



BIOLOGY

BOOKS - NTA MOCK TESTS

NEET MOCK TEST 21

Biology

1. A: Each cell of the sporogenous tissue is capable of giving rise to a microspore tetrads

R: Most abundant microspore tetrads is the product of simultaneous cytokinesis

- A. Pollen grain
- B. Microspore
- C. Male gametophyte
- D. Pollen mother cell

Answer: D



Watch Video Solution

2. How many of the given statements are incorrect?

A. The ovaries are located on each side of the lower abdomen.

B. Mons pubis a cushion of fatty tissue covered by skin and pubic hair.

C. A primary spermatocyte completes the second meiotic division leading to the formation of two equal, haploid cells called secondary spermatocytes, which have only 23 chromosomes each.

D. The secondary follicles get surrounded by

more layers of granulosa cells and a new theca, they are called tertiary follicles.

A. None

B. One

C. Two

D. Three

Answer: C



Watch Video Solution

3. Intra uterine devices (IUDs) are inserted by doctors or expert nurses in the uterus through vagina. These IUDs are presently available as the non- medicated IUDs (e.g., _____ 1 _____), copper releasing IUDs (_____ 2 _____) and the hormone releasing IUDs (_____ 3 _____).

A.

1	2	3
Lippes loop	Cu-7, Cu T, Progestasert,	Multiload 375, LNG-20

B.

(2)	Lippes loop	Cu-7, Cu T, Multiload 375	Progestasert, LNG-20
-----	-------------	---------------------------	----------------------

C.

1	2	3
Lippes loop, Multiload 375	Cu-7, Cu T, Progestasert,	LNG-20

D.

1	2	3
Lippes loop,	Cu-7,	Progestasert,
Multiload 375	Cu T,	LNG-20

Answer: B



Watch Video Solution

4. Choose the incorrect statement:

A. Callus is an unorganised mass of cells

B. Growth of callus culture is faster than suspension culture

C. In callus culture, if high auxin to cytokinin ratio is maintained then roots are formed

D. In callus culture, if high cytokinin to auxin ratio is maintained then shoots are formed

Answer: B



Watch Video Solution

5. The feeding of cattle should be carried out in a scientific manner with special emphasis on

A. Quality of fodder.

B. Quantity of fodder.

C. Both the quality and quantity of fodder.

D. Neither the quality nor the quantity of fodder.

Answer: C



Watch Video Solution

6. Which of these is used as vector in gene therapy for SCID

A. Arbovirus

B. Rotavirus

C. Enterovirus

D. Retrovirus

Answer: D



Watch Video Solution

7. Ecologically, the most important factor that controls the distribution of organism on Earth is

A. Rainfall

B. Temperature

C. Light

D. Humidity

Answer: B



Watch Video Solution

8. Which pigment/s is/are required for the mechanism of vision?

A. Opsin

B. Retinal

C. Both opsin and retinal

D. None of these

Answer: C



Watch Video Solution

9. Which of the following is not an invasive alien species in the Indian context?

A. Lantana

B. Parthenium

C. Eichhornia

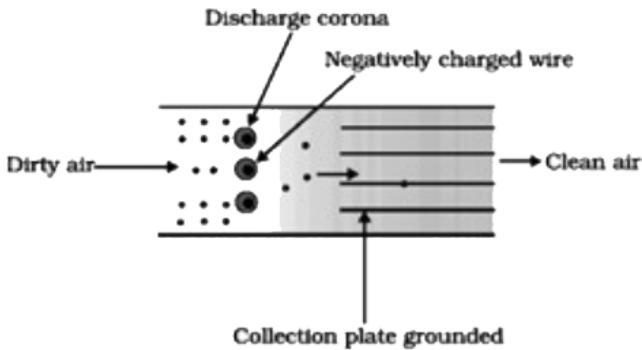
D. All of these

Answer: D



Watch Video Solution

10. The diagram provided below is used to remove which type of pollution?



- A. Particulate matter
- B. Gaseous pollution
- C. SO_2 pollution
- D. Sound pollution

Answer: A



Watch Video Solution

11. Match the columns

Column-I		Column-II
A. Nitrous oxide	(i)	Secondary pollutant from car exhausts
B. Chlorofluorocarbons	(ii)	Combustion of fossil fuels
C. Methane	(iii)	Denitrification
D. Ozone	(iv)	Refrigerators aerosols sprays
E. Carbon dioxide	(v)	Cattle, rice fields, toilets

A. A = (iii), B = (iv), C = (v), D = (i), E = (ii)

B. A = (v), B = (i), C = (iii), D = (iv), E = (ii)

C. A = (iv), B = (v), C = (i), D = (ii), E = (iii)

D. A = (ii), B = (iii), C = (iv), D = (v), E = (ii)

Answer: A



Watch Video Solution

12. Which of the following bryophytes provides a product that is commonly used as fuel?

A. Funaria

B. Sphagnum

C. Polytrichum

D. Marchantia

Answer: B



Watch Video Solution

13. Parenchyma is usually present in,

i) Cortex

ii) Phloem fibre

iii) Pericycle

iv) Pith

v) Hypodermis

vi) Medullary rays

vii) Xylem fibres

viii) Mesophyll tissue

A. i, iii, iv, vi, viii

B. i, ii, iii, iv, vi

C. i, v, vi, vii

D. i, ii, iv,vi

Answer: A



Watch Video Solution

14. The cell organelle associated with photorespiration is

A. Mesosome

B. Ribosome

C. Peroxisome

D. Lysosome

Answer: C



15. A karyotype is used to study

I) Number of chromosomes

II) Position of centromere

III) Position of chromosome

IV) Length of the arms

V) Secondary constriction

A. I, II and III

B. I, II, IV, V

C. All of these

D. I, IV, V

Answer: B



Watch Video Solution

16. Which of the organisms show mitotic divisions in both haploid and diploid cells?

A. Animals

B. Plants

C. Both of these

D. None of these

Answer: B



Watch Video Solution

17. cell undergoes mitosis in 30 minutes. Find the number of cells produced after 24 hours if initially 10^5 cells are present.

A. $2^{24} \times 10^5$

B. $2^{48} \times 10^5$

C. $2^{48} + 10^5$

D. $48 \times 10^{5-}$

Answer: B



Watch Video Solution

18. The osmotic pressure of 1 M solution of sucrose is 22.4 atm. What will be the osmotic potential of 0.1 M sucrose solution?

A. 22.4 atm

B. 2.2 atm

C. – 2.24 bars

D. 0

Answer: C



Watch Video Solution

19. How many ATP will be produced during the production of 1 molecule of acetyl CoA from 1 molecule of pyruvic acid ?

A. 3 ATP

B. 5 ATP

C. 8 ATP

D. 38 ATP

Answer: A



Watch Video Solution

20. Two important intrinsic controls which are important in plant growth and development are

A. PGRs

B. Genomic control

C. Both (a) and (b)

D. O_2 concentration

Answer: C



Watch Video Solution

21. Name the vascular connection that exists between the digestive tract and liver.

A. Venous system

B. Arterial system

C. Lymphatic system

D. Portal system

Answer: D



Watch Video Solution

22. How much blood is filtered by the kidneys per minute ?

A. 125 mL

B. 500 mL

C. 1100mL

D. 5000mL

Answer: C



Watch Video Solution

23. Which of the following sphincters guards the opening of the stomach into the duodenum?

- A. Sphincter of Oddi
- B. Pyloric sphincter
- C. Oesophageal sphincter
- D. Ileocaecal sphincter

Answer: B



Watch Video Solution

24. Incorrect statement about electrical synapse is

- A. The neurotransmitter released from the pre-synaptic membrane binds to receptors on the postsynaptic membrane
- B. Impulse conduction occurs at faster rate
- C. Pre-synaptic and post-synaptic neurons are very close to each other at synapse
- D. No requirement of neurotransmitters

Answer: A



Watch Video Solution

25. Which of the following correctly describes the functions of FSH in females?

A. It stimulates growth and development of the ovarian follicles.

B. It induces ovulation of fully mature follicles and maintains the corpus luteum.

C. It stimulates the synthesis and secretion of hormones called androgens from

testis.

D. It regulates spermatogenesis.

Answer: A



Watch Video Solution

26. How many of the given statements are true?

1. Pars nervosa stores and releases two hormones called oxytocin and vasopressin.

II. Melatonin influences the menstrual cycle.

III. Calcitonin stimulates reabsorption of Ca^{2+} by the renal tubules.

IV. After ovulation, the ruptured follicle is converted to macula lutea.

A. None

B. One

C. Two

D. Three

Answer: C



Watch Video Solution

27. The enzyme missing in Phenylketonuria is

A. Phenyl alanine hydroxylase

B. Phenyl alanine reductase

C. Phenyl oxidase

D. Phenyl oxidoreductase

Answer: A



Watch Video Solution

28. Which of the following biological phenomenon involves a bacteriophage?

A. Transformation

B. Conjugation

C. Translocation

D. Transduction

Answer: D



Watch Video Solution

29. Blind sac body plan is found in

A. Platyhelminthes and Aschelminthes

B. Molluscs and Echinodermata

C. Porifera and Coelenterata

D. Coelenterata and Platyhelminthes

Answer: D



Watch Video Solution

30. Which of the following is not a characteristic feature of phylum echinodermata?

A. Presence of water vascular system and indirect development of larvae

B. Bilaterally symmetrical and acoelomate

C. Reproduction is asexual and fertilisation is internal

D. Presence of water vascular system with a well-developed excretory system

Answer: A



Watch Video Solution

31. The Montreal Protocol has been introduced to

- A. Check depletion of the ozone layer
- B. Mitigate the climatic change
- C. Check soil erosion
- D. Preserver water resources

Answer: A



Watch Video Solution

32. In angiosperms, the endoperm is

- A. Short lived
- B. Persistent female gametophyte
- C. Formed before fertilisation
- D. Formed after fertilisation

Answer: D



Watch Video Solution

33. A large quantity of monoclonal antibodies are produced from

- A. B-Cells
- B. Myeloma cells
- C. Hybridoma cells
- D. T-Lymphocytes

Answer: C



34. Gel electrophoresis is used for

- A. Cutting of DNA into fragments
- B. Separation of DNA fragments according to their size
- C. Separation of r DNA only
- D. Isolation of DNA from cell

Answer: B



35. Common pathways of aerobic and anaerobic respiration is

A. Electron transport system

B. Kreb's

C. Glycolysis

D. Glycogenolysis

Answer: C



Watch Video Solution

36. Select the mismatch among the following.

A. Chondrichthyes -Placoid scales

B. Columba – Diaphragm

C. Balanoglossus - Proboscis glands

D. Limulus- Chitinous cuticle

Answer: B



Watch Video Solution

37. The genus of chiton (a mollusc) is

A. Chaetopleura

B. Dentalium

C. Aplysia

D. Architeuthis

Answer: A



Watch Video Solution

38. The mucosa of the stomach is lined with

A. Non-glandular simple cuboidal epithelium

B. Glandular simple cuboidal epithelium

C. Non-glandular simple columnar epithelium

D. Glandular simple columnar epithelium

Answer: D



Watch Video Solution

39. In rotifers, syngamy is absent. Which mode of reproduction is observed in this organism instead?

A. Parthenogenesis

B. Apomixis

C. Polyembryony

D. Apospory

Answer: A



Watch Video Solution

40. In which of the following locations are sacred groves found?

A. Khasi and Jaintia Hills in Meghalaya

B. Aravalli Hills of Rajasthan

C. Sarguja, Chanda and Bastar areas of
Madhya Pradesh

D. All of the above

Answer: D



Watch Video Solution

41. Which set of evolutionary stages of human were discovered before ape-man?

- A. Dryopithecus, Ramapithecus
- B. Java man, Australopithecus
- C. Australopithecus, Handy man
- D. Kenyapithecus, Heidelberg man

Answer: A



Watch Video Solution

42. Phloem sap is mainly composed of

- A. Water & sucrose
- B. Water and minerals
- C. Sucrose and minerals
- D. Minerals and hormones

Answer: A



Watch Video Solution

43. Which of the following muscles are known to be involuntary, branched and striated?

A. Skeletal muscle

B. Smooth muscle

C. Cardiac muscle

D. Both (a) and (c)

Answer: C



Watch Video Solution

44. Which of the following is a substitution of mitochondria in E. coli?

- A. Ribosome
- B. Mesosome
- C. Glyoxysome
- D. Golgi body.

Answer: B



Watch Video Solution

45. Which of the following amino acids is coded by only single codon?

A. Tyrosine

B. Phenylalanine

C. Tryptophan

D. Isoleucine

Answer: C



Watch Video Solution

46. Destruction of chlorophyll, premature falling of leaves and yellowing of leaf is caused due to the excess amounts of _____ in the atmosphere.

A. CO_2

B. SO_2

C. CO

D. Fly ash

Answer: B



Watch Video Solution

47. What is correct about the anal cerci in a cockroach?

- A. Emerge out from the 10th segment in both the sexes.
- B. Found in male cockroaches only.
- C. These are short thread like structures
- D. These are used for the purpose of reproduction.

Answer: A



Watch Video Solution

48. Which of the following structures is composed of cuboidal epithelium and contains microvilli?

A. Glomerulus

B. Ducts of glands

C. Proximal convoluted tubule of nephron

D. Distal convoluted tubule of nephron

Answer: C



Watch Video Solution

49. Which substance is incorrectly matched with its mode of absorption in the gut?

A. Na^+ - Active absorption

B. Most of the glucose- Active absorption

C. Cl^- - Simple diffusion

D. Most of the amino acids -Facilitated transport

Answer: D



Watch Video Solution

50. Which of the following is correct for mRNA synthesized in leucocytes?

A. Exons and introns do not appear in the mature RNA.

B. Exons appear but introns do not appear in the mature RNA.

C. Introns appear but exons do not appear in the mature RNA.

D. mRNA is not synthesized in leucocytes.

Answer: B



Watch Video Solution

51. In the larynx, which of the following is a thin elastic cartilaginous flap?

A. Thyroid

B. Soundbox

C. Glottis

D. Epiglottis

Answer: D



Watch Video Solution

52. Spinal cord passes through

- A. Neural canal
- B. Diocoel
- C. Central canal
- D. Ventricular system

Answer: A



Watch Video Solution

53. Which of the following disorders show a karyotype of 47 chromosomes (XXY)?

A. Turner's Syndrome

B. Down's Syndrome

C. Trisomy 21

D. Klinefelter's Syndrome

Answer: D



Watch Video Solution

54. In sickle cell anaemia glutamic acid is replaced by valine Which one of the following triplets codes for valine ?

A. GGG

B. GAG

C. GAA

D. GUG

Answer: D



Watch Video Solution

55. Distance between the genes and percentage of recombination shows

- A. A direct relationship
- B. An inverse relationship
- C. A parallel relationship
- D. No relationship

Answer: A



Watch Video Solution

56. In the human brain, the cerebral aqueduct passes through:

- A. Corpus callosum
- B. Cerebral hemispheres
- C. Midbrain
- D. Spinal cord

Answer: C



Watch Video Solution

57. Protochordates are

A. Salpa, Doliolum, Branchiostoma

B. Ascidia, Lancelet, Hag fish

C. Doliolum, Balanoglossus, Saccoglossus

D. Aplysia, Salpa, Amphioxus

Answer: A



Watch Video Solution

58. Racemose inflorescence is observed in the family:

A. Oleaceae

B. Liliaceae

C. Solanaceae

D. Fabaceae

Answer: D



Watch Video Solution

59. The stem with bicollateral vascular bundles and flowers with synandrous condition is found in

- A. Compositae
- B. Solanaceae
- C. Cucurbitaceae
- D. Asclepiadaceae

Answer: C



Watch Video Solution

60. Which organ is responsible for the secretion of the erythropoietin hormone?

A. Heart

B. Kidney

C. Spleen

D. Anterior pituitary

Answer: B



Watch Video Solution

61. Which of the following is incorrect about spermatogenesis?

A. Meiosis-I leads to the formation of secondary spermatocytes

B. Meiosis-II leads to the formation of spermatids

C. Production of one sperm and 3 polar bodies

D. Primary spermatocytes are diploid in nature

Answer: C



Watch Video Solution

62. Which taxonomical aid provides protection and identification of animals in artificial habitat?

A. Museum

B. Herbarium

C. Zoological park

D. Botanical garden

Answer: C



Watch Video Solution

63. Bacteria that are saprotrophs but can be a parasite and cause disease upon introduction to host body are called as

A. Obligate saprotroph

B. Obligate parasite

C. Facultative parasite

D. Facultative saprotroph

Answer: C



Watch Video Solution

64. Which of the following changes does not occur during conversions of secondary follicle into tertiary follicle?

- A. Development of antrum.
- B. Differentiation of theca layers.
- C. Primary oocyte completes meiosis-I.
- D. Second polar body is released.

Answer: D



Watch Video Solution

65. Oogamous type of sexual reproduction is found in

A. Chlamydomonas

B. Volvox

C. Spirogyra

D. Both (A) and (B)

Answer: B



Watch Video Solution

66. In which of the following plants, both pollen grains and seeds have a wing- shaped structure ?

A. Cycas

B. Selaginella

C. Azolla

D. Pinus

Answer: D



Watch Video Solution

67. In chloroplast, the site for initial photochemical reaction is

A. Intermembrane space

B. Inner member are of chloroplast

C. Thyllakoid membrane

D. Stroma

Answer: C



Watch Video Solution

68. In which of the following enzyme non-protein part is haeme?

A. Carbonic anhydrase

B. Peroxidase

C. Catalase

D. Both (B) and (C)

Answer: D



Watch Video Solution

69. S.L. Miller gave the experimental proof of the theory of chemical evolution. Which

chemical substances were obtained by him during the experiment?

A. RNA

B. DNA

C. Amino acids

D. Complex proteins

Answer: C



Watch Video Solution

70. Tubulin protein is synthesized in which phase of cell cycle?

- A. Prophase
- B. Metaphase
- C. Interphase
- D. Telophase

Answer: C



Watch Video Solution

71. Which of the following is not common between facilitated transport and active transport?

A. Uphill transport

B. Highly selective

C. Transport saturates

D. Requirement of special membrane proteins

Answer: A



Watch Video Solution

72. All the following statements are correct about homologous organs, except

A. Homologous organs share common origin

B. Homologous organs perform same functions

C. Homologous organs show divergent evolution

D. Members having homologous organs share common ancestors.

Answer: B



Watch Video Solution

73. The product of light reaction in green algae is

A. ATP, NADPH + H^+

B. NAD^+ +

C. NADP

D. ATP and NADH

Answer: A



Watch Video Solution

74. Identify the disease which is characterized by the following symptoms:

A. Alveoli filled with fluid

B. Fever chills headache

C. Coughing

A. Pneumonia

B. Diphtheria

C. Small pox

D. Hepatitis

Answer: A



Watch Video Solution

75. Primary acceptor of TCA cycle is

A. Oxaloacetate

B. Acetyl CoA

C. Citric acid

D. Pyruvic acid

Answer: A



Watch Video Solution

76. Which of the following shows plasticity?

A. Cotton

B. Silk cotton

C. Neem

D. More than one option is correct

Answer: A



Watch Video Solution

77. Which of the following is not true about the stomach in humans?

A. Oesophagus opens in cardiac part of stomach.

B. Pepsin is the proteolytic enzyme of stomach.

C. Rennin is the proteolytic enzyme in gastric juice of infants.

D. The secretion of gastric glands does not have lipases

Answer: D



Watch Video Solution

78. Which of the following organism is not correctly matched with its respiratory organs?

	Column I (Organisms)	Column II (Respiratory organs)
(a)	Earthworms	Moist cuticle
(b)	Aquatic molluscs	Gills
(c)	Frogs	Pulmonary and cutaneous respiration
(d)	Flatworms	Gills

A. (a)

B. (b)

C. (c)

D. (d)

Answer: D



Watch Video Solution

79. From the given list how many are not associated with asexual reproduction?

Sugarcane, ginger, maize, barley, tobacco, pea, sunflower, potato, Bryophyllum

A. Three

B. Two

C. Five

D. Four

Answer: C



Watch Video Solution

80. Amoebiasis' (amoebic dysentery) is caused by

A. Entamoeba coli

B. E. coli

C. Entamoeba histolytica

D. Entamoeba dispar

Answer: C



Watch Video Solution

81. Minerals required for germination of pollen grain on stigma are

A. Ca, B

B. N, P

C. Mg, S

D. Fe, Ca

Answer: A



Watch Video Solution

82. Grasshopper is an example of

A. XY type of sex-determination

B. XO type of sex-determination

C. Environmental sex determination

D. Genie Sex balance theory

Answer: B



Watch Video Solution

83. *Monascus purpureus* is a yeast used commercially in the production of:-

- A. Citric acid
- B. Streptokinase
- C. Statins
- D. Cyclosporin

Answer: C



Watch Video Solution

84. Amphetamines and caffeine are respectively

- A. Amphetamines Caffeine
Stimulant Depressant
- B. Amphetamines Caffeine
Depressant Depressant
- C. Amphetamines Caffeine
Depressant Stimulant
- D. Amphetamines Caffeine
Stimulant Stimulant

Answer: D



Watch Video Solution

85. Which of the following is not haploid?

- A. Primary spermatocyte
- B. Spermatogonia
- C. Ootid
- D. Both (a) and (b)

Answer: D



Watch Video Solution

86. Select the correct statement.

A. Population of India has crossed 1 billion in May 2000.

B. Cervical caps and vaults both are barrier methods of contraception.

C. 'Saheli' is once a month pill.

D. Government of India has legalized MTP act in 1981

Answer: B



Watch Video Solution

87. Mark the correct pair.

- A. Migration - Polar bear
- B. Diapause - Zooplanktons
- C. Diapause - Desert lizards
- D. Suspend- Locust

Answer: B



Watch Video Solution

88. The Abingdon tortoise became extinct on Galapagos island within a decade of the introduction of goats. This is an example of

- A. Resource Partitioning
- B. Competitive release
- C. Competitive inclusion
- D. Interference competition

Answer: D



Watch Video Solution

89. The radula is found in _____ and helps in _____

- A. Mollusca, feeding.
- B. Mollusca, respiration
- C. Echinodermata, excretion
- D. Echinodermata, circulation

Answer: A



90. The ability on an environment to support a population called its

- A. Biotic Potential
- B. Purifying capacity
- C. Carrying Capacity
- D. Environmental Resistance

Answer: C



