

Higher Secondary (Vocational)
CLASS XI
Semester - 1
Basic Civil Theory

Time Allowed: 45 Mins

Full Marks: 20

A. Choose the correct alternative from the following

1. First class brick should not absorb water more than___ percentage of its own dry weight after 24 hours immersion in cold water.
 - a. 10%
 - b. 15%
 - c. 20%
 - d. 25%
2. The percentage of alumina in a good brick clay should vary from
 - a. 20% to 30%
 - b. 30% to 40%
 - c. 40% to 50%
 - d. 50 to 60%
3. The compressive strength of granite is
 - a. 50 to 70 MN/m²
 - b. 70 to 130 MN/m²
 - c. 130 to 170 MN/m²
 - d. 170-200 MN/m²
4. Specific gravity of stone should not in any case be less than
 - a. 1
 - b. 1.5
 - c. 2.0
 - d. 2.5
5. A good building stone is one which does not absorb more than _ of its weight of water after one days immersion.
 - a. 5%
 - b. 10%
 - c. 15%
 - d. 25%
6. Fine aggregates should pass through IS _ sieve
 - a. 2.35 mm
 - b. 0.045mm
 - c. 4.75mm
 - d. 0.075mm
7. Bulking of sand occurs due to presence of
 - a. Moisture

- b. clay
 - c. voids
 - d. none of the above.
8. Ordinary Portland Cement of 43 grade means
- a. Compressive strength of 1:3 cement sand mortar cube not less than 43 N/mm^2
 - b. Compressive strength of 1:3 cement sand mortar cube equal to 43 N/mm^2
 - c. Compressive strength of 1:3 cement sand mortar cube not more than 43 N/mm^2
 - d. None of the above
9. Apparatus used for setting time test of cement is
- a. Penetrometer
 - b. Vicat apparatus
 - c. Compression testing machine
 - d. Le Chatelier apparatus
10. Cement used in marine structures in the zone of tidal variations is
- a. Rapid Hardening Cement
 - b. Sulphate Resisting Cement
 - c. Ordinary Portland Cement
 - d. Portland Slag Cement
11. Lime that sets under water and become hard even in the absence of carbon-di-oxide is called
- a. Fat lime
 - b. Poor lime
 - c. Hydraulic lime
 - d. None of the above
12. Slaking of lime
- a. Generates a large amount of heat.
 - b. Absorbs large amount of heat.
 - c. Is regarded as a chemical change.
 - d. All of the above.
13. Cement Mortar is
- a. A composite mix of cement & sand
 - b. A composite mix of cement, sand & water
 - c. A composite mix of cement, stone chips & sand
 - d. A composite mix of cement, stone chips, sand & water
14. Mortar is used
- a. To cover unevenness constructed surface
 - b. To bind the building blocks
 - c. To provide even surface for laying courses of building blocks
 - d. All of the above
15. Inner part of a timber log surrounding the pitch, is known as
- a. Sapwood
 - b. heart wood
 - c. cambium layer

- d. none of these
16. ___tiles possess much better mechanical strength, scratch resistance, resistance to acids, alkalis and chemicals, compared to marble or natural granite.
- Ceramic tiles
 - Vetrified tiles
 - Glass mosaic tiles
 - Pvc tiles
17. Which of the following paints is most suitable for fire resistant
- Aluminium paints
 - asbestos paints
 - enamel paints
 - cement paints
18. Which one of the followings is most durable varnish
- Water varnish.
 - oil varnish.
 - spirit varnish
 - turpentine varnish
19. Asphalt is obtained from
- distillation of plastic.
 - distillation of bitumen.
 - distillation of petroleum
 - None of these.
20. Which of the following machine is used for digging trenches and foundations
- Graders.
 - Excavators.
 - Bulldozer
 - Loader

ANSWER KEY

1	c	2	a	3	b	4	d	5	a
6	c	7	a	8	a	9	b	10	b
11	c	12	a	13	b	14	d	15	b
16	b	17	b	18	b	19	c	20	b