

|     | A           | В           | С           |
|-----|-------------|-------------|-------------|
| (a) | Directional | Stabilizing | Disruptive  |
| (b) | Stabilizing | Directional | Disruptive  |
| (c) | Disruptive  | Stabilizing | Directional |
| (d) | Directional | Disruptive  | Stabilizing |

- **9.** Origin of life from pre-existing life is propounded by
  - (a) Biogenesis theory

(b) Abiogenesis theory

(c) Special creation theory

- (d) Extra terrestrial theory
- 10. Darwin's finches provide an excellent evidence in favour of organic evolution. These are related to which of the following evidences?
  - (a) Anatomy
- (b) Biogeography
- (c) Embryology
- (d) Palaentology
- 11. Which of the following is not vestigeal in man?
  - (a) Tail vertebrae

(b) Nictitating membrane

(c) Nails

- (d) Vermiform appendix
- 12. Living organism with complete fossil history is
  - (a) Dinosaur
- (b) Archaeopteryx
- (c) Horse
- (d) Man
- 13. Phenomenon of organisms having dissimilar structure with a similar origin is
  - (a) Mimicry
- (b) Analogy
- (c) Homology
- (d) Both A and B
- 14. The organs, which are functionally different but are related through common descent, are
  - (a) Analogous
- (b) Homologous
- (c) Divergent organs
- (d) Parallel organs

23. Adaptive radiation in a taxon is mainly due to

(a) allopatric distribution

(c) parapatric distribution

**24.** Darwin's theory of pangenesis proposes

(b) sympatric distribution(d) orthopatric distribution

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- (a) Some physical basis of inheritance
- (b) Development of useful organs and degeneration of useless organs
- (c) Increase in organ size with age
- (d) Development of organs due to will power
- 25. Which one of the following sequences was proposed by Darwin and Wallace for organic evolution?
  - (a) Overproduction, variations, constancy of population size, natural selection
  - (b) Variations, constancy of population size, overproduction, natural selection
  - (c) Overproduction, constancy of population size, variations, natural selection
  - (d) Variations, natural selection, overproduction, constancy of population size
- 26. There are two opposing views about origin of modern man. According to one view Homo erectus in Asia was ancestor of modern man. A study of variations of DNA, however suggested African origin of modern man. What kind of observation on DNA variations could suggest this
  - (a) Greater variation in Asia than in Africa
- (b) Greater variation in Africa than in Asia
- (c) Similar variation in Africa and Asia
- (d) Variation only in Asia and no variation in Africa

- 27. Adaptive radiation refers to
  - (a) Evolution of different species from a common ancestor
  - (b) Migration of members of a species to a geographical area
  - (c) Power of adaptation in an individual to a variety of environments
  - (d) Adaptation due to geographical isolation
- 28. Crocodile and Penguin are similar to Whale and Dogfish in which one of the following features?
  - (a) Have gill slits at some stage
  - (b) Possess a solid single stranded central nerovous system
  - (c) Lay eggs and guard them till they hatch
  - (d) Possess bony skeleton
- **29.** Which one of the following are analogous structures?
  - (a) Wings of Bat and Wings of Pigeon
  - (b) Gills of Prawn and Lungs of Man
  - (c) Thorns of Bougainvillea and Tendrils of Cucurbita
  - (d) Flippers of Dolphin and legs of Horse
- **30.** The wings of a bird and the wings of an insect are :
  - (a) analogous structures and represent convergent evolution
  - (b) phylogenetic structures and represent divergent evolution
  - (c) homologous structures and represent convergent evolution
  - (d) homologous structures and represent divergent evolution

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| 1. (a)<br>2. (b)   |  |  |  |  |
| 3. (b)   |  |  |  |  |
| <b>4.</b> (d)  |  |  |  |  |
| <ol> <li>(a)</li> <li>(b)</li> <li>(d)</li> <li>(d)</li> </ol> |  |  |  |  |
| <b>6.</b> (b)  |  |  |  |  |
| 7. (a)   |  |  |  |  |
| <b>8.</b> (b)  |  |  |  |  |
| <b>9.</b> (a)  |  |  |  |  |
| <b>10.</b> (b)   |  |  |  |  |
| 11. (c)  |  |  |  |  |
| <b>12.</b> (c)   |  |  |  |  |
| <b>13.</b> (c)   |  |  |  |  |
| <b>14.</b> (b)   |  |  |  |  |
| <b>15.</b> (d)   |  |  |  |  |
| <b>16.</b> (b)   |  |  |  |  |
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| <b>20.</b> (c)   |  |  |  |  |
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| <b>22.</b> (b)   |  |  |  |  |
| <b>23.</b> (a)   |  |  |  |  |
| 24. (a)<br>25. (c)   |  |  |  |  |
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| BY SWADHIN SIR   |  |  |  |  |