



**Delhi Development Authority
(Recruitment Cell)**
Advertisement No. 03/2022/Rectt.Cell./Pers./DDA

Participant ID	
Participant Name	
Test Center Name	iON Digital Zone iDZ 2 Sector 62
Test Date	01/04/2023
Test Time	9:00 AM - 11:00 AM
Subject	Junior Engineer (Civil)

Section : Domain Questions

Q.1 According to IS 800-2007, the maximum value of effective slenderness ratio for compression flange of a beam against lateral torsional buckling is _____.

- Ans**
- 1. 300
 - 2. 280
 - 3. 415
 - 4. 200

Question ID : 630680197527
Status : Answered
Chosen Option : 1

Q.2 Which of the following is NOT a dissolved impurity present in water?

- Ans**
- 1. Hydrogen sulphide
 - 2. Salts
 - 3. Silt
 - 4. Nitrates

Question ID : 630680197486
Status : Answered
Chosen Option : 3

Q.3 Calculate the modulus of rigidity for an alloy body if its modulus of elasticity is found to be 200 Gpa. Consider that the Poisson's ratio of tested material is 0.25.

- Ans**
- 1. 120 GPa
 - 2. 80 GPa
 - 3. 600 GPa
 - 4. 100 GPa

Question ID : 630680197505
Status : Answered
Chosen Option : 2

Q.4 As per IS 456:2000, The cross-sectional area of longitudinal reinforcement shall be not less than _____ of the gross cross-sectional area of the column and the diameter of these bars shall not be less than _____, respectively.

- Ans
- 1. 0.8%, 10 mm
 - 2. 4.0%, 10 mm
 - 3. 0.8%, 12 mm
 - 4. 4.0%, 12 mm

Question ID : 630680197518
Status : Answered
Chosen Option : 2

Q.5 Identify the correct statement with respect to static indeterminacy for the given truss with hinged support at A and roller support at B. Consider that the diagonal members are NOT connected to each other.



- Ans
- 1. Statically indeterminate to degree three
 - 2. Statically indeterminate to degree one
 - 3. Statically indeterminate to degree two
 - 4. Statically determinate

Question ID : 630680197499
Status : Not Answered
Chosen Option : -

Q.6 Which of the following is NOT the role expected by fine aggregate in concrete?

- Ans
- 1. React with cement to form calcium silicate hydrate gel
 - 2. Make the concretes stiff and dense
 - 3. Improve workability of concrete
 - 4. Fill the voids between coarse aggregates

Question ID : 630680197510
Status : Answered
Chosen Option : 1

Q.7 Consider the below statements with respect to principles of surveying and identify the correct answer.

Statement A: Locate the position of a point on the ground by measurement from two reference points.

Statement B: Work from part to whole to prevent the undue accumulation of errors and thereby control and localize the minor errors.

- Ans**
- 1. Both statements are incorrect.
 - 2. Both statements are correct.
 - 3. Statement B is correct and A is incorrect.
 - 4. Statement A is correct and B is incorrect.

Question ID : 630680197460
Status : Answered
Chosen Option : 4

Q.8 _____ are manufactured by using lignocellulose materials, which are agglomerated, formed and pressed together by the use of an organic binder together in the presence of heat, pressure or moisture.

- Ans**
- 1. Veneers
 - 2. Block boards
 - 3. Plywood
 - 4. Particle boards

Question ID : 630680197453
Status : Answered
Chosen Option : 3

Q.9 According to IS 10262:2019, the approximate amount of entrapped air to be expected in normal (non-air-entrained) concrete is _____ of volume of concrete, if the nominal maximum size of aggregate used in concrete is 10 mm.

- Ans**
- 1. 0.50%
 - 2. 1%
 - 3. 2%
 - 4. 1.50%

Question ID : 630680197515
Status : Answered
Chosen Option : 4

Q.10 Consider the below statements with respect to the turbidity of water and identify the correct answer.

Statement A: Turbidity of water is imparted by the dissolved matter present in water.

Statement B: Jackson's turbidimeter is a laboratory apparatus which is used to measure the turbidity of water.

- Ans**
- 1. Statement B is correct and A is incorrect.
 - 2. Both statements are incorrect.
 - 3. Both statements are correct.
 - 4. Statement A is correct and B is incorrect.

Question ID : 630680197488
Status : Answered
Chosen Option : 3

Q.11 Consider the below statements with respect to retaining walls subjected to earth pressure and identify the correct answer. (Assume identical conditions for the soil)

Statement A: Active earth pressure is developed when the wall moves away from the backfill.

Statement B: The active earth pressure is greater than the earth pressure at rest.

- Ans
- 1. Both statements are incorrect.
 - 2. Statement A is correct and B is incorrect.
 - 3. Statement B is correct and A is incorrect.
 - 4. Both statements are correct.

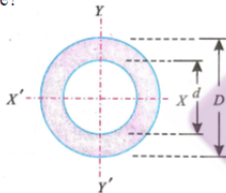
Question ID : 630680197524
Status : Not Answered
Chosen Option : -

Q.12 As per IS 10262: 2019, the required water content per cubic metre of concrete for the nominal maximum size of aggregate for the desired workability (other than 50 mm slump) may be increased or decreased by about _____ for each increase or decrease of 25 mm slump.

- Ans
- 1. 1%
 - 2. 5%
 - 3. 3%
 - 4. 10%

Question ID : 630680197512
Status : Not Answered
Chosen Option : -

Q.13 Which of the following expressions is correct to compute the moment of inertia (I_{yy}) of a hollow section shown in the figure?



- Ans
- 1. $\frac{\pi}{8}(D^4-d^4)$
 - 2. $\frac{\pi}{32}(D^4-d^4)$
 - 3. $\frac{\pi}{64}(D^4-d^4)$
 - 4. $\frac{\pi}{16}(D^4-d^4)$

Question ID : 630680197502
Status : Answered
Chosen Option : 3

Q.14 A bar of length 2.5 m is subjected to an axial pull of 200 kN, if the change in length due to the applied load is 5 mm, calculate the linear strain experienced by the bar in the direction of the applied load.

- Ans
- 1. 0.00725
 - 2. 0.25
 - 3. 0.0250
 - 4. 0.002

Question ID : 630680197496
Status : Answered
Chosen Option : 4

Q.15 A fully saturated soil mass is an example of a _____.

- Ans
- 1. two-phase system
 - 2. three-phase system
 - 3. four-phase system
 - 4. one-phase system

Question ID : 630680197469
Status : Answered
Chosen Option : 1

Q.16 A Pelton wheel turbine is a _____.

- Ans
- 1. tangential flow reaction turbine
 - 2. tangential flow impulse turbine
 - 3. radial flow impulse turbine
 - 4. radial flow reaction turbine

Question ID : 630680197485
Status : Answered
Chosen Option : 2

Q.17 Identify the INCORRECT statement with respect to asbestos material.

- Ans
- 1. Asbestos molecules are strongly bound together only in one direction, whereas the lateral bond with adjacent molecules is quite weak.
 - 2. Non-acid-resistant asbestos is represented by chrysotile asbestos.
 - 3. Asbestos is used to make sheets (A.C. sheets) and boards for roofing.
 - 4. When asbestos is heated at 550°C, asbestos loses elasticity and strength, becomes brittle and restores its properties on cooling.

Question ID : 630680197456
Status : Answered
Chosen Option : 4

Q.18 The average shear stress in a rectangular wooden beam 100 mm wide, 250 mm deep and 3 m long carrying a uniformly distributed load with an intensity of 40 kN/m is found to be 2.4 MPa, calculate the maximum shear stress.

- Ans**
- 1. 2.4 MPa
 - 2. 4.8 MPa
 - 3. 3.6 MPa
 - 4. 5.2 MPa

Question ID : 630680197503
Status : Answered
Chosen Option : 2

Q.19 Which of the following component of oil paint is used to thin the paint, increases the spread, and is also known as thinner?

- Ans**
- 1. Adulterant
 - 2. Vehicle
 - 3. Solvent
 - 4. Pigment

Question ID : 630680197459
Status : Answered
Chosen Option : 3

Q.20 Which of the following is NOT the effect of cold weather concreting?

- Ans**
- 1. Increased heat of hydration due to rapid hardening of cement
 - 2. Reduced rate of hydration of cement
 - 3. Delayed hardening of concrete
 - 4. Freezing of water contained in the plastic concrete

Question ID : 630680197517
Status : Answered
Chosen Option : 4

Q.21 Consider the below statements with respect to unit operations employed in water treatment and identify the correct answer.

Statement A: Objectionable gases such as carbon dioxide, hydrogen sulphide and other volatile odorous substances present in water can be removed by the bubble aeration technique.

Statement B: Chemical coagulation technique removes the suspended and colloidal impurities present in water.

- Ans**
- 1. Both statements are incorrect.
 - 2. Both statements are correct.
 - 3. Statement A is correct and B is incorrect.
 - 4. Statement B is correct and A is incorrect.

Question ID : 630680197489
Status : Not Answered
Chosen Option : -

Q.22 Consider the below statements with respect to the triangular weir and identify the correct answer.

Statement A: The triangular weir gives less accurate results than a rectangular weir for measuring low discharges.

Statement B: In the case of a triangular weir with known values of the angle of weir and co-efficient of discharge, the height of water over the weir is the only data required for the computation of discharge.

- Ans
- 1. Statement B is correct and A is incorrect.
 - 2. Statement A is correct and B is incorrect.
 - 3. Both statements are correct.
 - 4. Both statements are incorrect.

Question ID : 630680197484
Status : Answered
Chosen Option : 1

Q.23 The maximum water content at which reduction in water content will not cause a decrease in the volume of a soil mass is known as the _____.

- Ans
- 1. plastic limit
 - 2. toughness index
 - 3. liquidity index
 - 4. shrinkage limit

Question ID : 630680197473
Status : Answered
Chosen Option : 4

Q.24 The specific surface of cement is a property cement used to know the _____.

- Ans
- 1. soundness of cement
 - 2. strength of cement
 - 3. fineness of cement
 - 4. specific gravity of cement

Question ID : 630680197458
Status : Answered
Chosen Option : 3

Q.25 According to IS 1121 (Part I):1974, the diameter or lateral dimension (distance between opposite vertical faces) of a test piece of stone used for finding its compressive strength shall not be less than _____.

- Ans
- 1. 50 mm
 - 2. 25 mm
 - 3. 100 mm
 - 4. 75 mm

Question ID : 630680197452
Status : Answered
Chosen Option : 3

Q.26 As per IS 2386(Part IV)-1963, for the determination of aggregate impact value, the free fall height of metal hammer of weight 13.5 to 14 kg is _____.

- Ans**
- 1. 150(+/-)5 mm
 - 2. 380(+/-)5 mm
 - 3. 250(+/-)5 mm
 - 4. 330(+/-)5 mm

Question ID : 630680197511
Status : Answered
Chosen Option : 4

Q.27 Which of the following tests on workability allows the concrete to fall from a certain height, so that concrete is compacted partially?

- Ans**
- 1. Vee Bee consistometer test
 - 2. Slump test
 - 3. Flow test
 - 4. Compacting factor test

Question ID : 630680197508
Status : Answered
Chosen Option : 4

Q.28 Which of the following is NOT a grading characteristic estimated from the particle size distribution curve of a soil?

- Ans**
- 1. Coefficient of curvature
 - 2. Coefficient of compressibility
 - 3. Effective size
 - 4. Uniformity coefficient

Question ID : 630680197472
Status : Answered
Chosen Option : 2

Q.29 As per IS 456:2000, the maximum area of tension reinforcement shall not exceed _____ of the gross cross sectional area of the beam.

- Ans**
- 1. 6.0%
 - 2. 0.8%
 - 3. 2.5%
 - 4. 4.0%

Question ID : 630680197525
Status : Answered
Chosen Option : 4

Q.30 As per IS soil classification, which of the following symbols is used for poorly graded or gravelly sands?

- Ans
- 1. SP
 - 2. SC
 - 3. GP
 - 4. MH

Question ID : 630680197474
Status : Answered
Chosen Option : 1

Q.31 French polish is a type of _____ used to hide the grain defects on hardwood substances.

- Ans
- 1. water varnish
 - 2. spirit varnish
 - 3. asphalt varnish
 - 4. flat varnish

Question ID : 630680197457
Status : Not Answered
Chosen Option : -

Q.32 Pick the odd one out with respect to the type of failure of tension members.

- Ans
- 1. Gross section yielding
 - 2. Net section rupture
 - 3. Block shear failure
 - 4. Lateral torsional flexural buckling

Question ID : 630680197529
Status : Answered
Chosen Option : 2

Q.33 A soil sample has a porosity of 25%, calculate its void ratio.

- Ans
- 1. 0.25
 - 2. 0.33
 - 3. 0.67
 - 4. 0.50

Question ID : 630680197470
Status : Answered
Chosen Option : 2

Q.34 Identify the INCORRECT statement with respect to the wastewater carriage system.

Ans 1.

Chances of chocking are less in the combined system when compared to a separate system.

2.

The load on the treatment plant is less in the combined system when compared to a separate system.

3.

The sewage in the separate system will be of more uniform character, and so will lend itself more easily to putrefication.

4.

The large size of sewers is required in the combined system when compared to a separate system.

Question ID : 630680197495

Status : Answered

Chosen Option : 2

Q.35 Calculate the crippling load of a strut of effective length 4 m according to Euler's theory for long columns, take the modulus of elasticity material used in strut section as 'E' N/mm² and moment of inertia of strut as 'I' mm⁴. Consider that one end of the strut is fixed and another end is free.

Ans

1. $1.25\pi^2EI \times 10^{-8} \text{ N}$

2. $2.50\pi^2EI \times 10^{-8} \text{ N}$

3. $6.25\pi^2EI \times 10^{-8} \text{ N}$

4. $5.00\pi^2EI \times 10^{-8} \text{ N}$

Question ID : 630680197506

Status : Answered

Chosen Option : 3

Q.36 Bernoulli's equation is not applicable when the _____.

Ans

1. flow is incompressible

2. fluid is ideal

3. flow is rotational

4. flow is steady

Question ID : 630680197481

Status : Answered

Chosen Option : 3

Q.37 Which of the following type of vibrators is suitable for compacting screed concrete layer laid on existing floors with a thickness of less than 20 cm?

Ans

1. Internal vibrator

2. Form vibrators

3. Surface vibrators

4. Vibrating tables

Question ID : 630680197513

Status : Answered

Chosen Option : 3

Q.38 In which of the following system is the sewage allowed to sprinkle over a bed of coarse, rough and hard filter media, and it is then collected through the under drainage system?

- Ans**
- 1. Intermittent sand filters
 - 2. Trickling filters
 - 3. Activated sludge process
 - 4. Contact beds

Question ID : 630680197494
Status : Not Answered
Chosen Option : -

Q.39 For open channel flow with hydraulic radius as characteristic length, the flow is classified as turbulent, if Reynold's number of the flow is _____.

- Ans**
- 1. less than 500
 - 2. less than 2000
 - 3. more than 1000
 - 4. more than 2000

Question ID : 630680197483
Status : Answered
Chosen Option : 4

Q.40 Calculate the bulk modulus of an alloy body if its modulus of elasticity is found to be 180 Gpa. Consider that the Poisson's ratio of tested material is 0.25.

- Ans**
- 1. 150GPa
 - 2. 100GPa
 - 3. 180GPa
 - 4. 120GPa

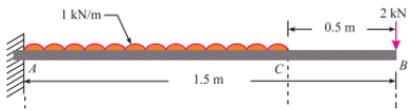
Question ID : 630680197497
Status : Answered
Chosen Option : 4

Q.41 Which of the following expressions is correct to calculate the correction for curvature (C_c) in levelling? Where, d is the distance sighted (measured in km).

- Ans**
- 1. $C_c = 0.6782d^2$ m
 - 2. $C_c = 0.07849d^2$ m
 - 3. $C_c = 0.5459d^2$ m
 - 4. $C_c = 0.02498d^2$ m

Question ID : 630680197464
Status : Answered
Chosen Option : 2

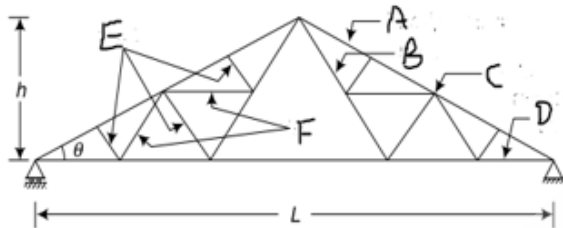
Q.42 A cantilever beam is subjected to a point load and uniformly distributed load with intensity 1 kN/m shown in the figure, calculate the shear force at point C.



- Ans
- 1. 3 kN
 - 2. 2 kN
 - 3. 1 kN
 - 4. 1.5 kN

Question ID : 630680197501
Status : Not Answered
Chosen Option : -

Q.43 Identify the member 'A' used in the truss shown in the figure.



- Ans
- 1. Purlin
 - 2. Principal rafter
 - 3. Side bracing
 - 4. Principal tie

Question ID : 630680197528
Status : Answered
Chosen Option : 2

Q.44 Which of the following laboratory tests is NOT used to determine the shearing resistance of soil?

- Ans
- 1. Direct shear test
 - 2. Vane shear test
 - 3. Recuperation test
 - 4. Unconfined compression test

Question ID : 630680197476
Status : Answered
Chosen Option : 3

Q.45 A block levelling data is presented in the below figure, starting with point A at one corner and ending with T in the diagonally opposite corner. If all the grids are spaced 10 m apart in both directions, determine the position (measured from point G) of the contour line with RL 91.5 m which intersects line GH.

P 90.85	Q 91.05	R 90.005	S 92.255	T 93.000
K 91.125	L 90.250	M 91.150	N 92.250	O 93.225
F 90.675	G 91.125	H 92.210	I 92.350	J 92.725
A 91.105	B 92.803	C 92.905	D 93.150	E 93.235

- Ans
- 1. 6.897 m
 - 2. 2.593 m
 - 3. 4.984 m
 - 4. 3.164 m

Question ID : 630680197467
 Status : Not Answered
 Chosen Option : -

Q.46 Which of the following statements is INCORRECT with respect to the water distribution system?

- Ans
- 1. Water available for firefighting will be limited since it is being supplied by only one water main in the dead-end system.
 - 2. In case of repair or break down in a pipe, the area connected to that pipe will continue to receive water from another side in the grid iron system.
 - 3. Less number of cut-off valves are necessary in the case of a circular distribution system when compared to dead end system.
 - 4. Sediments accumulate due to stagnation and can cause bacterial growth in the dead-end system.

Question ID : 630680197491
 Status : Answered
 Chosen Option : 3

Q.47 For open channel flow with hydraulic radius as characteristic length, the flow is classified as laminar, if Reynold's number of the flow is ____.

- Ans
- 1. between 500 to 2000
 - 2. less than 500
 - 3. more than 1000
 - 4. less than 1000

Question ID : 630680197480
 Status : Answered
 Chosen Option : 2

Q.48 Consider the below statements with respect to cutback bitumen and identify the correct answer.

Statement A: The addition of petroleum hydrocarbon (Kerosene) decreases the viscosity of the bitumen.

Statement B: The addition of petroleum hydrocarbon (Kerosene) increase the penetration of bitumen on the asphalt surface.

- Ans
- 1. Statement A is correct and B is incorrect.
 - 2. Both statements are incorrect.
 - 3. Both statements are correct.
 - 4. Statement B is correct and A is incorrect.

Question ID : 630680197455
Status : Not Answered
Chosen Option : -

Q.49 Consider the below statements with respect to Sewer appurtenances used in the sewerage system and identify the correct answer.

Statement A: Lamphole may be located when there is a change in the direction or gradient of the sewer in between two closely spaced manholes.

Statement B: Flushing tanks shall be constructed when there is a steeper downward gradient along the alignment of the sewer line.

- Ans
- 1. Statement A is correct and B is incorrect.
 - 2. Both statements are correct.
 - 3. Both statements are incorrect.
 - 4. Statement B is correct and A is incorrect.

Question ID : 630680197493
Status : Answered
Chosen Option : 1

Q.50 Consider the below statements with respect to the design of RCC beams and identify the correct answer.

Statement A: Spacing of shear reinforcement in a simply supported RCC rectangular beam shall be reduced at the middle portion along the length of the beam when compared to a portion of the beam near the supports.

Statement B: The position of longitudinal reinforcement shall be above the neutral axis in case of a cantilever beam subjected to uniformly distributed load directed towards down.

- Ans
- 1. Both statements are incorrect.
 - 2. Both statements are correct.
 - 3. Statement A is correct and B is incorrect.
 - 4. Statement B is correct and A is incorrect.

Question ID : 630680197519
Status : Answered
Chosen Option : 3

Q.51 The self-cleansing velocity of a sewer with a diameter of 30 cm to 60 cm is:

- Ans
- 1. 45 cm/sec
 - 2. 65 cm/sec
 - 3. 55 cm/sec
 - 4. 75 cm/sec

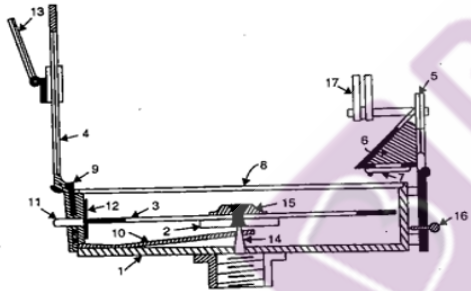
Question ID : 630680197492
Status : Answered
Chosen Option : 1

Q.52 As per IS 456: 2000, nominal cover to reinforcement in reinforced concrete structures, to meet the durability requirements in extreme exposure conditions shall not be less than ____.

- Ans
- 1. 25 mm
 - 2. 15 mm
 - 3. 75 mm
 - 4. 50 mm

Question ID : 630680197521
Status : Answered
Chosen Option : 3

Q.53 आकृति में प्रिज्मीय कम्पास का अनुप्रस्थ परिच्छेद दर्शाया गया है। संख्यांकित भाग 13 की पहचान करें।



- Ans
- 1. प्रिज्म छादन (Prism cap)
 - 2. उत्तोलक दंड (Lifting lever)
 - 3. दर्पण (Mirror)
 - 4. फोकसिंग पैच (Focusing stud)

Question ID : 630680197461
Status : Answered
Chosen Option : 4

Q.54 Identify the INCORRECT statement with respect to the advantages of the aeration technique used in water treatment.

Ans 1. It decreases the carbon dioxide content of water.

2.

It converts iron and manganese from their soluble state to insoluble state.

3. It reduces the pH value of water.

4.

It removes the taste and odour caused by gases due to organic decomposition.

Question ID : 630680197490

Status : Answered

Chosen Option : 2

Q.55 Two columns C_1 and C_2 spaced 3 m centre to centre, are subjected to axial loads of 600 kN and 800 kN, respectively. If good soil for the foundation with safe bearing capacity as 200 kN/m^2 , is available at 2 m depth below the ground level, identify the type of foundation which is suitable and economical. Assume the width of footing is restricted to 2 m.

Ans 1. Mat foundation

2. Isolated footing

3. Grillage foundation

4. Pile foundation

Question ID : 630680197523

Status : Not Answered

Chosen Option : -

Q.56 According to the Ministry of Environment, forest and climate change Government of India, which of the following classes of water can be used for the propagation of wildlife and fisheries?

Ans 1. Class A

2. Class C

3. Class D

4. Class B

Question ID : 630680197487

Status : Answered

Chosen Option : 2

Q.57 Consider the below statements with respect to characteristics of the bending moment diagram (BMD) for beam and identify the correct answer.

Statement A: If a beam is subjected to a uniformly distributed load throughout its span, the shape of BMD will be a cubic parabolic curve.

Statement B: If a cantilever beam is subjected to a uniformly varying load (UVL) throughout its span the maximum value of bending moment will be at a distance of $\frac{2}{3}$ rd of the span measured from zero intensity of UVL.

- Ans
- 1. Statement B is correct and A is incorrect.
 - 2. Both statements are correct.
 - 3. Statement A is correct and B is incorrect.
 - 4. Both statements are incorrect.

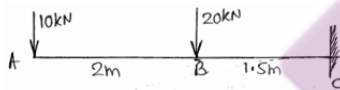
Question ID : 630680197500
Status : Answered
Chosen Option : 1

Q.58 Calculate the specific gravity of a liquid if its density is 830 kg/m^3 . Take density of water as 1000 kg/m^3 .

- Ans
- 1. 1.200
 - 2. 0.830
 - 3. 0.814
 - 4. 1.320

Question ID : 630680197478
Status : Answered
Chosen Option : 2

Q.59 A cantilever beam of span 3.5 m is subjected to 2 point load shown in the figure. Calculate the slope at point A. Take EI as constant throughout its length.



- Ans
- 1. $-\frac{56.25}{EI}$
 - 2. $-\frac{156.5}{EI}$
 - 3. $-\frac{120}{EI}$
 - 4. $-\frac{83.75}{EI}$

Question ID : 630680197504
Status : Not Answered
Chosen Option : -

Q.60 Find the surface tension in a soap bubble of 80 mm diameter, having an internal pressure 3 N/m^2 in excess of the outside pressure.

- Ans
- 1. 0.01 N/m
 - 2. 0.08 N/m
 - 3. 0.24 N/m
 - 4. 0.03 N/m

Question ID : 630680197479
Status : Answered
Chosen Option : 4

Q.61 Following the working stress method of design as per IS 456:2000, calculate the modular ratio of M30 grade concrete subjected to compressive stress due to bending, considering the permissible compressive stress in M30 grade concrete in bending as 10 N/mm^2 .

- Ans
- 1. 16.00 N/mm^2
 - 2. 9.33 N/mm^2
 - 3. 11.25 N/mm^2
 - 4. 14.00 N/mm^2

Question ID : 630680197520
Status : Answered
Chosen Option : 2

Q.62 Identify the direct method of contouring in a survey work.

- Ans
- 1. Contouring by vertical and horizontal control
 - 2. Contouring by cross sections
 - 3. Contouring by squares
 - 4. Contouring by tacheometric method

Question ID : 630680197466
Status : Answered
Chosen Option : 3

Q.63 A circular shaft of 40 mm diameter is required to transmit torque from one shaft to another. Find the safe torque, which the shaft can transmit if the shear stress is not to exceed 32 Mpa .

- Ans
- 1. $2.56 \pi \times 10^5 \text{ N-mm}$
 - 2. $0.75 \pi \times 10^5 \text{ N-mm}$
 - 3. $1.28 \pi \times 10^5 \text{ N-mm}$
 - 4. $2.25 \pi \times 10^5 \text{ N-mm}$

Question ID : 630680197507
Status : Not Answered
Chosen Option : -

Q.64 Calculate the target mean compressive strength at 28 days for M25 grade concrete, if the assumed standard deviation is 4 N/mm^2 .

- Ans**
- 1. 31.60 N/mm^2
 - 2. 38.25 N/mm^2
 - 3. 25.00 N/mm^2
 - 4. 42.25 N/mm^2

Question ID : 630680197516
Status : Answered
Chosen Option : 1

Q.65 Which of the following structures is classified as a statically indeterminate structure?

- Ans**
- 1. Cantilever beam
 - 2. Overhanging beam with one hinged support and another roller support
 - 3. Propped cantilever beam
 - 4. Three hinged arch

Question ID : 630680197498
Status : Answered
Chosen Option : 1

Q.66 At the time of grinding of cement clinker, a small quantity of Gypsum is added to the clinker _____.

- Ans**
- 1. to reduce the amount of sulphates in cement
 - 2. to prevent the flash setting of cement
 - 3. to increase the rate of hardening of cement
 - 4. to reduce the shrinkage of cement

Question ID : 630680197509
Status : Answered
Chosen Option : 3

Q.67 Cross sections, which can develop the plastic moment of resistance, but have inadequate plastic hinge rotation capacity for the formation of a plastic mechanism before buckling are classed as:

- Ans**
- 1. compact sections
 - 2. semi compact sections
 - 3. slender sections
 - 4. plastic sections

Question ID : 630680197526
Status : Not Answered
Chosen Option : -

Q.68 The inverted staff reading (back sight) taken at the soffit of a cantilever beam point A is 2.065m. The staff reading at point B (fore sight) with normally held staff is 1.250 m. The RL of point B is _____ .

Take reduced level at point A as 100 m.

- Ans
- 1. 96.685 m
 - 2. 100.815 m
 - 3. 97.935 m
 - 4. 99.185 m

Question ID : 630680197465
Status : Not Answered
Chosen Option : -

Q.69 As per IS 1130:1969, marble slabs shall be supplied with the thickness that ranges between _____ .

- Ans
- 1. 15 and 75 mm
 - 2. 20 and 150 mm
 - 3. 50 and 200 mm
 - 4. 5 and 50 mm

Question ID : 630680197451
Status : Answered
Chosen Option : 2

Q.70 Which of the following minor losses in pipe flow is taken as $\frac{V^2}{2g}$? Where V is the velocity of liquid in a pipe.

- Ans
- 1. Loss of head at the entrance of a pipe with sharp cornered entrance
 - 2. Loss of head due to friction
 - 3. Loss of head at the exit of the pipe
 - 4. Loss of head due to obstruction in a pipe

Question ID : 630680197482
Status : Answered
Chosen Option : 3

Q.71 Identify the INCORRECT statement with respect to the influence of compaction on the properties of soil.

- Ans
- 1. A well-compacted soil shows increased permeability when compared to poorly compacted soil.
 - 2. A well-compacted soil shows reduced compressibility when compared to poorly compacted soil.
 - 3. A well-compacted soil shows increased density when compared to poorly compacted soil.
 - 4. A well-compacted soil shows increased shear strength when compared to poorly compacted soil.

Question ID : 630680197477
Status : Answered
Chosen Option : 1

Q.72 Identify the INCORRECT statement with respect to concrete making.

Ans 1.

Bleeding of concrete reduces the possibility of laitance formation on concrete surface

2.

Weigh batching is more precise compared to volume batching in making concrete

3. Machine mixing is more efficient than hand mixing

4.

The separation of ingredients of concrete is termed as segregation of concrete

Question ID : 630680197514

Status : Answered

Chosen Option : 1

Q.73 As per IS 456: 2000, to ensure the lateral stability in a cantilever beam, the clear distance from the free end of the cantilever to the lateral restraint shall not exceed _____; where b is the breadth of the compression face midway between the lateral restraints.

Ans 1. 40 b

2. 60 b

3. 75 b

4. 25 b

Question ID : 630680197522

Status : Answered

Chosen Option : 2

Q.74 The natural water content, liquid limit, and plastic limit of a clay sample are 22%, 44%, and 19%, respectively. Calculate its consistency index.

Ans 1. 0.65

2. 0.76

3. 0.97

4. 0.88

Question ID : 630680197475

Status : Answered

Chosen Option : 4

Q.75 According to IS 12269:2013, insoluble residues in OPC 53 grade cement shall not be greater than _____ by mass.

Ans 1. 3%

2. 1.5%

3. 2%

4. 4%

Question ID : 630680197454

Status : Answered

Chosen Option : 2

Q.76 The water content in a natural soil deposit is found to be 15%, calculate the degree of saturation if its void ratio is 0.50.
Consider that the specific gravity of soil is 2.7.

- Ans**
- 1. 98%
 - 2. 81%
 - 3. 92%
 - 4. 75%

Question ID : 630680197471
Status : Answered
Chosen Option : 2

Q.77 In Tacheometric surveying, the Subtense bar method is also called the _____.

- Ans**
- 1. tangential method
 - 2. movable hair method
 - 3. fixed hair method
 - 4. normal chord method

Question ID : 630680197468
Status : Answered
Chosen Option : 3

Q.78 The direction of a line AB measured in whole circle bearing system is found to be $105^{\circ}30'$, the direction of the same line in quadrantal bearing system is ____.

- Ans**
- 1. $S 74^{\circ}30' E$
 - 2. $S 105^{\circ}30' W$
 - 3. $N 285^{\circ}30' W$
 - 4. $N 15^{\circ}30' E$

Question ID : 630680197462
Status : Answered
Chosen Option : 1

Q.79 In a traverse surveying, the direction of a line PQ of length 320 m measured in the whole circle bearing system is found to be $30^{\circ}00'$. Calculate its departure.

- Ans**
- 1. 125.27
 - 2. 320 m
 - 3. 277.12 m
 - 4. 160 m

Question ID : 630680197463
Status : Answered
Chosen Option : 4

Q.80 Consider the below statements with respect to plate girders and identify the correct answer.

Statement A: The intermediate transverse stiffener increases the buckling resistance of the web caused by shear.

Statement B: When the computed shear stress in the web of a plate girder is less than the critical shear stress, intermediate stiffeners are theoretically not required.

- Ans
- 1. Statement A is correct and B is incorrect.
 - 2. Both statements are correct.
 - 3. Statement B is correct and A is incorrect.
 - 4. Both statements are incorrect.

Question ID : 630680197530
Status : Not Answered
Chosen Option : -

Section : Reasoning

Q.1 If

'Q \mathcal{J} R' means 'Q is the daughter of R',

'Q + R' means 'Q is the son of R',

'Q % R' means 'Q is the wife of R',

'Q © R' means 'Q is the brother of the wife of R' and

'Q μ R' means 'Q is the father of R',

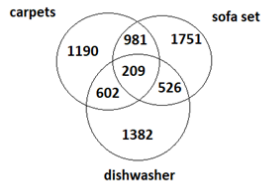
then how is N related to K in the following expression?

M μ N \mathcal{J} O \mathcal{J} P + K

- Ans
- 1. Daughter of son's daughter
 - 2. Son of daughter's son
 - 3. Daughter
 - 4. Son's daughter

Question ID : 630680197534
Status : Answered
Chosen Option : 1

Q.2 Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the numbers of people with different favourite household items.



How many people's favourite household items are either only carpets or only sofa set or both?

- Ans**
- ✓ 1. 4131
 - ✗ 2. 1870
 - ✗ 3. 5259
 - ✗ 4. 3922

Question ID : 630680197532

Status : Answered

Chosen Option : 4

Q.3 Eight toddlers, C, P, D, R, E, T, U and F, are sitting around a square table, facing the centre of the table. Four of them are sitting at the corners, while four are sitting at the exact centre of the sides. U is sitting at the immediate right of P. P and E are sitting diagonally opposite to each other. R and C are sitting diagonally opposite to each other. F is sitting to the immediate right of C. P is sitting second to the left of C. T is sitting exactly between R and P. Which toddler is sitting at the immediate left of E?

- Ans**
- ✗ 1. C
 - ✓ 2. F
 - ✗ 3. U
 - ✗ 4. D

Question ID : 630680197531

Status : Answered

Chosen Option : 2

Q.4 If '+' means 'division', '-' means 'addition', '×' means 'subtraction' and '÷' means 'multiplication', what will be the value of the following expression?

$$[[(17 \times 12) - (3 \div 3)] + (3 - 4)] \div 5$$

- Ans**
- ✓ 1. 10
 - ✗ 2. 5
 - ✗ 3. 1
 - ✗ 4. 15

Question ID : 630680197539

Status : Answered

Chosen Option : 1

Q.5 Select the correct mirror image of the given figure when the mirror is placed at the right side.



Ans

✓ 1.



✗ 2.



✗ 3.



✗ 4.



Question ID : 630680197537
Status : Answered
Chosen Option : 1

Q.6 Select the number from among the given options that can replace the question mark (?) in the following series.

15, 22, 31, 42, 55, ?

Ans ✗ 1. 68

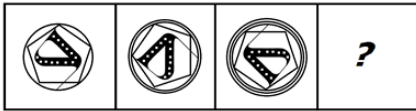
✓ 2. 70

✗ 3. 71

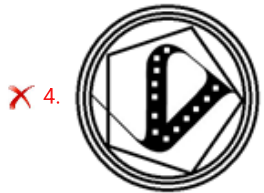
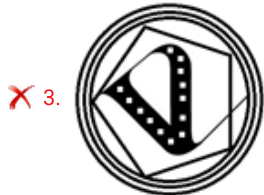
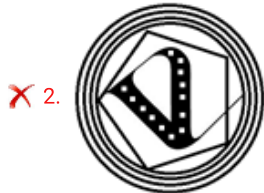
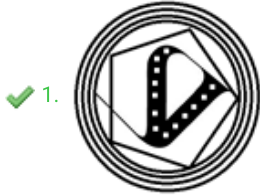
✗ 4. 72

Question ID : 630680197538
Status : Answered
Chosen Option : 1

Q.7 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans



Question ID : 630680197536

Status : Answered

Chosen Option : 1

Q.8 Select the option that is related to the third term in the same way as the second term is related to the first term.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

GREECE : ATHENS :: NORWAY : ?

Ans ✓ 1. OSLO

✗ 2. TOKYO

✗ 3. MADRID

✗ 4. NAIROBI

Question ID : 630680197535

Status : Answered

Chosen Option : 1

Q.9 In a certain code language, 'PENCIL' is coded as 'NKEPGR' and 'ERASER' is coded as 'TGUCTG'. How will 'CUTTER' be coded in that language?

- Ans**
- 1. TGVVXF
 - 2. EWVVG T
 - 3. EWVWGT
 - 4. TGVVWE

Question ID : 630680197533
Status : Answered
Chosen Option : 4

Q.10 Select correct combination of mathematical signs that can sequentially replace the % signs and balance the given equation.

$35 \% 15 \% 16 \% 4 \% 3 \% 5 \% 9$

- Ans**
- 1. -, +, ÷, =, ×, +
 - 2. -, +, ×, =, ÷, +
 - 3. -, +, ÷, ×, =, +
 - 4. +, -, ÷, ×, =, +

Question ID : 630680197540
Status : Answered
Chosen Option : 1

Section : Quantitative Aptitude

Q.1 The manufacturer of a certain item can sell all he can produce at the selling price of ₹80 each. It costs him ₹60 in materials and labour to produce each item and he has overhead expenses of ₹5,000 per week in order to operate the plant. The number of units he should produce and sell in order to make a profit of at least ₹15,000 per week is:

- Ans**
- 1. 1050
 - 2. 1000
 - 3. 1100
 - 4. 1150

Question ID : 630680197546
Status : Not Answered
Chosen Option : -

Q.2 A car travels the first one-fourth distance at a speed 40 km/h, the second one-fourth distance at a speed of 50 km/h, the third one-fourth distance at a speed of 60 km/h and the last one-fourth distance at a speed of 70 km/h. The average speed (in km/h) of the car for the whole journey is (correct to two decimal places):

- Ans**
- 1. 52.66
 - 2. 55.32
 - 3. 53.12
 - 4. 54.33

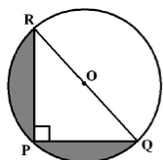
Question ID : 630680197547
Status : Answered
Chosen Option : 1

Q.3 $(9)^{3/2} \div (8)^{-2/3} + 3 \div 10 \times 2$ is equal to:

- Ans
- 1. 109.6
 - 2. 107.6
 - 3. 108.6
 - 4. 106.6

Question ID : 630680197541
Status : Answered
Chosen Option : 3

Q.4 What is the area (in cm^2) of the shaded region in the given figure, if $PR = 35$ cm, $PQ = 12$ cm and O is the centre of the circle (use $\pi = 3.14$)?



- Ans
- 1. 330.0125
 - 2. 327.3325
 - 3. 329.1725
 - 4. 328.4525

Question ID : 630680197549
Status : Answered
Chosen Option : 2

Q.5 Greeshma bought 10 kg pasta for ₹50 per kg, x kg pasta for ₹60 per kg and $(x - 3)$ kg pasta for ₹65 per kg. She mixed all the types of pasta together and the average cost price of 1 kg pasta was ₹57.20. What is the quantity of pasta (in kg) that was bought at ₹65 per kg?

- Ans
- 1. 7
 - 2. 9
 - 3. 8
 - 4. 6

Question ID : 630680197544
Status : Not Answered
Chosen Option : -

Q.6 If A and B can complete a piece of work in 40 days, B and C can complete it in 60 days, A and C can complete it in 50 days. In how many days can B alone complete it (correct to one decimal place)?

- Ans
- 1. 90.4
 - 2. 85.6
 - 3. 92.3
 - 4. 75 .5

Question ID : 630680197548
Status : Not Answered
Chosen Option : -

Q.7 The average of the first 15 multiples of 15 is:

- Ans
- 1. 130
 - 2. 120
 - 3. 110
 - 4. 140

Question ID : 630680197543
Status : Answered
Chosen Option : 2

Q.8 The expenditure of a person is 70% of his income. His income increased by 12% and he increased his expenditure by 7.5%. What is the percentage increase in his savings?

- Ans
- 1. 22.5%
 - 2. 23.5%
 - 3. 24.5%
 - 4. 21.5%

Question ID : 630680197545
Status : Answered
Chosen Option : 1

Q.9 Convert $0.\overline{344} + 0.\overline{453} - 0.\overline{68}$ into a vulgar fraction.

- Ans
- 1. $\frac{13}{55}$
 - 2. $\frac{12}{55}$
 - 3. $\frac{6}{55}$
 - 4. $\frac{9}{55}$

Question ID : 630680197542
Status : Not Answered
Chosen Option : -

Q.10 The base area of a cone is 186.34 cm^2 . If the height of the cone is nine-sevenths of its radius, then its volume (in cm^3) is:

- Ans
- 1. 611.657
 - 2. 612.754
 - 3. 614.922
 - 4. 613.841

Question ID : 630680197550
Status : Answered
Chosen Option : 2

Q.1 Who is the author of a unique Buddhist text, which is a section of the Sutta Pitaka and is a compilation of verses that shed light on women's social and spiritual experiences?

- Ans
- 1. Devta
 - 2. Brahman
 - 3. Varundata
 - 4. Bhikkhunis

Question ID : 630680197553
Status : Answered
Chosen Option : 2

Q.2 Who has been appointed as the Vice Chief of Air Staff as of February 2023?

- Ans
- 1. Air Marshal AP Singh
 - 2. Air Vice Marshal Satyendra Jaytee
 - 3. Air Marshal BK Khanna
 - 4. Air Marshal Deshmukh SK

Question ID : 630680197551
Status : Answered
Chosen Option : 1

Q.3 Who was the chairperson of Second Backward Classes Commission that was assigned by the government in 1979?

- Ans
- 1. BP Mandal
 - 2. CP Mandal
 - 3. Rajashekharan Reddy
 - 4. Jayakishore Akrudi

Question ID : 630680197559
Status : Answered
Chosen Option : 3

Q.4 In the context of demonetisation by the Government of India in November 2016, till which date were old currency notes acceptable as legal tender at petrol pumps, government hospitals and payment of government dues, like taxes, power bills?

- Ans
- 1. 31st March 2017
 - 2. 1st December 2016
 - 3. 12th December 2016
 - 4. 31st December 2016

Question ID : 630680197555
Status : Answered
Chosen Option : 1

Q.5 Certain goods like national defence, roads and government administration are referred to as _____.

- Ans
- 1. private goods
 - 2. foreign goods
 - 3. public goods
 - 4. stored goods

Question ID : 630680197554
Status : Answered
Chosen Option : 3

Q.6 'Pullela Gopichand', an Indian sportsperson, belongs to which game?

- Ans
- 1. Football
 - 2. Basketball
 - 3. Badminton
 - 4. Athletics

Question ID : 630680197560
Status : Answered
Chosen Option : 1

Q.7 Which Article of the Constitution explicitly clarifies that a policy like reservation will NOT be seen as a violation of right to equality?

- Ans
- 1. Article 12
 - 2. Article 16 [4]
 - 3. Article 22 [2]
 - 4. Article 17

Question ID : 630680197558
Status : Not Answered
Chosen Option : -

Q.8 On the basis of the presence of major pigments, the algae are mainly divided into three classes, which are green algae, brown algae and _____.

- Ans
- 1. grey algae
 - 2. black algae
 - 3. white algae
 - 4. red algae

Question ID : 630680197557
Status : Answered
Chosen Option : 1

Q.9 According to Koeppen climate types, which group has the characteristics of winter dry season, no dry season and monsoonal, short dry season with letter codes Aw, Af and Am, respectively?

- Ans
- 1. Cold Climates
 - 2. Cold Snow-forest Climates
 - 3. Dry Climate
 - 4. Tropical Humid Climate

Question ID : 630680197556
Status : Answered
Chosen Option : 4

Q.10 From which year is each district having a criminal court and a civil court in the system of justice, which was established in the new administration formation?

- Ans
- 1. 1771
 - 2. 1773
 - 3. 1770
 - 4. 1772

Question ID : 630680197552
Status : Not Answered
Chosen Option : -

Section : English Language

Q.1 Select the most appropriate meaning of the given idiom.

To flog a dead horse

- Ans
- 1. To waste energy on a lost cause
 - 2. To undertake a foolish activity
 - 3. To exhibit one's anger on something
 - 4. To beat a horse and cause it to die

Question ID : 630680197566
Status : Answered
Chosen Option : 1

Q.2 Select the most appropriate synonym of the word given in brackets to fill in the blank.

He returned from America when he heard that his father was _____ (indisposed) and wanted to see him.

- Ans
- 1. merry
 - 2. willing
 - 3. healthy
 - 4. ailing

Question ID : 630680197563
Status : Answered
Chosen Option : 3

Q.3 The following sentence has been divided into parts. One of them may contain a spelling error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The octogenarian king / passed on the mantle of athaority / to his eldest son.

- Ans 1. passed on the mantle of athaority
 2. No error
 3. to his eldest son
 4. The octogenarian king

Question ID : 630680197564
Status : Answered
Chosen Option : 1

Q.4 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A. So Magpie got them all together and began to show them how to do it.
B. "Ah ha!" said Thrush, and away she flew; so Thrush still builds her nest out of mud.
C. Long ago, all the birds came to Magpie and asked her to teach them how to build nests.
D. First, she took some mud and patted it into the shape of a pancake.

- Ans 1. BDCA
 2. CADB
 3. CBAD
 4. ACDB

Question ID : 630680197567
Status : Answered
Chosen Option : 1

Q.5 Select the most appropriate option to fill in the blank.

Avika helped her sister _____ a cardboard house for her school project.

- Ans 1. makes
 2. has made
 3. make
 4. made

Question ID : 630680197562
Status : Answered
Chosen Option : 4

Q.6 Select the most appropriate option to fill in the blank

They went to Ramnagar _____ boat and stayed there for the weekend.

- Ans 1. from
 2. with
 3. in
 4. by

Question ID : 630680197561
Status : Answered
Chosen Option : 4

Q.7 Select the most appropriate meaning of the given idiom.

Nip in the bud

- Ans
- 1. Hide a secret
 - 2. Punish the opposition
 - 3. Suppress something at an early stage
 - 4. Fight with someone younger

Question ID : 630680197565

Status : Not Answered

Chosen Option : -

Comprehension:

Read the given passage and answer the questions that follow.

When the first episode of 'Homicide: Life on the Street' aired on US network NBC on 31st January 1993, the crime drama looked like very little on TV at the time. The series was based on David Simon's book 'Homicide: A Year on the Killing Streets', which documented his time spent with the homicide unit of Baltimore Police Department; Simon would go on to create The Wire, still regarded as one of the best TV dramas ever made, but having started his career as a reporter, he made his name with this vividly written account of his time shadowing a shift of homicide detectives in 1988 as they investigated murders. As with his book, the show captured the day-to-day reality and often grim humour of a group of people whose job puts them in regular proximity with death.

Homicide strove to be authentic. It was shot on location in Baltimore and the city, its harbour, rowhouses and corners would become an integral part of the show. The detectives in Simon's book were on-hand to provide advice. "We learned a lot from those fellows," says Melissa Leo, who played detective Kay Howard, and would later win an Oscar for her role in David O'Russell's The Fighter. Early on Simon took the cast to visit various drug hangouts around the city, recalls Kyle Secor, who played rookie detective Tim Bayliss. Even the filing cabinets in the squad room were filled with old police reports. The police department was being computerized, so the set designer was able to acquire them.

SubQuestion No : 8

Q.8 Who played the role of Kay Howard in Homicide?

- Ans
- 1. Kyle Secor
 - 2. Melissa Leo
 - 3. David O'Russell
 - 4. Tim Bayliss

Question ID : 630680197570

Status : Not Answered

Chosen Option : -

Comprehension:

Read the given passage and answer the questions that follow.

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SubQuestion No : 9

Q.9 Which statement is NOT true according to the passage?

- Ans 1. The locations of the TV series Homicide were all real locations in The city of Baltimore.
2. The crime drama dominated the American TV before the Homicide was aired.
3. The real detectives were there to advise the actors when the TV series was being shot.
4. The cabinets in the squad room shown in the TV series had real police reports.

Question ID : 630680197571

Status : Not Answered

Chosen Option : -

Comprehension:

Read the given passage and answer the questions that follow.

When the first episode of 'Homicide: Life on the Street' aired on US network NBC on 31st January 1993, the crime drama looked like very little on TV at the time. The series was based on David Simon's book 'Homicide: A Year on the Killing Streets', which documented his time spent with the homicide unit of Baltimore Police Department; Simon would go on to create The Wire, still regarded as one of the best TV dramas ever made, but having started his career as a reporter, he made his name with this vividly written account of his time shadowing a shift of homicide detectives in 1988 as they investigated murders. As with his book, the show captured the day-to-day reality and often grim humour of a group of people whose job puts them in regular proximity with death.

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SubQuestion No : 10

Q.10 The passage is mainly about:

- Ans**
- 1. The Wire – the best TV drama
 - 2. David Simon, the author
 - 3. the book 'Homicide: A Year on the Killing Streets'
 - 4. the TV show 'Homicide: Life on the Street'

Question ID : 630680197569

Status : Not Answered

Chosen Option : –