| BO | T Z | ΛL | IV | 20 | \cap | 2 |
|---------|--------------|--------------|----|-----------|--------|-----|
| 1) () | ' I <i>F</i> | ~ ı \ | | / () | ,,,, | . 1 |

Whose investigation provided support for 'Continental Drift Theory'?

1.

| | (1) M.a.P. Iyengar (2) Birbal Sahni | (3) Norman E. Borlaug (4) F.w. Went |
|-----|---|---|
| 2. | Exstipulate leaves are present in: | |
| | (1) Althea rosea | (2) Tridax procumbens |
| | (3) Hibiscus rosa-sinensis | (4) Tephrosia purpurea |
| 3. | The morphological nature of the organ, whi | ch helps in climbing in Cardiospermum is: |
| | (1) Inflorescence axis | (2) Leaf apex |
| | (3) Terminal bud | (4) Axillary bud |
| 4. | Which of the following statements is correct | et ? |
| | (1) Replum is found in the ovary of Pisum | |
| | (2) The anthers are introse in Hibiscus | |
| | (3) The ovules are pendulous in Nelumbo | |
| | (4) Lateral style is found in Ocimum | 200 |
| 5. | several one seeded parts at maturity? | the ovary of a monocarpellate gynoecium and breaks into |
| | (1) Cremocarp (2) Carcerulus | (3) Regma (4) Lomentum |
| 6. | _ | s, is shared by Ruscus and ray florets of Tridax? |
| | (1) Nature of Perianth | (2) Unisexuality |
| _ | (3) Zygomorphy | (4) Number of stigmas |
| 7. | One of the following has been observed for | |
| | (1) Entry of the pollen tube into the ovule t | |
| | (2) Entry of the pollen tube into the ovule the | |
| | (3) Entry of the pollen tube into the ovule the | |
| 0 | (4) Formation of many pollen tubes from a | |
| 8. | Which one of the following is a suitable ref | |
| | (1) Ripening of androecium earlier to gyn | |
| | | he stigma of another flower present on the same plant he stigma of another flower, present on a different plant of the |
| | (3) Pollen grains of one flower reaching t same species | the stigina of another flower, present on a different plant of the |
| | (4) The inability of pollen to germinate or | the stigma of the same f10wre |
| 9. | | vanced morphological characters based on the evolutionary |
| | significance. Which one of the following se | - · · |
| | the same? | |
| | | |
| | (1) Dioecious condition, gamopetalous cord | olla and multiple fruit |
| | (2) Actinomorphic flowers, free stamens an | d endospermic seeds |
| | (3) Perennial life span, diclamydeous flowe | r and simple fruit |
| | (4) Simple leaves, monoecious condition ar | nd apocarpous pistil |
| 10. | Which series ends with the cohort umbellal | es in Bentham and Hooker's system of classification? |
| | (1) Thalamiflorae (2) Disciflorae | (3) Heteromerae (4) Calyciflo.rae |
| 11. | Number of carpels in Sida cordifolia is alwa | ays: |
| | (1) Equal to the number of styles | (2) Equal to the number of locules |
| | | |
| | | |

| | (3) Double the num | ber of styles | (4) Half the number o | of locules |
|-----|--|-----------------------------|----------------------------|---|
| 12. | A botanist collecte | ed some fruits with h | ook-like spines and w | then the seeds of the same have been |
| | germinated they tu Tile fruits he collect | | ceous tax 'a', bearing as | sepalous and wind pollinated followers. |
| | (1) Xanthium strum | narium | (2) Lactuca sativa | |
| | (3) Carthamus tinct | orius | (4) Sphaeranthus indi | ca |
| 13. | | | | fertile anther lobe of its flower contains as does the inflorescence produce? |
| | (1) 64500 | (2) 32250 | (3) 19350 | (4) 16125 |
| 14. | Rice bran oil is use | d as an: | | |
| | (1) Antibiotic | (2) Anticorrosive | (3) Antihelmenthic | (4) Insecticide |
| 15. | In a double helix of of guanine, nitroger | | coils, if there are 30 ade | nine nitrogen bases, what is the number |
| | (1) 30 | (2) 60 | (3) 70 | (4) 80 |
| 16. | Which one of the fo | ollowing is correct mate | ch? | 40 |
| | (1) Monarch-Nicoti | ana tabacum | (2) Diarch-Trapa nata | ins |
| | (3) Triarch-Pisum s | ativum | (4) Tetrarch-Ricinus of | communis |
| 17. | The meristem in w | hich the cells divide in | several planes is: | |
| | (1) Plate meristem | | (2) Rib meristem | |
| | (3) Mass meristem | | (4) Lateral meristem | |
| 18. | Non-articulated lati | cifers are found in: | | |
| | (1) Nerium | (2) Papaver | (3) Hevea | (4) Achras |
| 19. | Compound sieve pl | ates are found in: | | |
| | (1) Cucurbita | (2) Vitis | (3) Magnolia | (4) Corchorus |
| 20. | The pollen are liber | rated in Cassytha by: | | |
| | (1) Porous dehiscer | nce | (2) Longitudinal dehi: | scence |
| | (3) Transverse dehi | scence | (4) Valvular dehiscen | ce |
| 21. | Number of androcy to Polypodiaceae is | | 2 male gametes in the p | plant with dicyclic dictyostele belonging |
| | (1) 4 | (2) 8 | (3) 6 | (4) 32 |
| 22 | The terminal steril Cycas, is known as | | , considered to be an o | equivalent of angiospermous stamen in |
| | (1) Columella | (2) Hapteron | (3) paraphysis | (4) Apophysis |
| 23. | The chemical subst | ances responsible for tl | he slimy nature of merm | naids tresses is : |
| | (1') Pectin | (2) Chitin | (3). Lignin | (4) Cellulose |
| 24. | The organism whic | h causes pneumonia in | human beings is | |
| | (1) Atrichous | (2) Monotrichous | (3) Amphitrichous | (4) Peritrichous |
| 25. | A pathogen accum | ulates its secretion in the | he xylem vesels of a pla | ant, whose seed epiderminal hairs are of |
| | great economic imp | ortance. Identify the pa | athogen, | |
| | (1) Fusarium oxysp | orum | (2) Xanthomonas citri | i |
| | (3) Phytophthora in | festans | (4) Puccinia purpurea | |
| 26. | Which one of the for infectious disease? | ollowing is useful in ide | entifying the different st | rains of a causal microbe of an |
| | (1) Colchicine | (2) Agrobacterium | (3) Complementary D | NA (4) Crystal violet |

| 27. | Choose the chemical used in artificial po | olyploidy: | |
|-----|---|--------------------------|---|
| | (1) Polyethylene glycol | (2) Sodium alginate | , |
| | (3) Acenapnthene | (4) Sodium hypochl | lorite |
| 28. | Which mushroom contains muscarine? | | |
| | (1) Agarious bisporus | (2) Volveriella volv | racea |
| | (3) Pleurotus sojar-kaju | (4) Amanita virosa | ~// |
| 29 | .How does the ephemeral Tribulus tide of | over the dry conditions? | A 600 |
| | (1) By its tuberous stem | | |
| | (2) By its serial stem | | |
| | (3) By lying in the form of seeds | | |
| | (4) By storing water in different parts of | its body | |
| 30. | The relationship among different types of | of soil water can be sum | med up by the following equation: |
| | (1) Chresard = echard + hollard | (2) Chresard = holla | ard - echard |
| | (3) Echard = hollard + chresard | (4) Hollard = Cl1res | sard - ech <mark>ard</mark> |
| | | | |
| | | | |
| 31. | Which of the following reactions doesn't Powerhouse of the cell ? | es not take place in t | he cell organelle, that is referred to as |
| | (1) Glycine decarboxylation | | |
| | (2) Glyceraldehyde 3-phosphate dehydro | ogenation | |
| | (3) Fumaric acid hydration | .0 | |
| | (4) Cytochrome C oxidation | | |
| 32. | Identify the specific group, which carr | ies out the following b | iochemical reaction. Aspartic acid + ∞ - |
| | ketoglutaric acid → Oxaloacetic acid + Oxaloacetic acid | Glutamic acid | |
| | (1) Synthetases (2) Peptidases | (3) Transaminases | (4) Lyases |
| 33. | When one molecule of glucose is comple carbon dioxide are released due to tricar | | erobic respiration, how many molecules of |
| | (1) One (2) Two | (3) Three | (4) Four |
| 34. | During photo respiration, the conversion organelle | n of, phospho glycolate | to glycolate takes place in this cell |
| | (1) Mitochondria (2) Glyoxysome | (3) Peroxisome | (4) Chloroplast |
| 35. | A plant with low CO2 compensation poi | ` ' | (1) 01110101111111 |
| | (1) Atriplex patula | (2) Leucopoa kingii | |
| | (3) Gossypium' hirsutum | (4) Tidestromia Obl | |
| 36. | | ` ' | available gas in the atmosphere for one of |
| | - | _ | ndantly available for its another metabolic |
| | (1) Azotobacter (2) Clostridium | (3) Rhodomicrobiti | m (4) Xanthomonas |
| 37. | | , , | olyzing enzymes during the germination of |
| | maize seeds, is employed for the following | _ | |
| | (1) Increasing the vase - life period of flo | owers | |
| | (2) Induction of seedless fruits in grapes | | |
| | (3) Acceleration of ripening of banana fr | ruits | |
| | (4) Eradication of dicot weeds | | |

38. During which phase of their replication, the bacteriophages release lysozyme?

(1) Adsorption

(2) M.aturation

(3) Eclipse

(4) Penetration

39. Swollen and spongy petioles are characteristic of:

Dounload From Mills

(2) Wolffia

(3) Ceratophyllum

(4) Limnophila

The photoperiodic cycles of 6 hours of dark period and 18 hours of light period induce flower formation 40.

in:

(1) Xanthium

(2) Tobacco

(3) Soyabean

(4) Beta

| | ANSWERS | | | | | | 0 | |
|--------|-----------|--------|--------|--------|------------|---------------|--------|--------|
| (1) 2 | (2) 2 | (3) 1 | (4) 3 | (5) 4 | (6) 2 | (7) 2 (8) 3 | (9) 1 | (10) 4 |
| (11) 2 | $(12)\ 1$ | (13) 3 | (14) 2 | (15) 3 | (16) 3 | (17) 3 (18) 1 | (19) 2 | (20) 4 |
| (21) 4 | (22) 4 | (23) 1 | (24) 1 | (25) 1 | $(26) \ 3$ | (27) 3 (28) 4 | (29) 3 | (30) 2 |
| (31) 2 | (32) 3 | (33)4 | (34)4 | (35)4 | (36) 2 | (37) 2 (38) 4 | (39) 1 | (40) 4 |