

- a) 2A
- b) 2B
- c) 3A
- d) 3B

11. The crystalline basement in the continental crust is occasionally found to be underlain by lower seismic P-wave velocity granitic laccolith. **T** **Marks: 1**

12. The Conrad discontinuity is a prominent layer inside the Earth found globally. **F** **Marks: 1**

13. Which one of the following locations has the largest crustal thickness **Marks: 1**

- a) Chennai Coast
- b) Shillong
- c) Rishikesh
- d) **Tehri**

14. If a continental area is in perfect isostatic equilibrium, which of the following is true? **Marks: 1**

- a) Bouguer gravity anomaly will be negative.
- b) Free air gravity anomaly will be positive.
- c) **No uplift or subsidence is occurring.**
- d) None of these

15. Younger intrusive granites are the major source of heat in Tattapani geothermal fields. **F** **Marks: 1**

16. Which one of the following places is not located in heat flow Zone I? **Marks: 1**

- a) Ladakh
- b) **Ganeshpuri**
- c) Tattapani
- d) Surajkund

15. The temperature for significant biogenic gas generation lies at **Marks: 1**

- a) **<60°C**
- b) 60-120°C
- c) >120°C
- d) None of the above

17. The hydrogen-carbon ratio is improved during the Metagenesis phase of cooking of kerogen. **F** **Marks: 1**

18. The vertical distance from crest to spill plane is the closure of the trap. **T** **Marks: 1**

19. If the flexural rigidity of the subducting plate becomes zero, its flexural model is reduced to **Marks: 1**

- a) the scheme of Pratt hypothesis
- b) **the scheme of Airy hypothesis**
- c) the scheme of Vening hypothesis
- d) All the three
- e) None of the above.