

**Model Multiple Choice Questions**

1. Father is four times the age of his daughter. If after 5 years, he would be three times of daughter's age, then further after 5 years, how many times he would be of his daughter's age?

- (1) 1.5 times (2) 2 times (3) 2.5 times (4) 3 times

2. Which of the following rivers does not flow into the Arabian Sea?

- (1) Tungabhadra (2) Sabarmati (3) Mandovi (4) Narmada

3. The length of lid used over the prop during setting of support in underground mine should be not less than

- (1) 50cm (2) 20cm (3) 40cm (4) 30cm

4. Graham's Ratio is the ratio of

- (1)  $\text{CO}_2/\text{O}_2$  consumed (2)  $\text{CO}/\text{O}_2$  consumed (3)  $\text{CO}/\text{N}_2$  consumed (4) None of these

5. A mining sirdar will not perform the duties of shot firer when the number of persons working under his charge in underground will be

- (1) 50 or more (2) 30 or more (3) 25 or more (4) 20 or more

6. Which type of ventilation is required for hot and deep mines

- (1) Ascensional (2) Descensional (3) Any of the two (4) Both

7. Regarding support of the underground working which of the following is framed by the Mine Manager

- (1) RMR (2) SSR (3) RQD (4) R&D

8. The slope of a spoil bank in a mechanized opencast mine shall be determined by the natural angle of repose of the material being deposited but, in any case, shall not exceed \_\_\_\_\_ degrees from the horizontal

- (1)  $45^\circ$  (2)  $37.5^\circ$  (3)  $60^\circ$  (4)  $30^\circ$

9. Which one of the following composition of methane in air is most explosive in nature?

- (1) 7.5% by volume (2) 9.5% by volume (3) 11.5% by volume (4) 13.5% by volume

10. Which of the following excavator is preferred to be used for a bench height of 20 m to 30 m in soft rock formation?

- (1) Dragline (2) Shovel (3) Bucket wheel excavator (4) Payloader