the flowers C. Structure of leaves D. None
5. Vrikshayurveda means _____ []
 A. The science of the plants B. The science of animals
 C. The science of micro organisms D. The Science of parazoans
6. Haeckel classified the organisms in to _____ no. of kingdoms. []
 A. 2 B. 3 C. 4 D. 5
7. Whittaker proposed _____ kingdom system. []
 A. 2 B. 3 C. 4 D. 5
8. _____ classification is more popular till today . []
 A. Charles Darwin B. Carl Linnaeus C. Haeckel D. whittaker
9. Chatton classified organisms as _____ []
 A. Kingdoms B. Categories C. Domains D. Empires
10. The term species , genus , phyla, were defined by _____ []
 A. Charles Darwin B. Carl linnaeus C. Haeckel D. Whittaker
11. The common ancestral cell was termed as _____ []
 A. Pula B. Kala C. Suca D. Luca
12. Archae bacteria come under the category of _____ []
 A. Classifications of plants B. Classifications of animals
 C. Classifications of prokaryotes C. Classification of Eukaryotes
13. The cells which have no membrane bound nucleus is called as _____ []
 A. Prokaryotes B. Eukaryotes C. Plants D. Animals
14. The most widely accepted classifications contains _____ no of kingdoms. []
 A. 2 B. 3 C. 4 D. 5
15. The most widely accepted classification was given by _____ []
 A. Haeckel B. Whittakar C. Both D. Chatton

16. The type of reproduction that splitting into two is called as _____. []
 A. Conjugation B. Binary fussion C. Fragmentation D. regeneration
17. Lichens are the examples of _____ kingdom []
 A. Monera B. protista C. Fungi D. Algae
18. The plants which have Sporangium as reproductive structure is called _____. []
 A. Flowering plants B. Non – Flowering plants C. Gymnosperms D. Angiosperms
19. The non flowering plants are also called as _____. []
 A. Cryptogams B. Phanerogams C. angiosperms D. Gymnosperms
20. The classification of plants which have true roots and leaves belongs to _____ classification. []
 A. Thallophyta B. Bryophyta C. Petridophyta D. None
21. Euplectella belongs to animal kingdom _____. []
 A. Protista B. Porifera C. Coelenterata D. platyhelminthes
22. The classification of animals which do not have true coelom are _____. []
 A. Porifera B. coelenterata C. Platyhelmenthes D. Nematyhelmenthes
23. The phylum which have jointed legs _____. []
 A. Colenteneterata B. Nematyhelmenthes C. Annelida D. Arthropoda
24. _____ reproduce by spores []
 A. Monera B. Portisa C. Fungi D. Angiospemems & Cryptogams
25. Echidna & Duck Billed platypus are _____. []
 A. Coelenterata B. Viviparous C. Oviparous D. Marsupials
26. Scientific name of mango is _____. []
 A. Azaracta indica B. Mangifera indica C. Tamarindus indica D. Pongamia glabra

Chapter 6: Sense organs

1. _____ portion of the eye ball is visible to us. []
 A. 1/6 B. 1/7 C. 1/8 D. 1/9
2. Which type of lens is present in the human eye ? []

A. Convex B. Concave C. Biconvex D. None of these

3. The area of best vision is called as []

A. Yellow spot B. Macula C. Fovea D. All the above

4. _____ secrete tears. []

A. Sebaceous glands B. lachrymal glands C. Ceruminous glands D. Sweat glands

5. _____ among the following maintains the equilibrium of the body. []

A. Ear canal B. Tympanum C. Vestibular apparatus D. Cochlea

6. Pacinian receptors are meant for sensing _____ []

A. Temperature B. Touch C. Pressure D. Burn

7. Tympanum is connected to _____ []

A. Incus B. stapes C. malleus D. femur

8. Identify the mismatched pair []

i. Leucoderma -- Skin

ii. cataract -- nose

iii. Deafness -- Ear

A. 1, 3 B. 2, 3 C. 1 only D. 2 only

9. Melanin protects us from the harmful affects of _____. []

A. Bacteria B. virus C. Allergy D. Light

10. The disease due to the deficiency of melanin is _____. []

A. Pellagra B. Glaucoma C. Leucoderma D. Fungal

11. _____ is the largest organ in the body. []

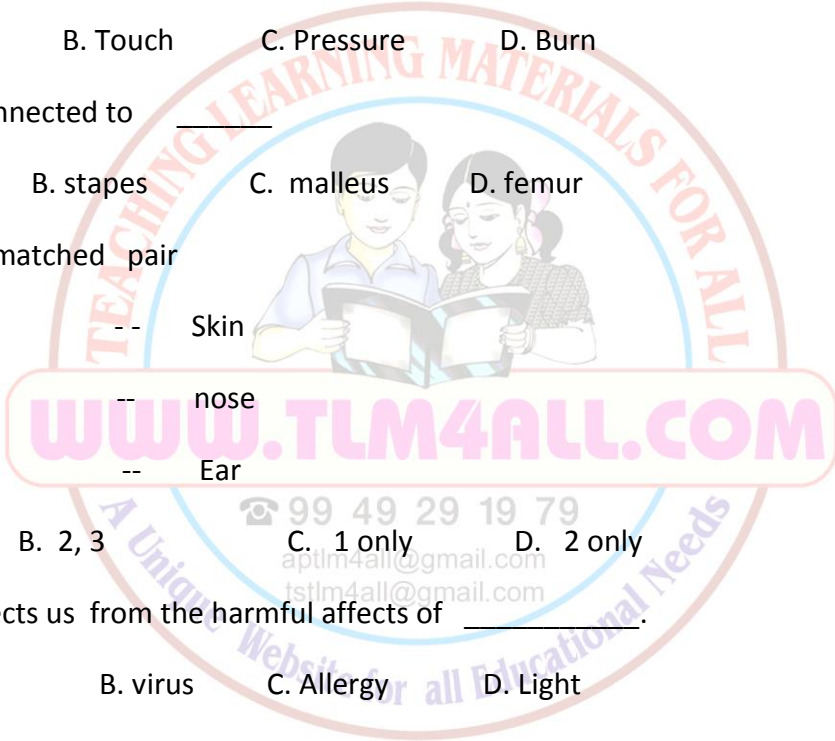
A. Heart B. Liver C. Skin B. Eye

12. _____ is the layer is skin containing dead cells. []

A. Retina B. Cornified layer C. Malpighian D. Granular

13. _____ nerve in tongue carries taste message to the brain. []

A. olfactory B. Taste line C. Optic D. Hotline



14. _____ are the gate way of knowledge. []
 A. Glands B. Sense organs C. Hormones D. Enzymes
15. The impression of an image stays in the retina for about _____ of a second. []
 A. 1/ 20 B. 1/ 18 C. 1/16 D. 1/ 14
16. _____ adjusts the size of the pupil. []
 A. Lachrymal glands B. Iris C. Eye brows D. eye socket
17. _____ are known as change detectors. []
 A. Muscles B. glands C. sense organs D. Heart
18. _____ has no photoreception. []
 A. Blind spot B. Yellow spot C. Fovea D. Macula

Chapter 7: Animal Behaviour

1. The Scientific and objective study of animal behaviour is _____. []
 A. Ecology B. Ethology C. Entomology D. Ichthyology
2. A bird that hides its food is _____. []
 A. Waver B. Ostrich C. blue jay D. Scrub jay
3. The behaviour involved in smoking and drinking alcohol by young people is _____. []
 A. Instinct B. conditioning C. imitation D. Imprint
4. Cockroaches prefer the following condition []
 A. Light and dry B. dark and dry C. Light and damp D. Damp and dark
5. A spider spinning its web come under _____. []
 A. Imprinting B. Instinct C. conditioning D. imitation
6. Which one of the following is a learnt behaviour type []
 A. Imprinting B. Instinct C. conditioning D. Imitation
7. Alex , an african grey parrot called _____ fruit as bannery. []
 A. Banana B. cherry C. apple D. mango

8. Wasp builds its nest with []
 A. Leaves B. Mud C. Thread d. sticks
9. How many words did Evin pepper burg made a parrot learn []
 A. 50 words B. 75 words C. 120 words D. 300 words
10. which behavioural type is similar to reflex action []
 A. Instinct B. Imprinting C. conditioning D. Imitation
11. Ethology is the study of []
 A. animal behaviour B. respons C. interaction of animals D. interaction of plants
12. Nikolus Timbergen and konard Lorenz won Noble prize in the year _____ []
 A. 1950 B. 1963 C. 1943 D. 1973
13. Reflex actions are also a type of _____ []
 A. Instinct B. Conditioning C. Imprinting D. Imitation
14. Match the following []
 A. Salivating dog [] A. Code language
 B. Barking of dog [] B. food
 C. Dolphins [] C. Protect
 A. a - b, b - c, c - a B. a - b, b - a, c - c C. a - c, b - a, c - b D. a - b, b - c, c - a
15. _____ is the worst smelling animal in animal kingdom. []
 A. Tasmanian Devil B. Wasp C. Alex D. African grey parrot
16. conditioning is a type of _____ behavior. []
 A. Learned behavior B. Un learned behavior C. Instinct behavior D. All the above
17. The behavior that need not to be learned []
 A. Instinct B. Imprinting C. Conditioning D. None
18. Which scientist studied animal behaviour []
 A. Ivan Pavlov B. Konrad lorenz C. James walt D. None
19. Weaver bird select three broad leaves , they are _____ []

A. One for bottom B. One for top C. One for side D. All the above

20. Who had investigated on the conditioning behaviour by using dog. []

A. Frisch B. Tinberzen C. Konrad Lorenz D. Ivan Pavlov

Chapter 8:Challenges in improving agricultural products

1. The plant absorbs water from the soil to produce _____ []

A. Carbon dioxide B. Oxygen C. Carbohydrate D. Both A and C

2. Alternating of crops preserves the []

A. Crop management B. High yielding Varities C. Soil management D. Soil fertility

3. Find the odd one out []

A. N . P . K B. Vermi compost C. Urea d. None

4. We can increase the food production by using _____ []

A. Developing yielding varities B. Alternate crops C. using chemical fertilizers D. Both A and B

5. The plant losses 9% of nitrogen. This statement is []

A. Correct B. Wrong C. Can't say D. None

6. The plant uses only _____ present of water from carbohydrates. []

A. 0.03 % B. 0 . 25 % C. 999 % D. None

7. Which are cereal crops []

A. Ragi , Bajra B Jowar , rice C. Both A and B D. None

8. Statement 1 . Pea is a annual crop
Statement 2. Leguminous crop have root nodules []

A. Both are correct B. Both are false C. A is correct D. None

9. Identify the macro nutrient in the following []

A. Iron B. Nitrogen C. Copper D. Manganese

10. Matching the following []

A. Illiusain korqana [] A. Jowar

B. Sorghum valgare [] B. Ragi

C. Pennisetum typhoidum [] Bajra

A. 1 - c, 2 - B, 3 - A B. 1 - B, 2 - C, 3 - A C. 1 - C, 2 - A, 3 - B D. 1 - B, 2 - A, 3 - C

11. Nitrogen fixing bacteria []

A. Rhizobium B. Rhifosome C. Rosome D. Bacillus

12. This crop require more quantity of water []

A. Paddy B. black gram C. Ground nut D. Bajra

13. The irrigation system helps in preserving water wastage []

A. canal irrigation B. Pond irrigation C. Drip irrigation D. None

14. Identify the miss matched pair []

1. Urea

[]

A. 46% Nitrogen

2. Superphosphate

[]

B. 0% Nitrogen

3. Ammonium sulphate

[]

C. 13% Phosphorous

A. 1 Only

B. 2 ; 3

C. 1 : 3

D. 3 Only

15. Dry organic manure is made up of []

A. Cow dung

B. hay

C. Urine

D. All the above

