DU MSc Botany

Topic:- DU_J19_MSC_BOT

1) Which of the following statements on filiform apparatus is <u>not correct</u>?

[Question ID = 2404]

- 1. It determines the polarity of the egg apparatus. [Option ID = 9616]
- 2. It is a highly convoluted extension of the micropylar portion of the synergid wall. [Option ID = 9613]
- 3. It increases the surface area of the plasma membrane of synergids. [Option ID = 9614]
- 4. It controls pollen tube growth. [Option ID = 9615]

Correct Answer :-

• It determines the polarity of the egg apparatus. [Option ID = 9616]

2) Which of the following statements is not correct about aquaporins?

[Question ID = 2413]

- 1. Phosphorylation and calcium concentration regulates aquaporin activity. [Option ID = 9650]
- 2. Aquaporins cannot transport uncharged molecules like NH₃. [Option ID = 9652]
- 3. Aquaporins are found in both plant and animal cell membranes. [Option ID = 9649]
- 4. Activity of aquaporin is regulated by pH and reactive oxygen species. [Option ID = 9651]

Correct Answer :-

- Aquaporins cannot transport uncharged molecules like NH₃. [Option ID = 9652]
- 3) Which of the following statements is NOT correct about *Gnetum*?

[Question ID = 2368]

- 1. Tapetal layer is completely absent in the microsporangium. [Option ID = 9470]
- 2. There are no distinct archegonia, and some free nuclei of the female gametophyte function as eggs. [Option ID = 9472]
- 3. The female gametophyte is formed before fertilization. [Option ID = 9471]
- 4. The secondary wood contains vessels. [Option ID = 9469]

Correct Answer :-

- Tapetal layer is completely absent in the microsporangium. [Option ID = 9470]

4) Which of the following statement is <u>not true</u> about lenticels?

[Question ID = 2371]

- 1. They are formed by the higher activity of phellogen in some limited areas of the periderm [Option ID = 9481]
- 2. They start appearing during the early stages of primary growth [Option ID = 9484]
- 3. They are found in stems as well as roots [Option ID = 9483]
- 4. They permit the entry of air through the peridem [Option ID = 9482] https://pathfinderacademy.in/

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Correct Answer :-	https://pathfinderacademy.in/
They start appearing during the early stages of p	rimary growth [Option 1D = 9484]
5) Which of the following is <u>not true</u> about the of mutations by the 1969 Nobel prize-winning	e classic experiment carried out to study the nature team of Max Luria and Salvador Delbruck?
[Question ID = 2392]	
 Equal number of T1 phage resistant colonies were It demonstrated that genetic mutations arise in the selection. [Option ID = 9566] It is also called as Fluctuation Test [Option ID = 994. They inoculated equal number of <i>E. coli</i> into separt = 9567] 	e absence of selection, and not as a response to
Correct Answer :-	
• Equal number of T1 phage resistant colonies were	e obtained in all the plates. [Option ID = 9568]
6) Which of the following chemical substances with other members of their species?[Question ID = 2401]	s are secreted by some animals for communication
 Terpenoids [Option ID = 9603] Pheromones [Option ID = 9604] Alkaloids [Option ID = 9601] Phenols [Option ID = 9602] 	
Correct Answer :- • Pheromones [Option ID = 9604]	
7) Which of the following is the regulatory boo	dy conferring approval for transgenic plants?
[Question ID = 2431]	
1. NBRI [Option ID = 9724]	
2. GEAC [Option ID = 9723]	
3. NBPGR [Option ID = 9721] 4. NBA [Option ID = 9722]	
Correct Answer :-	
• GEAC [Option ID = 9723]	
8) Which of the following parts <u>is not</u> observed	d in a mature seed-coat?
[Question ID = 2407]	
1. Aril [Option ID = 9628]	
2. Epidermis [Option ID = 9625]	
3. Aerenchyma [Option ID = 9626]	
4 Hypodermis [Ontion ID = 9627]	

4. Hypodermis [Option ID = 9627]

Correct Answer :-

• Aril [Option ID = 9628]

9) Which type of wood is found in <i>Pinus</i> and <i>Cycas</i> ?	https://pathfinderacademy.in/
[Question ID = 2367]	
 Manoxylic in <i>Pinus</i>, and pycnoxylic in <i>Cycas</i> [Option ID = 9466] Manoxylic in both [Option ID = 9468] Pycnoxylic in both [Option ID = 9467] Pycnoxylic in <i>Pinus</i>, and manoxylic in <i>Cycas</i> [Option ID = 9465] 	
 Correct Answer :- Pycnoxylic in <i>Pinus</i>, and manoxylic in <i>Cycas</i> [Option ID = 9465] 	
10) Which one of the following is the most primitive basal and	niosperm?
[Question ID = 2434]	giosperin:
1. <i>Nymphaea</i> [Option ID = 9734]	
2. <i>Hibiscus</i> [Option ID = 9736]	
3. <i>Amborella</i> [Option ID = 9733]	
4. <i>Magnolia</i> [Option ID = 9735]	
Correct Answer :-	
• Amborella [Option ID = 9733]	
11) Which one of the following sets of compounds is used as [[Question ID = 2384]	biopesticides?
1. Pyrethrin, Azadirachtin, Spilanthol [Option ID = 9533]	
2. Pyrethrin, Jatrophine, Curcumin [Option ID = 9535]	
 Capsaicin, Citronella oil, Piperine [Option ID = 9536] Azadirachtin, Taxol, Curcumin [Option ID = 9534] 	
Correct Answer :-	
 Pyrethrin, Azadirachtin, Spilanthol [Option ID = 9533] 	
12) Which one of the following statements about cDNA librar	ios is not corroct?
[Question ID = 2428]	
1. They can be used to study quantitative variations in gene expression	ns levels between different tissues
[Option ID = 9711]	
	between different developmental stages
2. They can be used to analyse variations in gene expression patterns	······································
2. They can be used to analyse variations in gene expression patterns of a plant [Option ID = 9712]	
2. They can be used to analyse variations in gene expression patterns	tion ID = 9710]
 2. They can be used to analyse variations in gene expression patterns of a plant [Option ID = 9712] 3. They can be used to study alternatively spliced forms of a gene [Op 4. They are generally composed of larger fragments as compared to generally compared to gener	tion ID = 9710]

13) Which one of the following statements is not correct?

[Question ID = 2436]

- 1. Keys are based on phylogeny. [Option ID = 9744]
- 2. In a taxonomic key, the two leads together comprise a couplet. [Option ID = 9743]
- 3. All keys comprise sequence of two contrasting statements, each statement is known as a lead. [Option ID = 9742]
- 4. All taxonomic keys are dichotomous. [Option ID = 9741]

Correct Answer :-

14) Which one of the following statements is not true?

[Question ID = 2444]

- 1. Cremocarp is characterstic fruit of Apiaceae [Option ID = 9776]
- 2. Cypsela is characteristic fruit of Poaceae [Option ID = 9775]
- 3. Verticillaster is the characteristic inflorescence of Lamiaceae. [Option ID = 9774]
- 4. The grouping of taxa by overall similarity is called phenetics. [Option ID = 9773]

Correct Answer :-

• Cypsela is characteristic fruit of Poaceae [Option ID = 9775]

15) Which one of the following statements is not true for aposporous embryo sac development?

[Question ID = 2408]

- 1. Three megaspores degenerate while functional haploid megaspore undergoes megagametogenesis. [Option ID = 9630]
- 2. All the four megaspores degenerate while an aposporous initial forms the embryo sac. [Option ID = 9631]
- 3. Tetrad is surrounded by a callose wall. [Option ID = 9632]
- 4. The first and second meiotic divisions result in a tetrad of megaspores. [Option ID = 9629]

Correct Answer :-

• Three megaspores degenerate while functional haploid megaspore undergoes megagametogenesis. [Option ID = 9630]

16) Which one of the following statements <u>is false</u> for a population that is under natural selection?

[Question ID = 2388]

- 1. At a given point of time, the sum total of all genotypic frequencies is equal to 1. [Option ID = 9552]
- 2. At a given point of time for any given bi-allelic gene, the sum of the allele frequencies would be equal to one. [Option ID = 9551]
- 3. The genotypic frequencies can be estimated if the allele frequencies are known. [Option ID = 9550]
- 4. The population will not exhibit Hardy-Weinberg equilibrium. [Option ID = 9549]

Correct Answer :-

• The genotypic frequencies can be estimated if the allele frequencies are known. [Option ID = 9550]

17) Which one of the following statements is not correct?

[Question ID = 2363]

1. In bryophytes, meiosis occurs in the gametangia to produce sperms and egos to have been specific to the product of the prod

 Amphigastria are found in <i>Porella</i> [Option ID = 9451] In <i>Anthoceros,</i> each cell contains single large chloroplast with a p In <i>Funaria,</i> the dominant stage of life cycle is gametophytic [Option 	yrenoid [Option/10 9450] on ID = 9452]
Correct Answer :-	
In bryophytes, meiosis occurs in the gametangia to produce spe	erms and eggs [Option ID = 9449]
18) Which one of the following <u>is not</u> a constituent of an ay	urvedic herbal formulation, 'Trifala'?
[Question ID = 2381]	
1. <i>Emblica officinalis</i> [Option ID = 9524]	
2. <i>Terminalia bellerica</i> [Option ID = 9521]	
3. <i>Terminalia arjuna</i> [Option ID = 9522]	
4. <i>Terminalia officinalis</i> [Option ID = 9523]	
Correct Answer :-	
• <i>Terminalia arjuna</i> [Option ID = 9522]	
19) Which one of the following <u>is not</u> a member of Poaceae	?
[Question ID = 2440]	
1. <i>Hordeum vulgare</i> [Option ID = 9757]	
2. <i>Triticum aestivum</i> [Option ID = 9758]	
3. Secale cereale [Option ID = 9760]	
4. <i>Cynodon dactylon</i> [Option ID = 9759]	
Correct Answer :-	
20) Which one of the following <u>is not</u> found in <i>Marchantia</i> ?	
[Question ID = 2365]	
1. Barrel shaped epidermal pores in the thallus [Option ID = 9458]	
2. Smooth walled as well as tuberculated rhizoids [Option ID = 9457	7]
3. Filamentous protonema [Option ID = 9460]	
4. Elaters [Option ID = 9459]	
Correct Answer :-	
Filamentous protonema [Option ID = 9460]	
21) Which one of the following contributes to the formation	n of peatlands?
[Question ID = 2362]	
1. <i>Sphagnum</i> [Option ID = 9448]	
2. <i>Riccia</i> [Option ID = 9445]	
3. Porella [Option ID = 9446] 4. Conference [Option ID = 0447]	
4. <i>Cooksonia</i> [Option ID = 9447]	
Correct Answer :-	
• <i>Sphagnum</i> [Option ID = 9448]	
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22) Which one of the following crops was the first to have its nuclear genome sequenced? https://pathfinderacademy.in/

[Question ID = 2429]

- 1. Maize [Option ID = 9713]
- 2. Barley [Option ID = 9716]
- 3. Rice [Option ID = 9715]
- 4. Wheat [Option ID = 9714]

Correct Answer :-

• Rice [Option ID = 9715]

23) Which one of the following is considered to be a signal metabolite that regulates the partitioning between sucrose and starch synthesis?

[Question ID = 2423]

- 1. Fructose 6-phosphate [Option ID = 9691]
- 2. Fructose 2-phosphate [Option ID = 9692]
- 3. Fructose-2, 6-bisphosphate [Option ID = 9689]
- 4. Fructose-1, 6-bisphosphate [Option ID = 9690]

Correct Answer :-

• Fructose-2, 6-bisphosphate [Option ID = 9689]

24) Which one of the following is an *incorrect* combination?

[Question ID = 2383]

- 1. Diospyros melanoxylon Indian beedi [Option ID = 9530]
- 2. Cichorium intybus khus-khus [Option ID = 9532]
- 3. *Pongamia pinnata* biodiesel [Option ID = 9531]
- 4. Betula bhojpatra bhojpatra [Option ID = 9529]

Correct Answer :-

• *Cichorium intybus* – khus-khus [Option ID = 9532]

25) Which one of the following genes does not confer resistance to a herbicide?

[Question ID = 2427]

- 1. *ALS* [Option ID = 9707]
- 2. *nptII* [Option ID = 9708]
- 3. *EPSPS* [Option ID = 9705]
- 4. *pat* [Option ID = 9706]

Correct Answer :-

• *nptII* [Option ID = 9708]

26) Which series <u>is not</u> included in the Gamopetalae in Bentham and Hooker's system of classification?

[Question ID = 2442]

2. Heteromerae	[Option ID	= 9766]
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- 3. Bicarpoellatae [Option ID = 9767]
- 4. Thalamiflorae [Option ID = 9768]

Correct Answer :-

Thalamiflorae [Option ID = 9768]

27) Algae that grow at the interface of water and atmosphere are called as [Question ID = 2349]

- 1. epipelic [Option ID = 9393]
- 2. benthic [Option ID = 9396]
- 3. planktonic [Option ID = 9395]
- 4. neustonic [Option ID = 9394]

Correct Answer :-

• neustonic [Option ID = 9394]

28) In non-graminaceous plant roots, iron is transported across the plasma membrane as

[Question ID = 2417]

- 1. Both ferrous and ferric ions [Option ID = 9665]
- 2. Ferrous ions [Option ID = 9667]
- 3. Ferric ions [Option ID = 9668]
- 4. Fe-Chelate [Option ID = 9666]

Correct Answer :-

• Ferrous ions [Option ID = 9667]

29) In root nodules of legumes, leg-haemoglobin is important because it

[Question ID = 2415]

- 1. transports oxygen to the root nodule. [Option ID = 9657]
- 2. acts as a catalyst in transamination. [Option ID = 9660]
- 3. acts as an oxygen scavenger. [Option ID = 9658]
- 4. provides energy to the nitrogen fixing bacterium. [Option ID = 9659]

Correct Answer :-

acts as an oxygen scavenger. [Option ID = 9658]

30) Hygroscopic fibers located in the reaction wood are termed as [Question ID = 2376]

- 1. fiber-tracheids [Option ID = 9504]
- 2. libriform fibers [Option ID = 9502]
- 3. gelatinous fibers [Option ID = 9503]
- 4. substitute fibers [Option ID = 9501]

Correct Answer :-

• gelatinous fibers [Option ID = 9503]

31) Three-dimensional structures of a cell can be studied by using which of the following microscopes? [Question ID = 2348]

1. Fluorescent [Option ID = 9391] https://pathfinderacademy.in/ 2. Phase contrast [Option ID = 9390] 3. Differential interference contrast [Option ID = 9392] 4. Bright field [Option ID = 9389] **Correct Answer :-** Differential interference contrast [Option ID = 9392] 32) Buzz pollination is associated with flowers, wherein the anthers exhibit [Question ID = 2411] 1. poricidal dehiscence. [Option ID = 9643] 2. explosive dehiscence. [Option ID = 9644] 3. longitudinal dehiscence. [Option ID = 9641] 4. valvular dehiscence. [Option ID = 9642] **Correct Answer :-** poricidal dehiscence. [Option ID = 9643] 33) A distribution in which individuals within a population have an equal chance of living anywhere within an area is called as [Question ID = 2400] 1. Random. [Option ID = 9597] 2. Contiguous. [Option ID = 9600] 3. Regular. [Option ID = 9598] 4. Clumped. [Option ID = 9599] **Correct Answer :-**• Random. [Option ID = 9597] 34) The term 'Glabrous' refers to [Question ID = 2373] 1. sparsely hairy. [Option ID = 9491] 2. lack of trichomes. [Option ID = 9489] 3. presence of glandular trichomes. [Option ID = 9492] 4. presence of bristly hair. [Option ID = 9490] **Correct Answer :-** lack of trichomes. [Option ID = 9489] 35) Identify the <u>incorrect</u> combination from the following: [Question ID = 2432] 1. Somaclonal variation – F.C. Steward [Option ID = 9727] 2. GUS reporter system – R.A. Jefferson [Option ID = 9728] 3. Protoplast – E.C. Cocking [Option ID = 9725] 4. Edible vaccine – C.J. Arntzen [Option ID = 9726] **Correct Answer :-** Somaclonal variation – F.C. Steward [Option ID = 9727] https://pathfinderacademy.in/ 36) Two different DNA molecules were isolated from a bacterial sample? Further experiments/ demonstrated that one of these (X) was composed of 40%A, 40%G, 10%T and 10%C but could not be cut by an exonuclease. The second DNA sample (Y) could be cut by the exonuclease and was found to be composed of 30%A, 30%T, 20%G and 20%C. Which one of the following statements can be correctly deduced from the above?

[Question ID = 2424]

1. DNA Y has a double-stranded and circular structure [Option ID = 9694]

- 2. DNA X has a single-stranded and linear structure [Option ID = 9695]
- 3. DNA X has a single-stranded and circular structure [Option ID = 9696]
- 4. DNA X has a double-stranded and linear structure [Option ID = 9693]

Correct Answer :-

• DNA X has a single-stranded and circular structure [Option ID = 9696]

37) A binomial in which the genus name and specific epithet are identical in spelling is called

[Question ID = 2439]

- 1. Autonym [Option ID = 9753]
- 2. Basionym [Option ID = 9756]
- 3. Tautonym [Option ID = 9754]
- 4. Synonym [Option ID = 9755]

Correct Answer :-

• Tautonym [Option ID = 9754]

38) A plant heterozygous for two tightly linked genes A and B, has the genotype AB/ab. Which of the following statements is <u>true</u> when the plant is self-pollinated?

[Question ID = 2393]

- 1. Both loci will segregate in a 3:1 ratio. [Option ID = 9571]
- 2. Gametes with genotype AB and ab will be less than those with aB and Ab. [Option ID = 9570]
- 3. The percentage of all the four types of gametes (AB, ab, Ab, aB) would be equal. [Option ID = 9569]
- 4. The segregation ratio of the two genes will depend upon the distance between them. [Option ID = 9572]

Correct Answer :-

• Both loci will segregate in a 3:1 ratio. [Option ID = 9571]

39) The study of man-made areas with complex, dynamic ecological systems, influenced by interconnected biological, physical and social components is called as [Question ID = 2397]

- 1. Social Ecology. [Option ID = 9588]
- 2. Ecosystem Ecology. [Option ID = 9586]
- 3. Urban Ecology. [Option ID = 9587]
- 4. System Ecology. [Option ID = 9585]

Correct Answer :-

• Urban Ecology. [Option ID = 9587]

40) In a pollen wall, the following enzymes serve as markers for intine and exine, respectively. https://pathfinderacademy.in/

[Question ID = 2410]

- 1. Acid phosphatases and esterases [Option ID = 9637]
- 2. Pectinases and catalases [Option ID = 9638]
- 3. Kinases and β -1,3 glucanase [Option ID = 9640]
- 4. Lipases and cutinases [Option ID = 9639]

Correct Answer :-

Acid phosphatases and esterases [Option ID = 9637]

41) In a population of diploid individuals, six alleles exist for a particular gene. What is the expected number of alleles present in a chromosome; and types of alleles in a heterozygous individual and in a homozygous individual respectively?

[Question ID = 2387]

1. 2; 2, 1 [Option ID = 9546] 2. 2; 2, 1 [Option ID = 9548] 3. 1; 2, 1 [Option ID = 9547] 4. 1; 2, 2 [Option ID = 9545]

Correct Answer :-

• 1; 2, 1 [Option ID = 9547]

42) Polysporangiate anthers are seen in the family

[Question ID = 2409]

- 1. Agavaceae. [Option ID = 9636]
- 2. Annonaceae. [Option ID = 9635]
- 3. Anacardiaceae. [Option ID = 9634]
- 4. Amborellaceae. [Option ID = 9633]

Correct Answer :-

• Annonaceae. [Option ID = 9635]

43) Pfr shows maximum absorption at

[Question ID = 2416]

1. 650 nm. [Option ID = 9664] 2. 660 nm. [Option ID = 9662] 3. 466 nm. [Option ID = 9663] 4. 730 nm. [Option ID = 9661]

Correct Answer :-

• 730 nm. [Option ID = 9661]

44) Hyperthermophiles are heat loving microbes that can live in temperature optima above

[Question ID = 2399]

1. 50 °C [Option ID = 9594] 2. 60 °C [Option ID = 9595] 3. 80 °C [Option ID = 9593]

Correct Answer :-

• 80 °C [Option ID = 9593]

45) Dolipore septum is a characteristic of [Question ID = 2356]

- 1. Zygomycetes. [Option ID = 9423]
- 2. Chytridiomycetes. [Option ID = 9424]
- 3. Basidiomycetes. [Option ID = 9421]
- 4. Ascomycetes. [Option ID = 9422]

Correct Answer :-

- Basidiomycetes. [Option ID = 9421]
- 46) PEP carboxylase activity in C₄ and CAM plants is regulated by

[Question ID = 2419]

- 1. isomerization [Option ID = 9676]
- 2. carboxylation-decarboxylation [Option ID = 9675]
- 3. phosphorylation-dephosphorylation [Option ID = 9673]
- 4. oxidation-reduction [Option ID = 9674]

Correct Answer :-

phosphorylation-dephosphorylation [Option ID = 9673]

47) A globular or hook-like intracellular structure formed by a biotrophic fungus/oomycete for

absorption of nutrients from the host is known as [Question ID = 2359]

- 1. sclerotium. [Option ID = 9433]
- 2. vesicle. [Option ID = 9434]
- 3. sporophore. [Option ID = 9436]
- 4. haustorium. [Option ID = 9435]

Correct Answer :-

• haustorium. [Option ID = 9435]

48) Glucosinolates do not occur in

[Question ID = 2437]

- 1. Papaveraceae [Option ID = 9746]
- 2. Capparaceae [Option ID = 9747]
- 3. Brassicaceae [Option ID = 9745]
- 4. Fabaceae [Option ID = 9748]

Correct Answer :-

49) Fruits of which of the following pair of plants possess aril?

[Question ID = 2382]

1. *Litchi chinensis* and *Aegle marmelos* [Option ID = 9525]

2. Litchi chinensis and Ananas cosmosus [Option ID = 9528]

4. <i>Myristica fragrans</i> and <i>Litchi chinensis</i> [Option ID = 9526]	https://pathfinderacademy.in/
Correct Answer :-	
<i>Myristica fragrans</i> and <i>Litchi chinensis</i> [Option ID = 9526]	
50) Channel proteins that are located in the outer membra known as [Question ID = 2345]	ne of Gram-negative bacteria are
1. barrels [Option ID = 9377]	
2. murins [Option ID = 9378]	
3. granules [Option ID = 9380]	
4. porins [Option ID = 9379]	
Correct Answer :-	
• porins [Option ID = 9379]	
51) Orthorhombic crystals of calcium carbonate are knowr	as [Question ID = 2350]
1. aragonite. [Option ID = 9397]	
2. detritus. [Option ID = 9399]	
3. calcite. [Option ID = 9398]	
4. stromatolites. [Option ID = 9400]	
Correct Answer :-	
 aragonite. [Option ID = 9397] 52) Anabolic component of the carbohydrate metabolism i 	ncludes which one of the following
 aragonite. [Option ID = 9397] 52) Anabolic component of the carbohydrate metabolism i processes? [Question ID = 2421] 1. Glycogenolysis [Option ID = 9681] 2. Glyconeogenesis [Option ID = 9683] 	ncludes which one of the following
 aragonite. [Option ID = 9397] 52) Anabolic component of the carbohydrate metabolism is processes? [Question ID = 2421] 1. Glycogenolysis [Option ID = 9681] 	ncludes which one of the following
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 aragonite. [Option ID = 9397] 52) Anabolic component of the carbohydrate metabolism in processes? [Question ID = 2421] 1. Glycogenolysis [Option ID = 9681] 2. Glyconeogenesis [Option ID = 9683] 3. Citric Acid Cycle [Option ID = 9682] 4. Uronic Acid Pathways [Option ID = 9684] 	ncludes which one of the following
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 aragonite. [Option ID = 9397] 52) Anabolic component of the carbohydrate metabolism is processes? [Question ID = 2421] 1. Glycogenolysis [Option ID = 9681] 2. Glyconeogenesis [Option ID = 9683] 3. Citric Acid Cycle [Option ID = 9682] 4. Uronic Acid Pathways [Option ID = 9684] Correct Answer :- Glyconeogenesis [Option ID = 9683] 53) Aleurone layer is rich in 	ncludes which one of the following
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54) Mesogenous stomata refers to stomata

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[Question ID = 2372]

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- 1. in which all the subsidiary cells have a common origin with guard cells. [Option ID = 9486]
- 2. having subsidiary cells that are indistinguishable from other epidermal cells. [Option ID = 9487]
- 3. having subsidiary cells that are aligned parallel to the long axis of the guard cells. [Option ID = 9488]
- 4. occurring in mesophytic plants. [Option ID = 9485]

Correct Answer :-

• in which all the subsidiary cells have a common origin with guard cells. [Option ID = 9486]

55) Vestures refer to [Question ID = 2377]

- 1. Plasmodesmatal connections between any wood elements [Option ID = 9507]
- 2. clogged hydathodes [Option ID = 9508]
- 3. resin droplets accumulated in the non-conducting vessel elements [Option ID = 9505]
- 4. wall ingrowths that impart sieve-like appearance to pits of the vessels [Option ID = 9506]

Correct Answer :-

• wall ingrowths that impart sieve-like appearance to pits of the vessels [Option ID = 9506]

56) Dormant, tough, non-reproductive structure, produced by bacteria to tide over unfavourable conditions is known as: [Question ID = 2347]

- 1. heterocyst [Option ID = 9388]
- 2. sclerotium [Option ID = 9386]
- 3. endospore [Option ID = 9385]
- 4. sporocarp [Option ID = 9387]

Correct Answer :-

• endospore [Option ID = 9385]

57) Gram-negative bacteria are more resistant to antibiotics than Gram-positive bacteria due to the presence of [Question ID = 2346]

- 1. outer lipopolysaccharide layer. [Option ID = 9382]
- 2. peptidoglycan wall. [Option ID = 9381]
- 3. porin protein. [Option ID = 9383]
- 4. teichoic acid. [Option ID = 9384]

Correct Answer :-

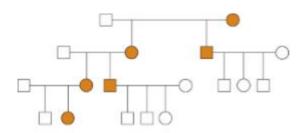
• outer lipopolysaccharide layer. [Option ID = 9382]

58) In *Lymnaea peregra*, coiling behaviour is controlled by a single gene. Dextral coiling behaviour is governed by dominant allele 'D' and sinistral coiling by recessive allele 'd'. When a cross is made using sinistral as female and dextral as male, all the snails are sinistral in F_1 and dextral in F_2 . Again in F_3 a ratio of 3 dextral and 1 sinistral is observed. This kind of pattern is an example of

[Question ID = 2390]

- 1. Epistasis [Option ID = 9560]
- 2. Cytoplasmic maternal inheritance [Option ID = 9558]
- 3. Cytoplasmic maternal effect [Option ID = 9559]
- 4. Mendelian inheritance [Option ID = 9557]

59) Study the following pedigree. What can be the possible inheritance pattern?



[Question ID = 2391]

- 1. Autosomal inheritance [Option ID = 9564]
- 2. X-linked inheritance [Option ID = 9561]
- 3. Y-linked inheritance [Option ID = 9562]
- 4. Mitochondrial inheritance [Option ID = 9563]

Correct Answer :-

• Mitochondrial inheritance [Option ID = 9563]

60) Accessory cambia, the activity of which leads to formation of a series of cylinders of secondary vascular tissues are found in [Question ID = 2378]

- 1. Asclepiadaceae [Option ID = 9512]
- 2. Chenopodiaceae [Option ID = 9509]
- 3. Apocynaceae [Option ID = 9511]
- 4. Bignoniaceae [Option ID = 9510]

Correct Answer :-

• Chenopodiaceae [Option ID = 9509]

61) In species where pollen matures and is released prior to the maturation and receptivity of the gynoecium, the condition is called

[Question ID = 2435]

- 1. dichogamy [Option ID = 9739]
- 2. protoandry [Option ID = 9738]
- 3. protogyny [Option ID = 9737]
- 4. androdioecy [Option ID = 9740]

Correct Answer :-

• protoandry [Option ID = 9738]

62) The sexual fruiting body in *Neurospora* is called as [Question ID = 2358]

1. cleistothecium. [Option ID = 9429]

- 2. perithecium. [Option ID = 9431]
- 3. apothecium. [Option ID = 9432]
- 4. pseudothecium. [Option ID = 9430]

63) In the fine mapping of *rII* locus, Benzer was able to demonstrate intragenic recombination in phages mainly because

[Question ID = 2389]

- 1. of the large number of phage progeny that could be screened. [Option ID = 9554]
- 2. phages have haploid genomes. [Option ID = 9556]
- 3. intragenic recombination occurs only in phages. [Option ID = 9553]
- 4. making crosses in phages is easier. [Option ID = 9555]

Correct Answer :-

• of the large number of phage progeny that could be screened. [Option ID = 9554]

64) Blastozone refers to the [Question ID = 2375]

- 1. quiescent centre of Root Apical Meristem (RAM) [Option ID = 9500]
- 2. marginal meristem of growing leaves [Option ID = 9499]
- 3. meristematic region located in the rib zone of Shoot Apical Meristem (SAM) [Option ID = 9497]
- 4. intercalary meristem [Option ID = 9498]

Correct Answer :-

• marginal meristem of growing leaves [Option ID = 9499]

65) The number of nucleosomes associated with one turn of solenoid configuration of chromatin is [Question ID = 2355]

1. 6 [Option ID = 9419] 2. 2 [Option ID = 9417] 3. 8 [Option ID = 9420] 4. 4 [Option ID = 9418]

Correct Answer :-

• 6 [Option ID = 9419]

66) Lloyd Botanical Garden is located at

[Question ID = 2441]

- 1. Ootacamund [Option ID = 9762]
- 2. Srinagar (Kashmir) [Option ID = 9763]
- 3. Dehra Dun [Option ID = 9764]
- 4. Darjeeling [Option ID = 9761]

Correct Answer :-

• Darjeeling [Option ID = 9761]

67) Similarity resulting from common ancestry is called

[Question ID = 2433]

- 1. convergence [Option ID = 9732] 2. homology [Option ID = 9730]
- 3. homoplasy [Option ID = 9729]

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Correct Answer :-	
 homology [Option ID = 9730] 	
58) Fluorochromatic reaction test to ascertain polle	n viability was developed by
Question ID = 2412]	
1. J. Heslop-Harrison. [Option ID = 9647]	
2. E. Strasburger. [Option ID = 9646]	
3. S.G. Nawaschin. [Option ID = 9648]	
4. P. Maheshwari. [Option ID = 9645]	
Correct Answer :-	
• J. Heslop-Harrison. [Option ID = 9647]	
69) In <i>Pellia,</i> the sporogenous tissue develops from	the [Question ID = 2364]
1. amphithecium. [Option ID = 9454]	
2. endothecium. [Option ID = 9455]	
3. epidermis. [Option ID = 9453]	
4. columella. [Option ID = 9456]	
-	
• endothecium. [Option ID = 9455]	
Correct Answer :-	orial region is called
Correct Answer :- • endothecium. [Option ID = 9455] 70) A pollen grain with colpi occurring in the equato [Question ID = 2438]	orial region is called
Correct Answer :- • endothecium. [Option ID = 9455] 70) A pollen grain with colpi occurring in the equato	orial region is called
 Correct Answer :- endothecium. [Option ID = 9455] 70) A pollen grain with colpi occurring in the equato [Question ID = 2438] 1. colporate [Option ID = 9752] 2. zonoporate [Option ID = 9750] 3. zonoaperturate [Option ID = 9751] 	orial region is called
 Correct Answer :- endothecium. [Option ID = 9455] 70) A pollen grain with colpi occurring in the equato [Question ID = 2438] 1. colporate [Option ID = 9752] 2. zonoporate [Option ID = 9750] 3. zonoaperturate [Option ID = 9751] 	orial region is called
Correct Answer :- endothecium. [Option ID = 9455] 70) A pollen grain with colpi occurring in the equator [Question ID = 2438] colporate [Option ID = 9752] zonoporate [Option ID = 9750] zonoaperturate [Option ID = 9751] zonocolpate [Option ID = 9749] Correct Answer :-	orial region is called
Correct Answer :- • endothecium. [Option ID = 9455] 70) A pollen grain with colpi occurring in the equator [Question ID = 2438] 1. colporate [Option ID = 9752] 2. zonoporate [Option ID = 9750] 3. zonoaperturate [Option ID = 9751] 4. zonocolpate [Option ID = 9749] Correct Answer :-	orial region is called
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Correct Answer :- endothecium. [Option ID = 9455] 70) A pollen grain with colpi occurring in the equator [Question ID = 2438] 1. colporate [Option ID = 9752] 2. zonoporate [Option ID = 9750] 3. zonoaperturate [Option ID = 9751] 4. zonocolpate [Option ID = 9749] Correct Answer :- • zonocolpate [Option ID = 9749] 71) In plant tissue culture, a high cytokinin : auxin r [Question ID = 2426]	
Correct Answer :- endothecium. [Option ID = 9455] 70) A pollen grain with colpi occurring in the equator [Question ID = 2438] 1. colporate [Option ID = 9752] 2. zonoporate [Option ID = 9750] 3. zonoaperturate [Option ID = 9751] 4. zonocolpate [Option ID = 9749] Correct Answer :- zonocolpate [Option ID = 9749] 71) In plant tissue culture, a high cytokinin : auxin in [Question ID = 2426] 1. callus. [Option ID = 9702] 2. embryos. [Option ID = 9703] 	
Correct Answer :- endothecium. [Option ID = 9455] 70) A pollen grain with colpi occurring in the equator [Question ID = 2438] 1. colporate [Option ID = 9752] 2. zonoporate [Option ID = 9750] 3. zonoaperturate [Option ID = 9751] 4. zonocolpate [Option ID = 9749] Correct Answer :- zonocolpate [Option ID = 9749] 71) In plant tissue culture, a high cytokinin : auxin in [Question ID = 2426] 1. callus. [Option ID = 9702] 2. embryos. [Option ID = 9701] 	

Tamarindus indica [Option ID = 9515]
 Punica granatum [Option ID = 9514]

3. <i>Mangifera indica</i> [Option ID = 9516] 4. <i>Carica papaya</i> [Option ID = 9513]	https://pathfinderacademy.in/
Correct Answer :-	
• <i>Punica granatum</i> [Option ID = 9514]	
73) Which of the following horizons in the soil profi [Question ID = 2398]	le has high amount of organic matter?
1. C [Option ID = 9592]	
2. A [Option ID = 9590]	
3. B [Option ID = 9591]	
4. O [Option ID = 9589]	
Correct Answer :-	
• O [Option ID = 9589]	
74) Which one of the following is used as a sweeter	ner? [Question ID = 2380]
1. <i>Syzygium cumini</i> [Option ID = 9519]	
2. <i>Carica papaya</i> [Option ID = 9520]	
 Stevia rebaudiana [Option ID = 9518] Gymnema sylvestre [Option ID = 9517] 	
Correct Answer :-	
 Stevia rebaudiana [Option ID = 9518] 	
75) Which phylum contains organisms that most clo and animals? [Question ID = 2360]	osely resemble the common ancestor of fungi
1. Zygomycota [Option ID = 9437]	
2. Chytridiomycota [Option ID = 9439]	
3. Basidiomycota [Option ID = 9440]	
4. Ascomycota [Option ID = 9438]	
Correct Answer :-	
Chytridiomycota [Option ID = 9439]	
76) Majority of the enzymes are inactive [Question	ID = 2353]
1. above 75°C [Option ID = 9412]	
2. between 25-30°C [Option ID = 9410]	
3. at 25°C [Option ID = 9409]	
4. at 15°C [Option ID = 9411]	
Correct Answer :-	
 above 75°C [Option ID = 9412] 	
77) Syngenesious stamens are characteristic of the	family
[Question ID = 2443]	,
1. Ranunculaceae [Option ID = 9769]	
2. Brassicaceae [Option ID = 9772]	
3. Malvaceae [Option ID = 9770]	https://pathfinderacademy.in/
4 Asteraceae [Ontion ID = 9771]	

4. Asteraceae [Option ID = 9771]

Correct Answer :-Asteraceae [Option ID = 9771]	https://pathfinderacademy.in/
78) High activity of sucrose synthase is present in	
[Question ID = 2422]	
 tissues that utilize sucrose [Option ID = 9686] tissues that synthesize sucrose [Option ID = 9685] sucrose exporting tissue [Option ID = 9688] photosynthetic leaves [Option ID = 9687] 	
Correct Answer :-	
 tissues that utilize sucrose [Option ID = 9686] 	
79) Methionine is the precursor of which of the follo	owing plant growth regulators?
[Question ID = 2418]	
1. Indole acetic acid [Option ID = 9670]	
2. Cytokinins [Option ID = 9671]	
 3. Ethylene [Option ID = 9672] 4. Abscisic acid [Option ID = 9669] 	
Correct Answer :-	
• Ethylene [Option ID = 9672]	
80) Trichoblasts are [Question ID = 2370]	
1. excessively multiplying cells in the root epidermis [Optio	n ID = 9480]
2. cells that markedly differ from other cells in the same tis	
 cells in the root epidermis that gives rise to root hair [O] epidermal outgrowths that may or may not be glandular 	-
Correct Answer :-	
• cells in the root epidermis that gives rise to root hair [0	Option ID = 9477]
81) Which of the following enzyme is involved in tR	NA synthesis? [Question ID = 2396]
1. RNA polymerase II [Option ID = 9582]	
2. RNA polymerase IV [Option ID = 9584]	
 RNA Polymerase I [Option ID = 9581] RNA Polymerase III [Option ID = 9583] 	
Correct Answer :-	
• RNA Polymerase III [Option ID = 9583]	
82) Which one of the following is a phospholipid? [
1. Proline [Option ID = 9407]	
2. Methionine [Option ID = 9405] 3. Lecithin [Option ID = 9408]	
3. Lecithin [Option ID = 9408]	

Correct Answer :-

4. Valine [Option ID = 9406]

• Lecithin [Option ID = 9408]	https://pathfinderacademy.in/
83) Which one of the following amino acids has a nonpola 2351]	r, aliphatic R group? [Question ID =
1. Lysine [Option ID = 9401]	
2. Arginine [Option ID = 9403]	
3. Glycine [Option ID = 9404]4. Histidine [Option ID = 9402]	
Correct Answer :-	
 Glycine [Option ID = 9404] 	
84) Gynobasic style is a characteristic feature of the famil	у
[Question ID = 2386]	
1. Lamiaceae [Option ID = 9543]	
2. Papilionaceae [Option ID = 9541]	
3. Apiaceae [Option ID = 9544]4. Asteraceae [Option ID = 9542]	
Correct Answer :-	
Lamiaceae [Option ID = 9543]	
85) Amphigynous antheridium is found in the genus [Que	stion ID = 2357]
1. <i>Phytophthora.</i> [Option ID = 9425]	
2. <i>Alternaria.</i> [Option ID = 9426]	
 <i>Botrytis.</i> [Option ID = 9428] <i>Fusarium.</i> [Option ID = 9427] 	
-	
<i>Phytophthora.</i> [Option ID = 9425]	
86) Transfusion tissue in Cycas functions as [Question ID	= 2366]
1. micropyle closing tissue after pollination. [Option ID = 9463]	0.001
 lateral conducting channel for water in the leaves. [Option ID = mucilage secreting tissue in the ducts. [Option ID = 9462] 	9461]
4. nutritive tissue for embryo. [Option ID = 9464]	
Correct Answer :-	
lateral conducting channel for water in the leaves. [Option ID	= 9461]
87) The Shannon-Weiner index measures: [Question ID =	
1. General diversity [Option ID = 9610]	
2. Evenness [Option ID = 9611]	
3. Similarity-dissimilarity [Option ID = 9612]	
4. Dominance [Option ID = 9609]	

4. Dominance [Option ID = 9609]

Correct Answer :-

• General diversity [Option ID = 9610]

88) Hypostase refers to

[Question ID = 2405]

- 1. a group of cells below the embryo sac and above the funiculus. [Option ID = 9618]
- 2. nucellar cells above the embryo sac. [Option ID = 9619]
- 3. parietal cells. [Option ID = 9620]
- 4. a cap-like structure of cutinized cells above the embryo sac. [Option ID = 9617]

Correct Answer :-

• a group of cells below the embryo sac and above the funiculus. [Option ID = 9618]

89) Volatile substances that attract pollinators are emitted by [Question ID = 2374]

- 1. nectaries [Option ID = 9495]
- 2. osmophores [Option ID = 9493]
- 3. hydathodes [Option ID = 9494]
- 4. myrosine cells [Option ID = 9496]

Correct Answer :-

• osmophores [Option ID = 9493]

90) The factor responsible for mediating binding of core RNA polymerase to promoter is

[Question ID = 2395]

1. δ-70 [Option ID = 9580] 2. α-70 [Option ID = 9577] 3. Γ-55 [Option ID = 9579] 4. σ-70 [Option ID = 9578]

Correct Answer :-

- σ-70 [Option ID = 9578]
- -----

91) The members of which of the following angiosperm families do not form endosperm?

[Question ID = 2406]

- 1. Poaceae [Option ID = 9621]
- 2. Papilionaceae [Option ID = 9624]
- 3. Brassicaceae [Option ID = 9623]
- 4. Podostemaceae [Option ID = 9622]

Correct Answer :-

• Podostemaceae [Option ID = 9622]

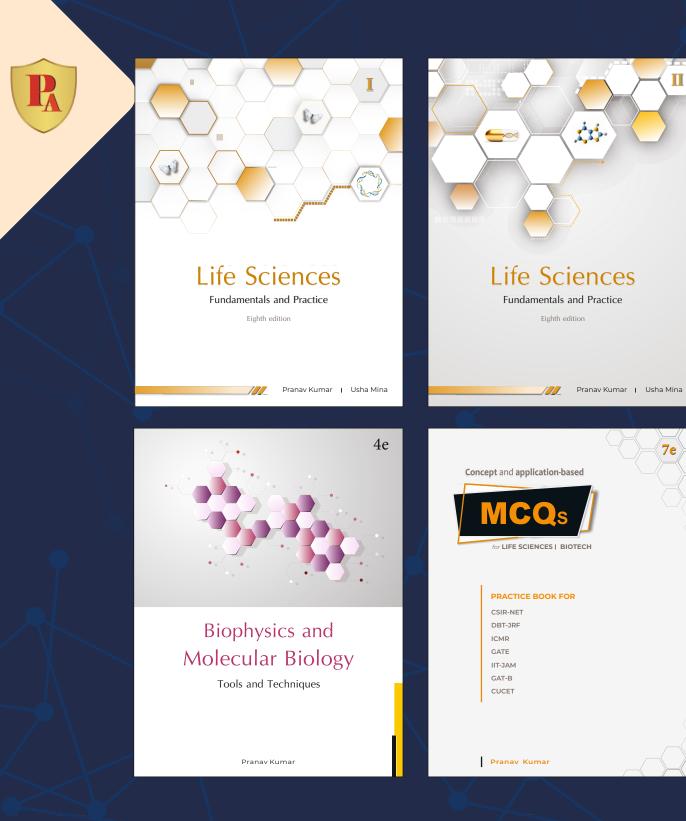
92) The probability of death of organisms with different ages in the current year is shown in

[Question ID = 2402]

- 1. Survivorship curve [Option ID = 9605]
- 2. Static life table [Option ID = 9606]
- 3. Natality [Option ID = 9608]
- 4. Cohort life table [Option ID = 9607]

Correct Answer :-Static life table [Option ID = 9606]	https://pathfinderacademy.in/
93) The smallest known virus is	
[Question ID = 2361]	
1. <i>Escherichia coli</i> [Option ID = 9441]	
2. Tobacco necrosis satellite virus [Option ID = 9444]	
3. Tobacco mosaic virus [Option ID = 9443]	
4. Vaccinia virus [Option ID = 9442]	
Correct Answer :-	
• Tobacco necrosis satellite virus [Option ID = 9444]	
94) The water potential of pure water at atmospheric	pressure is
[Question ID = 2414]	
12.3 bar. [Option ID = 9653]	
2. 1 bar. [Option ID = 9656]	
3. 0 bar. [Option ID = 9655]	
4. +2.3 bar. [Option ID = 9654]	
Correct Answer :-	
• 0 bar. [Option ID = 9655]	
[Question ID = 2369] 1. adaxial surface of the sporophylls [Option ID = 9475] 2. adaxial surface and abaxial surface of the sporophylls, response 3. abaxial surface and adaxial surface of the sporophylls, response 4. abaxial surface of the sporophylls [Option ID = 9476] Correct Answer :-	
 abaxial surface and adaxial surface of the sporophylls, res 	pectively [Option ID = 9474]
96) The term "Bio-pharming" refers to	
[Question ID = 2430]	
	ID = 9718]
1. synthesis of drugs from transgenic plants/animals. [Option]	ID = 9718]
[Question ID = 2430] 1. synthesis of drugs from transgenic plants/animals. [Option 2 2. large scale farming of medicinal plants. [Option ID = 9720] 3. genetically modified foods from plants. [Option ID = 9717]	ID = 9718]
 synthesis of drugs from transgenic plants/animals. [Option 2. large scale farming of medicinal plants. [Option ID = 9720] genetically modified foods from plants. [Option ID = 9717] 	ID = 9718]
 synthesis of drugs from transgenic plants/animals. [Option 2. large scale farming of medicinal plants. [Option ID = 9720] 	ID = 9718]

5' – ATGACGATGGACACATGACATAGACGATAATGCCGTGAC – 3' In the absence of T _m effects, which one of the following sets of primers could, theoretically, be used to amplify the target sequence by PCR? [Question ID = 2425]
 5' - ATGACGA - 3' and 5' - CCGTGAC - 3' [Option ID = 9700] 5' - ATGACGA - 3' and 5' - GTCACGG - 3' [Option ID = 9697] 5' - TACTGCT - 3' and 5' - GGCACTG- 3' [Option ID = 9698] 5' - TCGTCAT - 3' and 5' - CCGTGAC - 3' [Option ID = 9699]
Correct Answer :- • 5' – ATGACGA – 3' and 5' – GTCACGG – 3' [Option ID = 9697]
98) The concept of symbiogenesis was first articulated by [Question ID = 2354]
 Lynn Margulis [Option ID = 9414] Lynn Sagan [Option ID = 9416] Ivan Wallin [Option ID = 9413] Konstantin Mereschkowski [Option ID = 9415]
Correct Answer :- • Konstantin Mereschkowski [Option ID = 9415]
99) Mark the correct pairing of scientists and their contributionsI Nirenberg and Matthei1 TelomeraseII Sidney Altman and Thomas Cech2 DNA Polymerase IIII Arthur Kornberg3 RibozymeIV Elizabeth Blackburn4 Genetic code[Question ID = 2394]1. I-4; II-3; III-2; IV-1 [Option ID = 9575]2. I-4; II-3; III-1; IV-2 [Option ID = 9574]3. I-2; II-1; III-4; IV-3 [Option ID = 9573]4. I-3; II-4; III-2; IV-1 [Option ID = 9576]
Correct Answer :- • I-4; II-3; III-2; IV-1 [Option ID = 9575]
100) One molecule of Calmodulin, a calcium binding protein in eukaryotic cells binds to Ca ²⁺ ions.
[Question ID = 2420]
1. 4 [Option ID = 9677] 2. 2 [Option ID = 9678] 3. 8 [Option ID = 9679] 4. 14 [Option ID = 9680]
Correct Answer :- • 4 [Option ID = 9677]



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