
DATE: 11-12-2020

TIME: 60mins

1 The common characteristics between tomato and potato will be maximum at the level of their

Correct Options:

(A) family

Solution:

Ans. (a)

2 Biosystematics aims at

Correct Options:

(C) the classification of organisms based on their evolutionary history and establishing their phylogeny on the totality of various parameters from all fields of studies

Solution:

Ans. (c)

3 A taxon is

Correct Options:

(D) a taxonomic group of any ranking.

Solution:

Ans. (d)

4 Species are considered as

Correct Options:

(D) real units of classification devised by taxonomists

Solution:

Ans. (d)

5 Binomial nomenclature was given by

Correct Options:

(A) Linnaeus

Solution:

Ans. (a)

6 More number of common characters are observed in members of a

Correct Options:

(B) Species

Solution:

Ans. (b)

7 One of the most important functions of botanical gardens is that

Correct Options:

(C) They allow ex situ conservation of germplasm

Solution:

Ans. (c)

8 Which of the following taxonomic categories contains organisms least similar to one another?

Correct Options:

(C) Class

Solution:

Ans. (c)

9 On germination moss spores produce

Correct Options:

(B) Protonema

Solution:

Ans. (b)

10 The floridean starch is found in

Correct Options:

(A) Rhodophyceae

Solution:

Ans. (a)

11 The green alga rich in proteins used as food supplements even by space travellers is

Correct Options:

(B) *Chlorella*

Solution:

Ans. (b)

12 Mannitol is stored in

Correct Options:

(D) Phaeophyceae.

Solution:

Ans. (d)

13 Heterospory occurs in

Correct Options:

(D) *Selaginella*

Solution:

Ans. (d)

14 What is a common in Funaria, Dryopteris and Ginkgo

Correct Options:

(D) Archegonia

Solution:

Ans. (d)

15 Plant body is thalloid in

Correct Options:

(B) *Marchantia*

Solution:

Ans. (b)

16 Find out the incorrect match

Correct Options:

(B) Anaphase II - Disjunction

Solution:

Ans. (b)

17 In Anaphase, the chromosomes attain different shapes. It is due to the

Correct Options:

(C) Position of centromere

Solution:

Ans. (c)

18 The no. of chromatids present in a chromosome during Anaphase of Mitosis

Correct Options:

(A) 1

Solution:

Ans. (a)

19 In the cell cycle

Correct Options:

(A) Interphase is followed by Division phase

Solution:

Ans. (a)

20 In which one of the following organisms cell division itself is a reproduction

Correct Options:

(C) *E. coli*

Solution:

Ans. (c)

21 In cell cycle new cell organelles are formed in

Correct Options:

(D) Interphase

Solution:

Ans. (d)

22 During Anaphase, movement of daughter chromosomes towards the poles is due to

Correct Options:

(B) Contraction of spindle fibres

Solution:

Ans. (b)

23 In Bivalent

Correct Options:

(B) 2 pairs of non-sister chromatids are present

Solution:

Ans. (b)

24 When Mitosis is compared with Meiosis which one takes more duration

Correct Options:

(B) Meiosis

Solution:

Ans. (b)

25 At chiasma

Correct Options:

(B) Exchange of genetic material occurs

Solution:

Ans. (b)

26 During Meiosis, separation of two genomes of a parent cell occurs in

Correct Options:

(A) Anaphase-I

Solution:

Ans. (a)

27 In a tetraploid cell Meiosis occurs. What is the chromosomal condition of daughter nuclei formed after Meiosis-I ?

Correct Options:

(A) Diploid

Solution:

Ans. (a)

28 The spindle apparatus formed in Metaphase-I and II are arranged

Correct Options:

(B) Right angles with each other

Solution:

Ans. (b)

29 For the formation of 100 seeds, how many pollen grains are required?

Correct Options:

(A) 100

Solution:

Ans. (a)

30 How many mitotic divisions occur in a cell of the root tip to form 128 cells

Correct Options:

(B) 127

Solution:

Ans. (b)

31 Ideal stage for counting chromosomes in Meiosis is

Correct Options:

(A) Metaphase

Solution:

Ans. (a)

32 Crossing over involves

Correct Options:

(C) Exchange of genetic material

Solution:

Ans. (b)

33 Chromosomal fibres extend between

Correct Options:

(A) centromere and pole

Solution:

Ans. (b)

34 Phycocolloid algin occurs in

Correct Options:

(B) Cell wall of brown algae

Solution:

Ans. (b)

35 In brown algae the flagella are

Correct Options:

(D) Heterokont and lateral

Solution:

Ans. (d)

36 In gymnosperms, pollination occurs by

Correct Options:

(C) Wind

Solution:

Ans. (c)

37 Reduction (meiotic) division in pteridophytes occurs

Correct Options:

(C) During spore formation

Solution:

Ans. (c)

38 Which of the following propagates through leaf tip

Correct Options:

(A) Walking fern

Solution:

Ans. (a)

39 Which has vascular tissue, produces spores but no seeds ?

Correct Options:

(B) Pteridophytes

Solution:

Ans. (b)

40 Fucoxanthin is present in

Correct Options:

(B) Brown algae

Solution:

Ans. (b)

41 Male and female gametophytes are independent and free-living in

Correct Options:

(C) *Marchantia*

Solution:

Ans. (c)

42 Which of the following is matched incorrectly?

Correct Options:

(A) Pinus-Coralloid roots

Solution:

Ans. (a)

43 Identify the alga which exhibits diplontic life cycle

Correct Options:

(C) *Fucus*

Solution:

Ans. (c)

44 Archegoniophore is present in

Correct Options:

(C) *Marchantia*

Solution:

Ans. (c)

45 Double fertilization is an event unique to

Correct Options:

(A) Angiosperms

Solution:

Ans. (a)