

1. DNA and RNA are similar to each other because both
 1. have similar sugars
 2. are nucleotide polymers
 3. have similar pyrimidines
 4. are double stranded
 5. None of these
2. A simple technique has been developed in India by using the following organisms as biofertilizers
 1. Azotobacter and Rhizobium
 2. Azolla and Azotobacter
 3. Azolla and Rhizobium
 4. Azotobacter and Nostoc
 5. None of these
3. A sclerotium refers to a modified mycelium which is
 1. an underground structure
 2. a food storing organ
 3. a conidial type
 4. a hard resting body
 5. None of these
4. A phenomenon wherein a single gene has more than one phenotypic effect is known as
 1. Pleiotropism
 2. Epistasis
 3. Hypostasis
 4. Duplicate genes
 5. None of these
5. Which one of the following is a rich source of protein?
 1. Scytonema
 2. Spirulina
 3. Spirogyra
 4. Stigonema
 5. None of these
6. Glycolysis is also known as
 1. Gluconeogenesis
 2. EMP Pathway
 3. Hexose monophosphate shunt
 4. Photorespiration
 5. None of these
7. Rate of photosynthesis is higher in light.
 1. White
 2. Red
 3. Green
 4. Blue
 5. None of these
8. The fruit ripening hormone is
 1. Abscisic acid
 2. Cytokinin



3. Ethylene
 4. Gibberellin
 5. None of these
9. The largest herbarium in India is located at
1. New Delhi
 2. Dehradun
 3. Kolkata
 4. Pune
 5. None of these
10. International Rice Research Institute is in
1. Hyderabad
 2. Cuttack
 3. Kenya
 4. Manila
 5. None of these
11. Obligate anaerobic bacteria can
1. grow without oxygen and produce high energy
 2. grow without oxygen and produce low energy
 3. have a fermentative metabolism and a respiratory chain
 4. grow with or without oxygen and produce medium energy
 5. None of these
12. Which one of the following is the correct food chain?
1. Algae – insects – frog- peacock – snake
 2. Algae – frog – insects snake – peacock
 3. Algae – frog – insects – peacock – snake
 4. Algae – insects – frog – snake – peacock
 5. None of these
13. In paddy, the type of inflorescence is said to be
1. Raceme
 2. Panicle
 3. Thyrsus
 4. Cyathium
 5. None of these
14. Botanical name of Pearl millet (Bajra) is
1. Avena sativa
 2. Zea mays
 3. Eleusine coracana
 4. Pennisetum typhoides
 5. None of these
15. Which is the matching set in classification?
1. Neries, planaria, roundworm, earthworm
 2. Millipede, crab, centipede, cockroach
 3. Starfish, jellyfish, cuttlefish, octopus
 4. Sea-urchin, lobster, leech, locust
 5. None of these
16. The insects excrete in the form of uric acid because



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1. most of them are terrestrial
 2. the circulatory system is open
 3. the blood is colourless
 4. most of them are aquatic
 5. None of these
17. Measurement of the rate of oxygen consumption in unit volume of water over a period of time is carried out to determine
1. Fermentation
 2. Biogas generation
 3. Biosynthetic pathway
 4. Biological oxygen demand
 5. None of these
18. Biosphere is made up of
1. organism
 2. organism and lithosphere
 3. organism, lithosphere and atmosphere
 4. organism, lithosphere, atmosphere and hydrosphere
 5. None of these
19. Sudden mass death of fishes from oxygen depletion is more likely in the
1. Eutrophic lakes
 2. Oxalotrophic lakes
 3. Oligotrophic lakes
 4. Mesotrophic lakes
 5. None of these
20. The sanctuary having maximum number of rare animals is
1. Kaziranga National Park
 2. Corbett National Park
 3. Manas National Park
 4. Dudhwa National Park
 5. None of these
21. The famous 'Chipko Movement' is associated with
1. S.L. Bahuguna
 2. Indira Gandhi
 3. Jawaharlal Nehru
 4. H.N. Bahuguna
 5. None of these
22. Red data book is famous for
1. Extinct animals
 2. Endangered animals and plants
 3. Endangered animals
 4. Important wildlife
 5. None of these
23. Bottom layer of deep fresh water habitat is
1. Hypolimnion
 2. Epilimnion
 3. Thermocline



4. Metalimnion
 5. None of these
24. International Convention on Biological Diversity was ratified in the year
1. 1971
 2. 1994
 3. 1973
 4. 1990
 5. None of these
25. Which is considered as biological paradise in India?
1. Gulf of Mannar
 2. Nilgiri Bioreserve
 3. Sundarbans
 4. Nanda Devi
 5. None of these
26. National Bureau of Fish Genetic Resources (NBFGR) is located in
1. Chennai
 2. New Delhi
 3. Lucknow
 4. Bangalore
 5. None of these
27. Which of these is often called as 'cell organiser'?
1. Nucleus
 2. Centriole
 3. Nucleolus
 4. Ribosome
 5. None of these
28. The power house of the cell is
1. Nucleus
 2. Ribosome
 3. Mitochondria
 4. Lysosome
 5. None of these
29. Hardness of woody tissue is due to
1. Silica
 2. Lignin
 3. Cellulose
 4. Suberin
 5. None of these
30. Pea seeds will germinate best if soaked in a jar containing
1. H₂
 2. O₂
 3. N₂
 4. CO₂
 5. None of these
31. The shape of the growth curve is usually
1. Inverted bell Linear



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2. Sigmoid
 3. Zig-Zag
 4. None of these
32. The forces that can change the frequency of an allele in a population are
1. forward mutation, gene conversion, neutral evolution and recombination
 2. selection, mutagenesis, migration, inbreeding and random genetic drift
 3. dominance, family selection, fitness and diversification
 6. (4)gene interaction, gene transfer, gene mutation and outbreeding
 4. None of these
33. The anticodon region is present in
4. r-RNA
 5. hn-RNA
 6. m-RNA
 7. t-RNA
 8. None of these
34. In reptiles and birds, nitrogen is excreted in the form of
0. Urea
 1. Uric acid
 2. Ammonia
 3. Lipids
 4. None of these
35. Which of the following techniques are used in assaying monoclonal antibodies?
0. Flow cytometry
 1. PAGE
 2. HPLC
 3. Scintillation counter
 4. None of these
36. Which of the following synthetic polypeptides will form a triple helix?
0. (Pro-Gly)_n
 1. (Phe-Gly-Gly)_n
 2. (Pro-Gly-Gly)_n
 3. (Gly-Pro-Pro-Gly)_n
 4. None of these
37. World Health Organisation (WHO) announced the eradication of small pox as a disease in the year
0. 1988
 1. 1986
 2. 1977
 3. 1979
 4. None of these
38. A disease that attacks many in a community simultaneously is
0. an epidemic
 1. a noscomial infection
 2. a secondary infection



3. a bacteremia
 4. None of these
39. The term “Microbiology” was coined by
0. Antonie van Leeuwenhoek
 1. Robert Koch
 2. Louis Pasteur
 3. Julius Richard Petri
 4. None of these
40. Tumour causing viruses are known as
0. Oncogenic viruses
 1. Para viruses
 2. Tungro viruses
 3. Variola viruses
 4. None of these
41. Red orange colour in saffron is due to
0. Xanthophyll
 1. Chlorophyll
 2. Crocetin
 3. Polyphenols
 4. None of these
42. Choose the correct answer. Beaten rice is also known as
0. Flaked rice
 1. Polished rice
 2. Puffed rice
 3. Popped rice
 4. None of these
43. Spice bag is usually used in the processing of
0. Sauce
 1. Jam
 2. Pickle
 3. Nectar
 4. None of these
44. Cereals are
0. deficient in lysine and rich in methionine
 1. rich in lysine and deficient in methionine
 2. rich in lysine and methionine
 3. deficient in lysine and methionine
 4. None of these
45. Roasting coffee beans improve the content of
0. Pantothenic acid
 1. Niacin
 2. Riboflavin
 3. Thiamine
 4. None of these
46. Annual loss of agricultural produce in India is more due to different factors. Find out the factors in correct sequence based on the higher degree of loss to lower degree.



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- 0. Weeds followed by insects followed by diseases
 - 1. Insects followed by diseases followed by weeds
 - 2. Diseases followed by weeds followed by insects
 - 3. Weeds followed by diseases followed by insects
 - 4. None of these
47. The crop grown for grain, green manure and fodder
- 0. Lentil
 - 1. Chick pea
 - 2. Red gram
 - 3. Cow pea
 - 4. None of these
48. Seed of rice is called
- 0. Drupe
 - 1. Berry
 - 2. Caryopsis
 - 3. Pod
 - 4. None of these
49. Machine used for dehusking of pulses is
- 0. energy roll dehusker
 - 1. rubber roll dehusker
 - 2. centrifugal dehusker
 - 3. under-runner disk sheller
 - 4. None of these
50. The size of a tractor tyre may be represented as
- 0. section height x rim width
 - 1. section height x rim diameter
 - 2. section thickness x rim diameter
 - 3. section radius x rim width
 - 4. None of these

