

# TNRD Ariyalur Overseer Civil Engineering Diploma Based Questions and answers



1. Which one of the following questions is relevant to the construction estimates :

- A. Did the estimators precisely evaluate site conditions ?
- B. Did the estimators use short cut methods which may be unrealistic in their situation ?
- C. How much money will the contractor's risk, losing if he were to submit bid on the raw estimate of cost.
- D. All of these

Answer: Option D

2. The ratio obtained by dividing 'quick assets' by current liabilities is called

- A. Turnover ratio
- B. Acid test ratio
- C. Solvency ratio
- D. None of these.

Answer: Option B

3. Which one of the following definitions, is correct ?

- A. The ratio of total debt to share holder's equity is called 'debt ratio'.
- B. The ratio debt-to-total assets is called Debt-to-total asset ratio.
- C. The ratio of earnings before interest and taxes for a particular reporting period to the amount of interest charges for the period, is called interest coverage ratio.
- D. All of these

Answer: Option D

4. Pick up the element of the cost from the following:

- A. direct material
- B. direct labour
- C. Over head
- D. All of these

Answer: Option D

5. The estimator for definitive estimates must be able :

# TNRD Ariyalur Overseer Civil Engineering Diploma Based Questions and answers



- A. and an all-around construction expert.
- B. to read the plans and specifications to determine accurate quantities of permanent materials and installed Equipment.
- C. to express the job material requirements in dimensions suitable for costing and construction supplies.

Answer: Option C

6. The ratio of current assets to current liabilities is known as

- A. Liquidity ratio
- B. Current ratio
- C. Acid-Test (or Quick) ratio
- D. Debts ratio

Answer: Option B

7. Pick up the correct statement from the following:

- A. An annuity is a series of equal payments occurring at equal period of time.
- B. Annuity is called an equal payment or uniform payment series.
- C. An annuity may have periods of time of any length but should always be of equal length.
- D. All the above.

Answer: Option D

8. The construction estimate of a project is used by :

- A. the owner of the facility
- B. the consulting architect/engineer
- C. the contractor of the project
- D. All of these

Answer: Option D

9. Both architect and engineer make use of the cost estimate of the project:

- A. for site selection
- B. for designing of the project
- C. for choosing alternatives

# TNRD Ariyalur Overseer Civil Engineering Diploma Based Questions and answers



D.All of these

Answer: Option D

10.If a is the base amount expenditure, b is the increase in the operation cost each year over a period of n years, the total cost of maintenance is :

A.  $a + (n + 1) b$

B.  $a + (n - 1) b$

C.  $a \times (n - 1) b$

D.  $a - (n - 1) b$

Answer: Option B

11. A district road with a bituminous pavement has a horizontal curve of 1000 m for a design speed of 75 km ph. The super-elevation is

A. 1 in 40

B. 1 in 50

C. 1 in 60

D. 1 in 70

E. none of these.

Answer: Option A

12.The minimum value of camber provided for thin bituminous surface hill roads, is

A. 2.2%

B. 2.5%

C. 3.0%

D. 3.5%

Answer: Option B

13. Design of horizontal and vertical alignments, super-elevation, sight distance and grades, is worst affected by

A. width of the vehicle

B. length of the vehicle

C. height of the vehicle

# TNRD Ariyalur Overseer Civil Engineering Diploma Based Questions and answers



D.speed of the vehicle

Answer: Option D

14. Thickness of a pavement may be reduced considerably by

- A.compaction of soil
- B.stabilisation of soil
- C.drainage of soil
- D.combination of all the above.

Answer: Option D

15.The total length of a valley formed by two gradients - 3% and + 2% curve between the two tangent points to provide a rate of change of centrifugal acceleration  $0.6 \text{ m/sec}^2$ , for a design speed 100 km ph, is

- A.16.0 m
- B.42.3 m
- C.84.6 m
- D.none of these.

<https://www.freshersnow.com/previous-year-question-papers/>

Answer: Option C

16. Border Roads Organisation for hilly regions, was formed in

- A.1947
- B.1954
- C.1958
- D.1960
- E.1962

Answer: Option D

17. Pick up the incorrect statement from the following. The super-elevation on roads is

- A.directly proportional to width of pavement
- B.directly proportional to velocity of vehicles
- C.inversely proportional to acceleration due to gravity
- D.inversely proportional to the radius of curvature.

# TNRD Ariyalur Overseer Civil Engineering Diploma Based Questions and answers



Answer: Option B

18. The weaving length of a roadway is the distance

- A.between the channelising islands
- B.equal to half circumference
- C.equal to total width of adjoining radial roads
- D.equal to diameter of rotary.

Answer: Option A

19. Road markers along roads from the edge of a kerb should not be less than

- A.40 cm
- B.45 cm
- C.50 cm
- D.55 cm
- E.60 cm

<https://www.freshersnow.com/previous-year-question-papers/>

Answer: Option E

20. Traffic surveys are carried out

- A.to know the type of traffic
- B.to determine the facilities to traffic regulations
- C.to design proper drainage system
- D.all the above.

Answer: Option D

21. Which one of the following statements is correct ?

- A.Snow albedo falls at all wave length with the increase of grain size
- B.The effect of grain size on reflection is maximum in the near-IR region
- C.The effect of grain size on reflection is low in the visible region of the spectrum
- D.All of these

Answer: Option D

# TNRD Ariyalur Overseer Civil Engineering Diploma Based Questions and answers



22. The refractive index of the ocean water:

- A.increases with salinity
- B.increases with temperature
- C.decreases with salinity
- D.decreases with temperature

Answer: Option A

23. The arrangement of terrain features which provides attributes: the shape, size and texture of objects, is called :

- A.spectral variation
- B.spatial variation
- C.temporal variation
- D.None of these .

<https://www.freshersnow.com/previous-year-question-papers/>

Answer: Option B

24. Electromagnetic radiation :

- A.produces a time varying magnetic field and vice versa
- B.once generated, remains self-propagat-ing.
- C.is capable to travel across space
- D.consists of magnetic and electric fields
- E.All of these

Answer: Option E

25. Pick up the important characteristic of a target which facilitates its identification from the following:

- A.spectral variation
- B.spatial variation
- C.temporal variation
- D.polarisation variation
- E.All of these

Answer: Option E

# TNRD Ariyalur Overseer Civil Engineering Diploma Based Questions and answers



27. Pick up the excavation where measurements are made in square metres for payment.

- A. Ordinary cuttings up to 1 m
- B. surface dressing up to 15 cm depths
- C. Surface excavation up to 30 cm depths
- D. Both (b) and (c)
- E. Both (a) and (b)

Answer: Option D

28. The expected out turn of 2.5 cm cement concrete floor per manson per day

- A. 2.5 sqm
- B. 5.0 sqm
- C. 7.5 sqm
- D. 10 sqm

<https://www.freshersnow.com/previous-year-question-papers/>

Answer: Option C

29. The order of booking dimensions is

- A. Length, breadth, height
- B. Breadth, length, height
- C. Height, breadth, length
- D. None of these.

Answer: Option A

30. Pick up the correct statement in case of water supply.

- A. Pipes laid in trenches and pipes fixed to walls are measured separately
- B. Cutting through walls and floors are included with the item
- C. Pipes are classified according to their sizes and quality
- D. In laying pipes, the method of jointing and fixing is specifically specified
- E. All the above.

Answer: Option E