Assignment 1

The due date for submitting this assignment has passed. Due on 2019-09-11, 23:59 IST. As per our records you have not submitted this assignment.

1) The span of a bridge means:

(a) The maximum width of the bridge normal to traffic direction
(b) The length of the overhang part of the bridge
(c) The length of the bridge along traffic direction
(d) The vertical clearance between water level and bottom level of the bridge

○ a
○ b
○ c
○ d

No, the answer is incorrect.
Score: 0
Accepted Answers: c

2) The top part of the bridge used by vehicles is called

(a) Girder
(b) Deck
(c) Bearing
(d) Pier

○ a
○ b
3) According to the location of the main structural elements, slab bridges are classified as main structure.

(a) Below the deck line
(b) Coincides with the deck line
(c) Above the deck line
(d) None of these

No, the answer is incorrect.
Score: 0
Accepted Answers:
b

4) The width of carriage way for a single lane bridge should not be less than

(a) 3.25m
(b) 3.5m
(c) 4.25m
(d) 4.5m

No, the answer is incorrect.
Score: 0
Accepted Answers:
c

5) Codal provisions for loads and stresses related to road bridges are given in

(a) IRC 5
(b) IRC 6
(c) IRC 110
(d) IRC 112

No, the answer is incorrect.
Score: 0
Accepted Answers:
6) The total load of class 70R (tracked vehicle) as per IRC Loading is

- (a) 70t
- (b) 60t
- (c) 55t
- (d) 30t

No, the answer is incorrect.
Score: 0
Accepted Answers:
- b

1 point

7) The total load of a class A (wheeled vehicle) as per IRC loading is

- (a) 55.4t
- (b) 50.4t
- (c) 45.4t
- (d) 40.4t

No, the answer is incorrect.
Score: 0
Accepted Answers:
- a

1 point

8) The distance between front and rear wheel of a class 70R (wheeled vehicle) as per IRC loading is

- (a) 14.4m
- (b) 13.4m
- (c) 12.4m
- (d) 11.4m

No, the answer is incorrect.
Score: 0
Accepted Answers:
9) The distance between front and rear wheel of a class A (wheeled vehicle) as per IRC loading is

(a) 14.8m
(b) 16.8m
(c) 18.8m
(d) 20.8m

No, the answer is incorrect.
Score: 0
Accepted Answers: c

10) In a bridge, the expected value of load, $\mu_Q$ is 11.0kN with standard deviation $\sigma_Q = 2.5$. The expected value of resistance, $\mu_R$ is 15.0kN with standard deviation $\sigma_R = 1.2$. The reliability index $\beta$ will be equal to

(a) 1.082
(b) 1.442
(c) 1.803
(d) 2.164

No, the answer is incorrect.
Score: 0
Accepted Answers: b