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Q :) Bolts are most suitable to carry

A : Shear force

B : Bending moment

C : Axial tension

D : Shear force and bending moment

Q :) Which of the following failures of bolted joint can be avoided by providing sufficient edge distance?

A : Bearing failure of bolt

B : Shear failure of bolt

C : Shear failure of plate

D : Tensile failure of plate

Q :) The distance between the center of two consecutive rivets measured along a row of rivets is called as:

A : Eccentric distance

B : Edge distance

C : Gauge

D : Pitch

Q :) The maximum shear stress of steel member flexure shall not exceed:

A : $0.4 f_y$

B : $0.66 f_y$

C : $0.5 f_y$

D : $0.45 f_y$

Q :) Which of the following types of the riveted joint is free from bending stress

A : Lap joint

B : Butt joint with single cover plate

C : Butt joint with double cover plate

D : None of the above

Q :) As per the Indian standard (IS) 800:2007, the partial safety factor for material resistance governed by yielding failure of the steel is

A : 1.10

B : 1.15

C : 1.20

D : 1.50

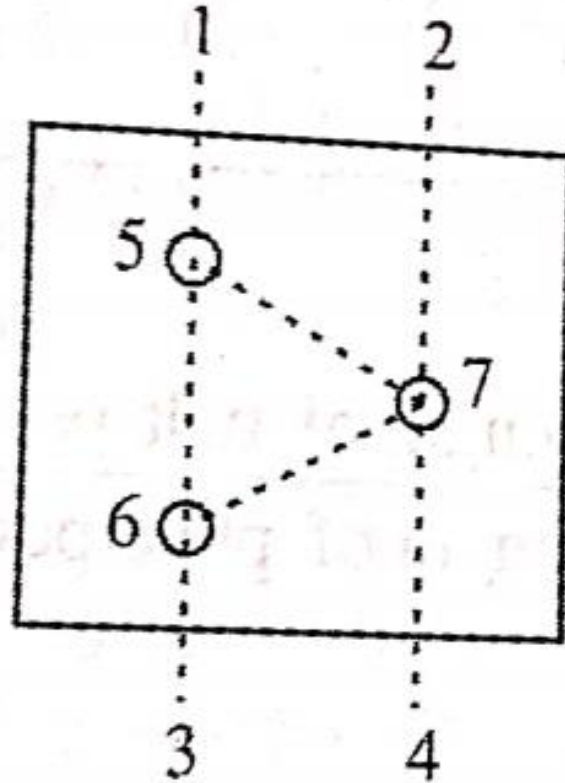
Q :) Which section to be considered in the design for the net area of flat?

A : 1-5-6-3

B : 2-7-4

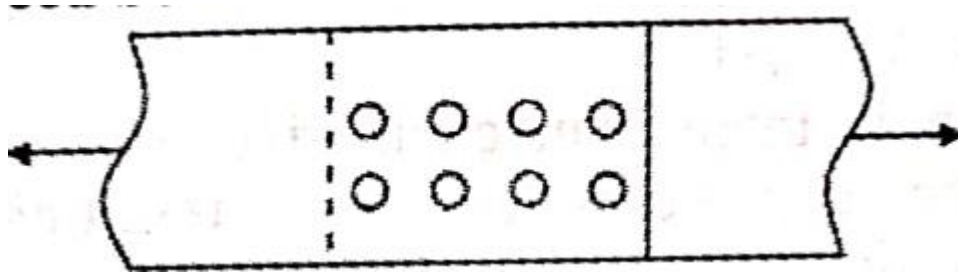
C : 1-5-7-4

D : 1-5-7-6-3



Q :) Statement (I): In a bolted joint, all similarly placed bolts share the load equally.

Statement (II): Bolts are placed in holes having slightly larger diameters.



A : Both statements-I and statement-II are individually true and statement-II is the correct explanation of statement-I.

B : Both statements-I and statement-II are individually true but statement-I

C : Statement-I is true but statement-II is false.

D : Statement-I is false but statement-II is true.

Q :) For commonly used HSFG bolts (IS1367 part 3, grade 8.8) yield stress f_{yb} is

A : 280 N/mm²

B : 360 N/mm²

C : 640 N/mm²

D : 940 N/mm²

Q :) If d is the gross diameter of rivet and p is the pitch of rivets the efficiency riveted joint is given by

A : $\frac{p+d}{d}$

B : $\frac{p}{p-d}$

C : $\frac{p-d}{p}$

D : $\frac{d}{p-d}$

Q :) At what change of price level is revised estimate prepared?

A : 2.0%

B : 2.5%

C : 4.0%

D : 5.0%

Q :) Measurement of 50 mm thick concrete flooring will be done in-

A : Cubic m

B : % sq m

C : Meter

D : Sq. m

Q :) The value of the dismantle property at the end of useful life period is known as

A : Scrap value

B : Salvation value

C : Junk value

D : consolidated value

Q :) All the tenders received may be rejected if

- (i) The lowest tender has quoted a figure, which is higher than the funds available for the execution of the work**
- (ii) Radical changes in design are found necessary during the interval preceding the opening of the tenders**
- (iii) The minimum number of tenders to assure adequate competition has not been received.**
- (iv) There exists a well-grounded suspicious collusion between tender or some other from of the fraud has been detected.**

Which of the following statements are correct?

- A : (i) and (ii)**
- B : (iii) and (iv)**
- C : (i), (ii) and (iii)**
- D : (i), (ii), (iii) and (iv)**

Q :) Cost slope is the ratio of

A : Increase in cost by increase in time

B : Decrease in cost by increase in time

C : Increase in cost by decrease in time

D : Decrease in cost by decrease in time

Q :) Which of the following is not included in tender document?

A : Declaration letter

B : Tender notice

C : Bill of quantities

D : Invoice

Q :) Of the total estimated cost of a building, electrification usually accounts for

A : 1%

B : 2%

C : 8%

D : 15%

Q :) Revised estimate is needed to be prepared when original estimate is exceeded or likely to exceed by more than

A : 5%

B : 10%

C : 15%

D : 20%

Q :) For 12 mm thick cement plastering 1 : 6 (cement : sand) on 100 sq.m. New brick work, the quantity of cement required is:

A : 0.305 m³

B : 0.274 m³

C : 0.197 m³

D : 0.200 m³

Q :) Which of the following is NOT applicable in contracts as far as security deposit is concerned?

A : Amount depends on tendered amount

B : Refundable after maintenance period

C : Amount can be withheld from any other contract with the same client

D : Necessary before entering into a contract

Q :) Independent float is an amount of time by which the start of an activity may be delayed without affecting.

- 1. The preceding of the following activity**
- 2. The start of a following activity**
- 3. The completion of the project**

A : 1 only

B : 2 only

C : 3 only

D : 1, 2 and 3

Q :) If the values of t_0 , t_p of an activity are 4 and 15, what is the variance of the activity?

A : 3.22

B : 3.36

C : 3.87

D : 3.92

Q :) The amount of time by which the start of the activity may be delayed without interfering with the start of any succeeding activity is called

A : Activity float

B : Free float

C : Total float

D : Interfering float

Q :) The probability distribution taken to represent the completion time in PERT analysis is

A : Gamma distribution

B : Normal distribution

C : Beta distribution

D : Log-normal distribution

Q :) In network techniques of construction management, optimistic time, pessimistic time and most likely time are the types of the estimates under which of the following?

A : CPM

B : Activity

C : PERT

D : Event



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