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Section : General Awareness

Q.1 In which year did Sirajuddaulah become the nawab of Bengal after Alivardi Khan's death?

Ans X A. 1755

X B. 1757

X C. 1754

D. 1756

Question ID: 1034358804





Q.2	RBI publishes figures for four alternative measures of money supply, viz. M1, M2, M3 and M4. Which of the aforementioned has the definition as sum of currency (notes plus coins) held by the public and net demand deposits held by commercial banks?
Ans	X A. M3
	★ B. M2
	X C. M4
	✓ D. M1
	Question ID : 1034358794 Status : Answered
Q.3	Which of the following statements is INCORRECT about Mahatma Gandhi?
Ans	X A. He returned to India in January 1915 from South Africa.
	B. He was born in Porbandar on 2 October 1869.
	C. He organised a satyagraha to support the peasants of the Kheda district in 1917.
	D. He was elected as the president of Indian National Congress in 1927.
	Question ID : 1034358805 Status : Answered
Q.4	Who is the winner of the Australian Open 2022 Men's singles event?
Ans	X A. Daniil Medvedev
	X B. Novak Djokovic
	✓ C. Rafael Nadal
	X D. Roger Federer
	Question ID : 1034358816





Q.5 Ins	Bread mould, also known as aspergillus, is an example of: A. protozoa	
	X B. bacteria	
	X C. algae	
	✓ D. fungi	
		Question ID : 1034358796 Status : Answered
Q.6	Mauryan Empire was divided into four provinces. Which of the following of the Mauryan provinces?	ing was NOT one
Ans	X A. Suvarnagiri	
	X C. Ujjayini	
	X D. Tosali	
		Question ID : 1034358802 Status : Answered
Q.7	Which article of the Constitution of India is related to exemption from electricity?	taxes on
Ans	✓ A. Article 287	
	X B. Article 278	
	X C. Article 257	
	X D. Article 275	
		Question ID : 1034358810 Status : Answered





2.8	In India, who appoints the Special Officer for linguistic minorities according to Al 350B of the Constitution of India?	ticle
Ans	A. Prime Minister	
	X B. Union Minister for Minority Affairs	
	✓ C. President	
	X D. Vice President	
		Question ID : 1034358812 Status : Answered
Q.9 Ans	•	
	X C. Indian Ocean	
	X D. Arctic Ocean	
		Question ID : 1034358800 Status : Answered
Q.10	0 What is the minimum support price of gram per quintal in 2021-22?	
Ans	s X A. ₹5,454	
	X B. ₹4,997	
	X C. ₹5,400	
	✓ D. ₹5,100	
		Question ID : 1034358792 Status : Answered





Q.11	Which of the following is the most important festival of Kamakhya temple of Guwahati and is held every year during monsoon (mid-June)?
Ans	✓ A. Ambubachi fair
	X B. Hornbill festival
	X C. Pushkar fair
	X D. Torgya festival
	Question ID : 1034358790 Status : Answered
Q.12	In February2022, who defeated the reigning world champion Magnus Carlsen during the online tournament Airthings Masters?
Ans	X A. Abhijeet Gupta
	X B. Dommaraju Gukesh
	X C. Bharath Subramaniyam
	✓ D. Rameshbabu Praggnanandhaa
	Question ID : 1034358817 Status : Answered
Q.13	Which of the following teams was the winner of the Maulana Abul Kalam Azad Trophy 2021?
Ans	X A. Delhi University
	X B. Bombay University
	C. Punjab University
	X D. Guru Nanak Dev University
	Question ID : 1034358814 Status : Answered





Q.14 Ans	Who became the first Indian fencer to qualify for the Oly A. Kabit Devi	ympics?
AIIO	X B. Anoushka Dhaliwal	
	✓ C. Bhavani Devi	
	X D. Dabhade Khushi	
	N D. Dabilade Midsill	
		Question ID : 1034358815
		Status : Answered
	According to the economic survey 2021-22 what was th suggestion of GDP 2021-22?	ne first advance estimates
Ans	✓ A. 9.2%	
	X B. 6.8%	
	X C. 10.98%	
	X D. 7.4%	
		Question ID : 1034358793 Status : Answered
		Cidido . Allonorda
_		
	For how many years was Sawai Jai Singh, the ruler of A governor of Agra?	Amber, appointed as the
Ans	✓ A. 12 years	
	X B. 10 years	
	X C. 8 years	
	X D. 5 years	
		Question ID : 1034358803
		Status : Answered





Q.17	Which of the following rivers has its origin in Madhya Prades finally falls into the Arabian Sea?	sh, flows in Rajasthan and
Ans		
	X B. Yamuna	
	X C. Chambal	
	X D. Banas	
		Question ID : 1034358799
		Status : Answered
Q.18	Which of the following musical instruments is NOT an example Vadya' instruments?	ple of the 'Avanaddha
Ans		
	✓ B. Chikara	
	X C. Tasa	
	X D. Dagar	
		Question ID : 1034358789
		Status : Answered
Q.19	Who has been elected to the International Law Commission starting from 1 January 2023?	for a five-year term
Ans	X A. Arun Mishra	
	X B. Dinesh Sharma	
	X C. Naveen Mahajan	
	✓ D. Bimal Patel	
		Question ID : 1034358806
		Status : Answered





Q.20	Which schedule of the Constitution of India has provisions made for the administration of tribal areas in the States of Assam, Meghalaya, Tripura and Mizoram?
Ans	✓ A. Sixth schedule
	X B. Forth schedule
	X C. Fifth schedule
	X D. Third schedule
	Question ID : 1034358813 Status : Answered
Q.21	In which state is Deekshabhoomi, where Dr. Ambedkar converted to Buddhism, situated?
Ans	X A. Gujarat
	X B. Karnataka
	✓ C. Maharashtra
	X D. Kerala
	Question ID : 1034358791
	Status : Answered
Q.22	Who has authored a new book titled 'India vs UK: The Story of an Unprecedented Diplomatic Win'?
Ans	✓ A. Syed Akbaruddin
	X B. Kailash Satyarthi
	X C. Abhijit Banerjee
	X D. Maroof Raza
	Question ID : 1034358809 Status : Answered





2.23	By which of the following Amendment Acts was the word 'Rajpramukh' omitted from Article 283 of the Constitution of India?
Ans	X A. Constitution (Forty-fourth Amendment) Act, 1978
	X B. Constitution (Fifteenth Amendment) Act, 1963
	C. Constitution (Fortieth Amendment) Act, 1976
	✓ D. Constitution (Seventh Amendment) Act, 1956
	Question ID : 1034358811 Status : Answered
).24	According to Census 2011, which of the following Indian metro cities is the least populated?
Ans	X A. Delhi
	X B. Mumbai
	C. Kolkata
	D. Chennai
	Question ID : 1034358798 Status : Answered
	helps our nails grow strong and resilient.
Ans	✓ A. Protein
	X B. Fruits
	X C. Fibre
	X D. Fat
	Question ID : 1034358797 Status : Answered





	Which NGO was awarded the Indira Gandhi Peace Priexpanding the scope for education in India?	ze 2021 for its work on
Ans	✓ A. PRATHAM	
	X B. DARPAN	
	X C. SMILE	
	X D. MASRRAT	
		Question ID : 1034358808 Status : Answered
	Maharashtra and Andhra Pradesh? A. Black soil	
Ans		
	X B. Laterite soils	
	C. Alluvial soils	
	X D. Arid soils	
		Question ID : 1034358801
		Status : Answered
	Which of the following statements is INCORRECT abordantities?	out the scalar and vector
Ans	X A. Temperature is a scalar quantity.	
	B. Acceleration is a vector quantity.	
	C. Polarisation is a vector quantity.	
	✓ D. Force is a scalar quantity.	
		Question ID : 1034358795
		Status : Answered





	Which of the following dances is performed by members of the Adi tribe of Arunachal Pradesh?
Ans	X A. Dhanger
	✓ B. Tapu
	X C. Bhagoria
	X D. Santhali
	Question ID : 1034358788 Status : Answered
	Status : Alisweitu
_	
	For which book did Damon Galgut win the Booker Prize for 2021?
Ans	X A. A Passage North
	X B. Bewilderment
	✓ C. The Promise
	X D. Great Circle
	Question ID : 4024259907
	Question ID : 1034358807 Status : Answered
Sectio	n : Reasoning
Q.1	If a clock strikes 12:45 and its minute hand points to the north, then at 1:15 where does the minute hand point to?
Ans	✓ A. South
	X B. East
	X C. South-east
	X D. West
	Question ID : 1034358841
	Status : Answered





Q.2 Consider the given statement and decide which of the given assumptions is/are implicit in the statement.

Statement:

"If you are a chemical engineer, we want you as our production manager." — an advertisement by pharmacy company Y.

Assumptions:

- I. Chemical engineers are expected to be better performers by pharmacy company Y.
- II. Pharmacy company Y needs production managers.

Ans X A. Both assumptions I and II are implicit

X B. Only assumption I is implicit

C. Only assumption II is implicit

X D. Either assumption I or II is implicit

Question ID: 1034358833

Status: Answered

Q.3 Six persons Prudvi, Viplav, Ravali, Sitara, Taman and Udit have different heights.

Taman is shorter than Ravali. Sitara is taller than two persons. Prudvi is shorter than Viplav, but taller than Ravali. Udit is taller than only Viplav.

Who is the third tallest?

Ans

X A. Ravali

B. Prudvi

X C. Viplav

X D. Taman

da 247

Question ID: 1034358829





- Q.4 Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
 - 1. Enlightening
 - 2. Ensure
 - 3. Eighteen
 - 4. Enormous
 - 5. English

Ans X A. 3, 5, 4, 2, 1

⊘ B. 3, 5, 1, 4, 2

X C. 3, 1, 5, 2, 4

X D. 3, 4, 5, 1, 2

Question ID: 1034358820

Status: Answered

Q.5 Study the given pattern carefully and select the number from among the given options that can replace the question mark (?) in it.

38	7
38	5
?	15

Ans

✓ A. 87

X B. 38

X C. 83

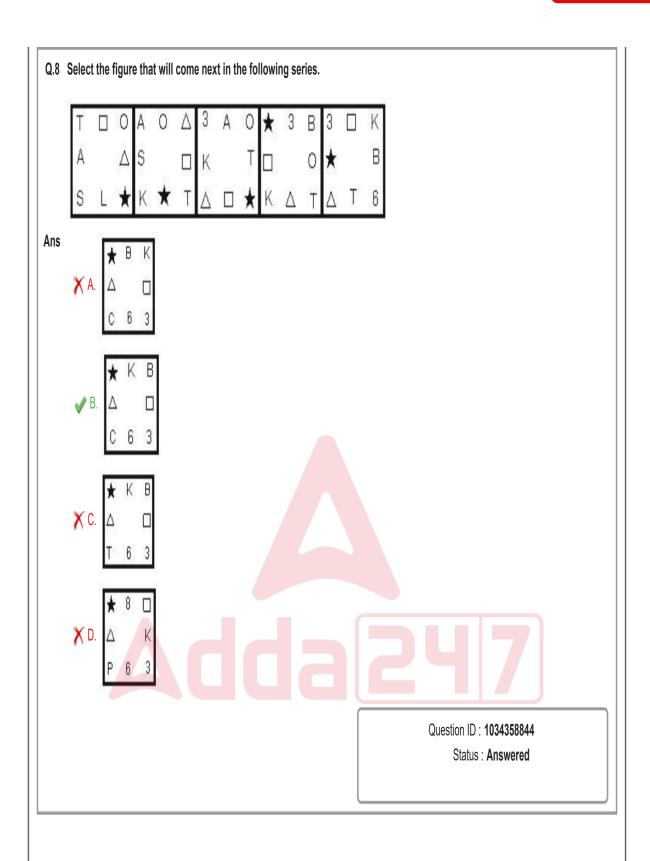
X D. 78

Question ID: 1034358838



Q.6 Study the given figure and answer the questions that follow. Australians → Cricketers → Graduates How many Australians are neither graduates nor Cricketers? Ans X A. 5 X B. 3 X C. 11 **✓** D. 17 Question ID: 1034358840 Status: Answered Q.7 Select the letter-cluster from among the given options that can replace the question mark (?) in the following series. SAMU, VWJY, YSGC, BODG, EKAK, ? X A. HXFN X C. HFXN X D. HXGO Question ID: 1034358818 Status: Answered







Q.9 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All teachers are artists.

Some magicians are artists.

Conclusions:

- (I) All teachers are magicians.
- (II) Some magicians are teachers.

Ans X A. Only conclusion II follows

X B. Only conclusion I follows

X C. Either conclusion I or II follows

✓ D. Neither conclusion I nor II follows

Question ID: 1034358832

Status: Answered

Q.10 In a certain code language, 'SPACE' is coded as '8114248'. How will 'LOGIC' be coded in that language?

Ans X A. 1212151216

X B. 1581201224

X C. 1215124526

✓ D. 1518201224

Question ID: 1034358828





Q.11 Identify the letter-cluster that does NOT belong to the following series. STOP, VWKJ, YZGD, BCCY, EFYR, HIUL

Ans X A. HIUL

X C. YZGD

X D. EFYR

Question ID: 1034358819

Status: Answered

Q.12 Select the correct mirror image of the given combination when the mirror is placed at PQ as shown.

TECHNICAL

TECHINCAL AX

TECHNICAL BV

xc TECHINCAL

XD TECHNICAL

Question ID: 1034358847



	Select the option that is related to the third letter-cluster in the se second letter-cluster is related to the first letter-cluster. MTSQ: OZMS:: LDKR:?	ame way as the
Ans	✓ A. NJET	
	X B. IQYO	
	X C. NYQT	
	X D. IEJO	
		Question ID : 1034358824
		Status : Answered
	Four letter-clusters pairs have been given, out of which three are and one is different. Select the letter-cluster pair that is different. A. MOST: PLVR	
	X B. SENT : VBQQ	
	X C RUAD : III DA	
	X C. ROAD : ULDA	
	X C. ROAD : ULDA X D. MAIN : PXLK	
		Question ID : 1034358822
		Question ID : 1034358822 Status : Answered
0.15	X D. MAIN: PXLK	Status : Answered
		Status : Answered
	Identify the number that does NOT belong to the following series 3, 7, 13, 28, 77, 279	Status : Answered
	Identify the number that does NOT belong to the following series 3, 7, 13, 28, 77, 279	Status : Answered
	Identify the number that does NOT belong to the following series 3, 7, 13, 28, 77, 279	Status : Answered
	Identify the number that does NOT belong to the following series 3, 7, 13, 28, 77, 279 A. 28 B. 77	Status : Answered
	Identify the number that does NOT belong to the following series 3, 7, 13, 28, 77, 279 X A. 28 X B. 77 X C. 13	Status : Answered





Q.16 Select the option in which the words share the same relationship as that shared by the given pair of words.

Brazil: Real

Ans X A. Mongolia : Euro

X B. Israel: Yen

X C. Russia: Peso

D. Malaysia : Ringgit

Question ID: 1034358826

Status: Answered

Q.17 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

No trainer is a carpenter.

All carpenters are businessmen.

Conclusions:

I. No trainer is a businessman.

II. No businessman is a trainer.

III. Some businessmen are carpenters.

IV. All businessmen are carpenters.

Ans

A. Only conclusion III follows

X B. Only conclusion I follows

X C. Only conclusions I and II follow

X D. Only conclusions I and IV follow

Question ID: 1034358834



Q.18 Sathwik left her hostel and walked 18 km southwards to reach the market, turned right and walked 9 km, then again turned right and walked 18 km, and then turned left and walked 18 km to reach the shopping mall. How many kilometres does she have to walk to reach her hostel straight from the final position?

Ans X A. 22 km

X B. 26 km

✓ C. 27 km

X D. 24 km

Question ID: 1034358842

Status: Answered

Q.19 Four number-triads have been given, out of which three are alike in some manner and one is different. Select the number-triad that is different.

Ans X A. (13, 49, 151)

X B. (5, 17, 55)

✓ C. (7, 25, 71)

X D. (12, 45, 139)

Question ID: 1034358837

Status: Answered

Q.20 Select the word-pair in which the two words share a different relationship from that shared by the two words in the rest of the word-pairs.

Ans X A. Despair: Hope

X B. Allure: Repulse

X C. Barrier : Assistance

✓ D. Consolidate : Strengthen

Question ID: 1034358823





Q.21 G, H, I, J, T, K and L are seven members of a family. G and H are a married couple. H is the daughter-in-law of L. J is the only son of I. T is the sister of J. K is the mother-inlaw of H. I is G's brother. How is K related to L?

A. Wife

X B. Sister

X C. Daughter

X D. Mother

Question ID: 1034358830

Q.22 Eight persons Pavan, Anupama, Ranjani, Sarayu, Tarak, Usha, Vinita and Yadu sit around a square table, in which four persons sit at the four corners, and four persons sit at the middle of the four sides (not necessarily in the same order). Each faces towards the centre. Three persons sit between Pavan and Tarak. Usha sits second to the left of Tarak. Sarayu sits to the immediate right of Anupama. Ranjani sits second to the left of Yadu. Pavan and Sarayu do not sit at the corners. Yadu is not a neighbour of Pavan.

How many persons sit between Vinita and Yadu, from any of the directions?

Ans XA.1

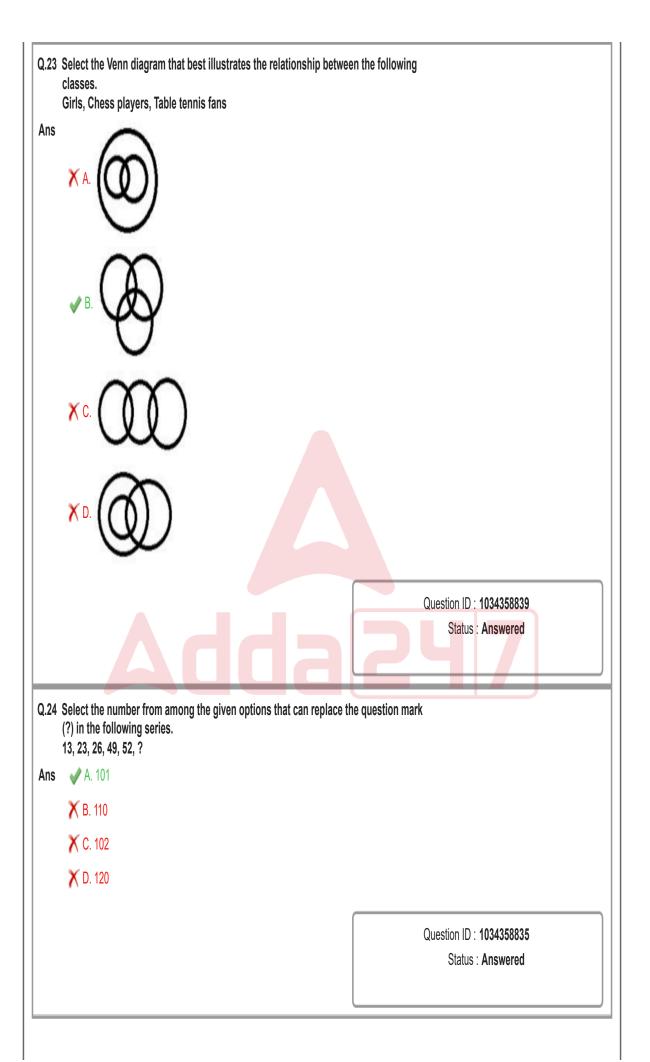
X B. 2

X C. 0

D. 3

Question ID: 1034358831 Status: Answered









Q.25 Select the option that is related to the third word in the same way as the second word is related to the first word.

Numismatics: Coins:: Orography:?

Ans X A. Eggs

B. Mountains

X C. Fossils

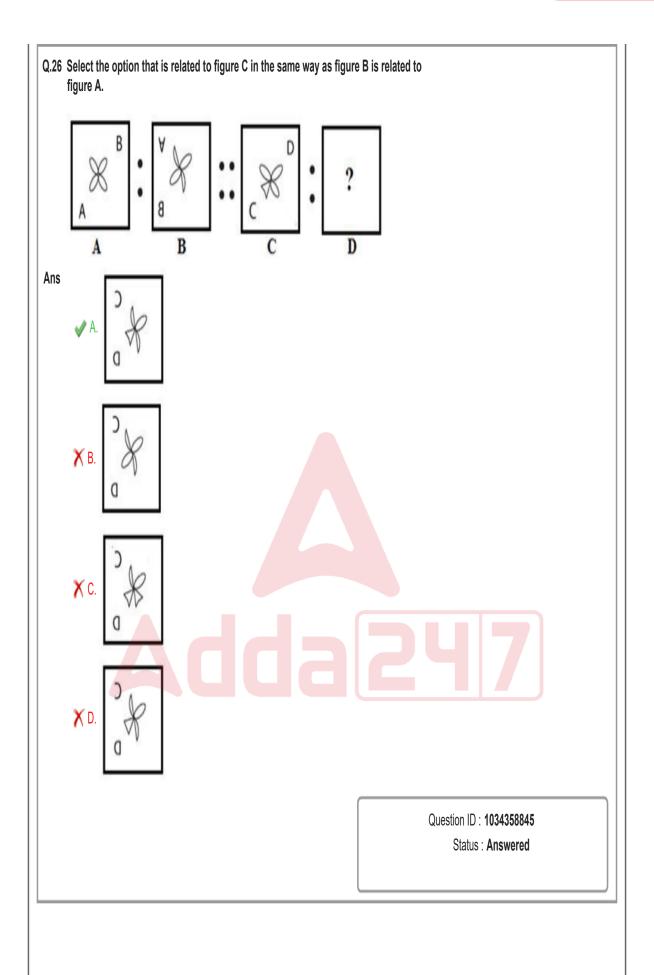
X D. Shells

Question ID: 1034358825

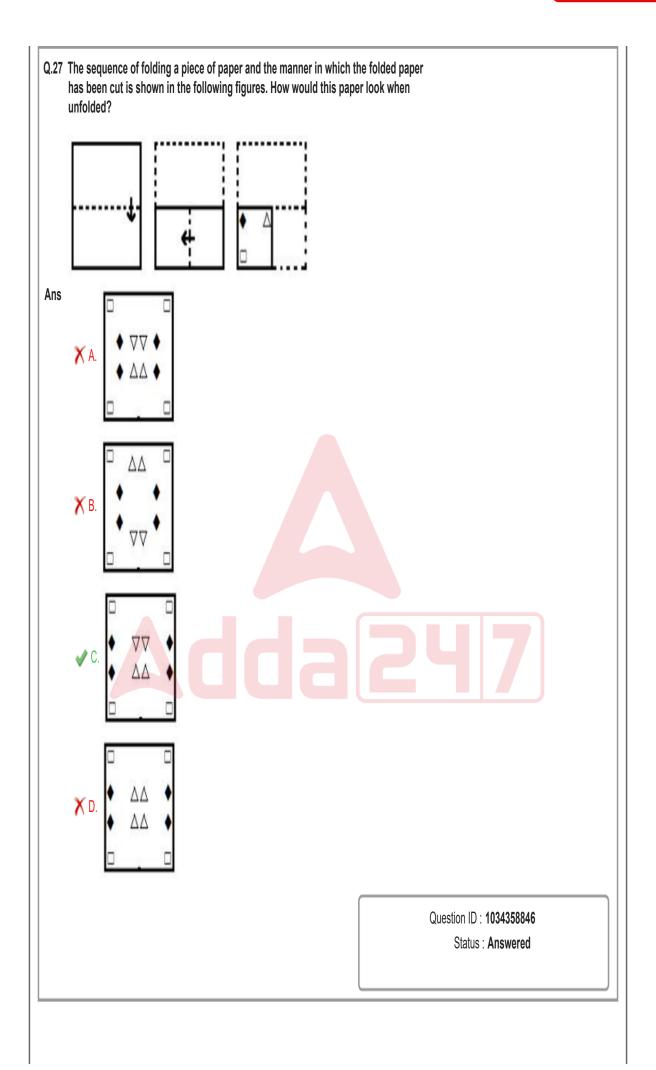
















Q.28 Aditya walked 50 m towards the north, then turned left and walked 68 m to reach the bus stand. He then turned to the south and walked 22 m, and then took a left turn and walked 44 m to reach the medical shop. After that he turned right and walked 18 m, and finally he turned left and walked 48 m to reach the library. What is shortest distance between the starting and the ending points, and in which direction is Aditya from the starting point?

Ans

A. 26 m, North-east

X B. 26 m, South-west

X C. 30 m, North-east

X D. 25 m, North-west

Question ID: 1034358843

Status: Answered

Q.29 Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.

Ans X A. Squeak

X B. Bark

C. Gallop

X D. Quack

Question ID: 1034358821

Status: Answered

Q.30 In a certain code language, 'CIRCLE' is written as 'DLWAHY'. How will 'SQUARE' be written in that language?

Ans X A. TNPYVY

B. TTZYNY

X C. TNZYVY

X D. TTPNKY

Question ID: 1034358827





Q.1	Steel is an alloy of:	
Ins	X A. carbon and manganese	
	X B. carbon and silicon	
	X C. iron and sulphur	
	D. iron and carbon	
		Question ID : 1034358877 Status : Answered
).2		
	A refrigerator has a coefficient of performance of 2. The refrigerated space is 60 kJ/min. What will be the electric compressor?	
	refrigerated space is 60 kJ/min. What will be the electric compressor?	
	refrigerated space is 60 kJ/min. What will be the electric compressor?	
	refrigerated space is 60 kJ/min. What will be the electric compressor? X A. 1 kW	
Ans	refrigerated space is 60 kJ/min. What will be the electric compressor? X A. 1 kW B. 0.5 kW	



Q.3	A certain amount of an ideal gas occupies a volume of 0.3 m ³ at a pressure of 2 bar and temperature of 450 K. The gas undergoes a thermodynamic constant-volume process until the pressure of the gas raises to 5 bar. What will be the temperature of the gas at the end of the process?			
Ans				
	X B. 1150 K			
	X C. 1100 K			
	X D. 1175 K			
	Question ID : 1034358870 Status : Answered			
	In case of, the colour of light is very near to that of natural light.			
Ans	X A. a neon-gas lamp X B. a sodium vapour lamp			
	C. a fluorescent lamp			
	D. an incandescent lamp			
	Question ID : 1034358866 Status : Answered			
Q.5	In a DC circuit, a 250 Ω resistor carries 40 mA current. Find the voltage drop across the resistor.			
Ans	X A. 1000 V			
	✓ B. 10 V			
	X C. 100 V			
	X D.1 V			
	Question ID : 1034358859 Status : Answered			



2.6	As per IS 10500 : 2012 (Drinking water specifications), t in water is	he acceptable limit of turbidity		
ns	X A. 15 NTU			
	✓ B. 1 NTU			
	X C. 5 NTU			
	X D. 10 NTU			
		Question ID: 1034358855 Status: Answered		
		Olalus : Allsweleu		
Q.7	In 5 kg of a liquid-vapour mixture, 4 kg is the mass of va What will be the dryness fraction of the liquid-vapour m			
Ans	X A. 0.2			
	X B. 1.0			
	✓ C. 0.8			
	X D. 0.4			
		Question ID : 1034358869		
		Status : Answered		
Q.8	As per IRC recommendations, the width of carriageway	per lane in a multilane		
Ans	pavements is			
	✓ B. 3.5 m			
	X C. 4.0 m			
	X D. 3.0 m			
	N 5.00 m			
		Question ID : 1034358854		
		Status : Answered		
		1		





Q.9 Identify whether the given statements with respect to sprinkler irrigation are correct or incorrect.

Statements:

- A) Sprinkler irrigation is more suitable than surface methods when the land has very pervious soil and undulated surface profile.
- B) Sprinkler irrigation is more suitable than surface methods when the land has steep slopes and easily erodible soil

Ans

- ✓ A. Both statements are correct
- X B. Statement B is correct and A is incorrect
- X C. Both statements are incorrect
- X D. Statement A is correct and B is incorrect

Question ID: 1034358853

Status: Answered

- Q.10 With reference to BJT, which of the following statements is true or FALSE?
 - 1. The emitter diode is always revere biased, wherea<mark>s the collector d</mark>iode is always forward biased.
 - 2. The emitter is heavily doped.

- Ans X A. 1. True 2. False
 - X B. 1. False 2. False
 - X C. 1. True 2.True
 - D. 1. False 2.True

Question ID: 1034358867





	In a chain surveying, the biggest of the main survey line is called	
Ans	•	
	X B. tie line	
	C. boundary line	
	X D. check line	
	Question ID + 40242E00E0	
	Question ID : 1034358850 Status : Answered	
_		
	As per IS 456 : 2000, which of the following is a classified type of reinforced cement concrete (RCC) slab?	
Ans	A. Three-way slab	
	X B. Five-way slab	
	✓ C. Two-way slab	
	X D. Four-way slab	
	Question ID : 1034358857	
	Status : Answered	
	A cyclic heat engine operates on a Carnot cycle between the Source and the Sink temperature of 600 K and 300 K, respectively. If the heat engine receives 400 kJ of heat from the Source, what will be the amount of the heat rejected to the Sink?	
Ans	x ★ A. 100 kJ	
	✓ B. 200 kJ	
	X C. 300 kJ	
	X D. 400 kJ	
	Question ID : 1034358871 Status : Answered	





Q.14 Which of the following is true?

Ans X A. When fluid passes through the nozzle, the pressure of the fluid increases while the velocity of the fluid decreases.

X B. When fluid passes through the nozzle, the pressure and velocity of the fluid remain

X C. When fluid passes through the nozzle, pressure as well as the velocity of the fluid decreases.

✓ D. When fluid passes through the nozzle, the pressure of the fluid decreases while the velocity of the fluid increases.

Question ID: 1034358874

Status: Answered

Q.15 Which of the following tariffs can be expressed by the expression z = a + by?

z = total tariff

a = tariff based on Maximum demand

by = tariff based on energy consumption.

Ans A. Hopkinson demand rate

X B. Flat demand rate

X C. Straight meter rate

X D. Doherty rate

Question ID: 1034358865

Status: Answered

Q.16 Which of the following soil components has particles with size in the range of 75 micron to 4.75 mm?

X A. Peat

X B. Gravel

C. Sand

X D. Silt

Question ID: 1034358851



	kinematic viscosity of 0.04 stokes?				
ns	✓ A. 1000 kg/m ³				
	X B. 100 kg/m ³				
	X C. 10,000 kg/m ³				
	X D. 500 kg/m ³				
	Question ID : 1034358875 Status : Answered				
	Identify whether the given statements with respect to viscosity of fluids are correct or incorrect. Statements: A) Viscosity of fluids is due to cohesion and interaction between fluid particles. B) An ideal fluid exhibits a greatest value of viscosity when compared to other real fluids.				
Ans	X A. Both statements are incorrect				
	X B. Both statements are correct				
	C. Statement B is correct and A is incorrect				
	Question ID : 1034358852 Status : Answered				
Q.19	Joules/Coulomb is the unit of				
ns	X A. power				
	X B. current				
	✓ C. electric potential				
	X D. work done				
	Question ID : 1034358858				





Q.20 Which of the following is true?

X A. Kaplan turbine is a tangential flow turbine.

X B. Kaplan turbine is an impulse turbine.

X C. Francis turbine is an impulse turbine.

D. Pelton wheel is a tangential flow turbine.

Question ID: 1034358876

Status: Answered

Q.21 A sinusoidal voltage is represented by the expression, $v(t) = 20 \sin \omega t$. What will be the peak to peak amplitude of the signal?

Ans X A. 20 V

X B. 37.37 V

✓ C. 40 V

X D. 28.28 V

Question ID: 1034358861

Status: Answered

Q.22 Which of the following is NOT a valid advantage of PMMC instruments?

Ans X A. High accuracy

X B. Uniform scale

C. Can be used for AC as well as DC measurements

X D. Low power consumption

Question ID: 1034358863



Q.23 Which of the following types of rock exhibits less crushing strength when compared to other mentioned type of rocks?

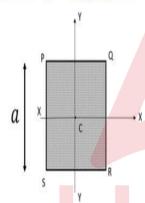
- Ans A. Laterite
 - X B. Trap
 - X C. Granite
 - X D. Gneiss

Question ID: 1034358848

Status: Answered

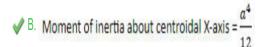
Q.24 What will be the moment of inertia (second moment of area) of a square lamina [PQRS] about its centroidal X-axis?

[X-X = Centroidal X-axis, Y-Y = Centroidal Y-axis, C=centroid of lamina, α = Side of square]



Ans

X A. Moment of inertia about centroidal X-axis =



- X C. Moment of inertia about centroidal X-axis =
- X D. Moment of inertia about centroidal X-axis =

Question ID: 1034358868





	In a magnetic circuit, is a measure of the opposition offered by the magnetic circuit to the establishment of magnetic flux.			
Ans				
	X B. magnetomotive force			
	X C. flux density			
	X D. permeance			
	Question ID : 1034358860 Status : Answered			
).26 Ans	For squirrel cage induction motors, which of the following statements is INCORRECT? X A. It has fixed rotor resistance.			
	X B. It has rugged construction.			
	X C. The rotor acts as a short circuited secondary of a transformer.			
	✓ D. Brushes are required for transferring the power.			
	Question ID : 1034358864 Status : Answered			
Q.27	Which of the following is correct for the ideal vapour-compression refrigeration cycle?			
Ans	X A. Constant-pressure heat rejection takes place in the compressor			
	B. Isentropic compression takes place in the compressor			
	X C. Throttling takes place in an evaporator			
	X D. Constant-pressure heat absorption takes place in the expansion valve			
	Question ID : 1034358873 Status : Answered			





18	X A. susceptance	
	X B. admittance	
	C. reactance	
	X D. resistance	
		Question ID : 1034358862
		Status : Answered
20.1	Albiah af the fallowing is an avenuels for grade of som	ant consusts?
i.29 i	Which of the following is an example for grade of cem A. CC304	ent concrete?
	X B. OPC 53	
	✓ C. M20	
	X D. Fe415	
	N D. 16410	
		Question ID : 1034358856
		Status : Answered
30 \	Which of the following is the correct unit of measurem	ent for the item of work 'earth
100	filling in foundation trenches'?	Cit for the felli of work cutti
ns	X A. Tonnes	
	✓ B. Cubic meter	
	X C. Square meter	
	X D. Loads	
		Question ID : 1034358849
		Status : Answered



Q.1 In which type of tachometric survey are the stadia hairs kept at a fixed interval and the staff interval or intercept (corresponding to the stadia hairs) on the levelling staff varies?

Ans X A. Tangential method

X B. Subtense bar method

X C. Movable-hair method

D. Fixed-hair method

Question ID: 1034358899

Status: Answered

Q.2 Read the following statements and select the correct option.

Statement-1: Tar is a dark viscous liquid produced by destructive distillation of

organic material such as coal, oil, lignite and wool.

Statement-2: Bitumen is a non-crystalline solid or viscous material derived from

petroleum, by natural or refinery processes.

Ans

A. Both statements are true

X B. Statement-1 is false and statement-2 is true

X C. Both statements are false

X D. Statement-1 is true and statement-2 is false

Question ID: 1034358880





 $\ensuremath{\text{Q.3}}$ Identify the type of retaining wall shown in the figure.



X A. Gravity wall

X B. Cantilever retaining wall

C. Counterfort retaining wall

X D. Semi gravity retaining wall

Question ID: 1034358973

Status: Answered

Q.4 When the sanctioned estimate is likely to be exceeded by more than 5% either from the insufficient fund or, price level, or whatever, other than structural alteration, then the estimate which is prepared is called:

X A. supplementary estimate

X B. unit rate estimate

X C. detailed estimate

D. revised estimate

Question ID: 1034358881



Q.5 The expression for crippling load (P) when both end of the column are hinged is given by:

Where I = actual length of column, E = Youngs Modulus of elasticity; I = Moment of Inertia

Ans

$$A$$
 $P = \frac{EI\pi^2}{4l^2}$

$$ightharpoonup$$
 B. $P = \frac{4EI\pi^2}{l^2}$

$$\nearrow$$
 C. $P = \frac{2EI\pi^2}{I^2}$

$$\checkmark D. P = \frac{EI\pi^2}{I^2}$$

Question ID: 1034358974

Status: Answered

Q.6 The recommended spacing of manholes for sewers having a diameter over 2.0 m on straight runs as per IS: 4111 (Part 1) – 1986 (Reaffirmed 2001) is:

Ans





X D. 50 m

da 24/7

Question ID : 1034358963





Q.7 Which of the following salient feature is NOT related to Kennedy's theory of alluvial channel design?

- **Ans** A. Silt factor is introduced
 - X B. Kennedy's theory does not give equation for bed slope
 - X C. The mean velocity is computed by Kutter's equation
 - X D. Critical velocity ratio is introduced

Question ID: 1034358939

Status: Answered

Q.8 Gross irrigated area is equal to:

Ans X A. net irrigated area in a year – area irrigated more than once in a season

X B. net irrigated area in a year + area irrigated more than once in a season

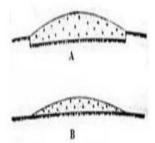
X C. net irrigated area in a year - area irrigated more than once in the same year

✓ D. net irrigated area in a year + area irrigated more than once in the same year

Question ID: 1034358933



Q.9 Two gravel road cross-sections are shown in Figures A and B. Identify the type of gravel road cross-sections.



✓ A. A-Trench type and B-Feather type Ans

X B. Bother are Trench type

X C. Both are Feather type

X D. A-Feather type and B-Trench type

Question ID: 1034358950

Status: Answered

is added to reclaim the land Q.10 When sodium carbonate is present in the soil, through the leaching process.

Ans X A. sodium sulphate

X B. iodine

X C. potassium

D. gypsum

Question ID: 1034358942





Q.11	What does the groundwater table signify?
Ans	X A. Aquitard
	X B. Aquifuge
	✓ C. Unconfined aquifer
	X D. Confined aquifer
	Question ID : 1034358908 Status : Answered
	Status : ///intrividu
Q.12	Arrange the following layers of flexible pavement in sequential order (from bottom to top).
	Surface course, Subgrade course, Subbase course, Base course
Ans	X A. Surface course, Subgrade course, Base course, Subbase course
	X B. Subbase course, Base course, Subgrade course, Surface course
	C. Subgrade course, Subbase course, Base course, Surface course
	X D. Base course, Subgrade course, Subbase course, Surface course
	Question ID : 1034358949 Status : Answered
	Otatus . Alistreted
_	
Q.13	The process of turning the telescope in a vertical plane through 180° about the trunnion axis is called:
Ans	X A. centring
	✓ B. transiting
	X C. swinging
	X D. levelling
	0 (10 10 10 10 10 10 10 10 10 10 10 10 10
	Question ID : 1034358896 Status : Answered
	Olalus . Alisweleu





Q.14 Select the demerit of the triaxial test from the following.

Ans X A. There is complete control over the drainage conditions, i.e., all three types of drainages.

X B. The stress distribution on the failure plane is uniform.

X C. The pore pressure changes and the volumetric changes can be measured directly.

◆ D. The apparatus is elaborate, costly and bulky as compared to other shear test equipment.

Question ID: 1034358914

Status: Answered

Q.15 What is the maximum permissible limit of chloride in the absence of an alternate source of drinking water as per IS 10500-2012?

Ans X A. 500 mg/l

X B. 250 mg/l

X C. 2000 mg/l

✓ D. 1000 mg/l

Question ID: 1034358958

Status: Answered

Q.16 Which of the following is the ruling principle of surveying?

Ans X A. Working from higher elevation to lower elevation

X B. Working from point to point

X C. Working from part to whole

D. Working from whole to part

Question ID: 1034358892





Q.17 The number of hectares of land irrigated for full growth of a given crop by a supply of 1 m³/s of water continuously during the entire base period (B) of that crop, is defined Ans X A. optimum water depth X B. kor depth X C. delta D. duty Question ID: 1034358931 Status: Answered Q.18 The open circular RCC water tank of diameter 5 m resting on firm ground with flexible base for 350 kilo litres capacity and height of the wall is 4 m. What is the hoop tension at the base of the wall? Take unit weight of water = 10kN/m³ **Ans** X A. 85 kN X C. 75 kN X D. 60 kN Question ID: 1034358986 Status: Answered



Q.19 The following statements are related to slump test. Select the correct option.

Statement 1: A slump cone measures 100 mm (top diameter), 200 mm (bottom diameter) and 350 mm height.

Statement 2: Slump test helps in qualitatively understanding the setting time of concrete.

Ans

A. Both statements are false

X B. Statement 1 is true and statement 2 is false

X C. Both statements are true

X D. Statement 1 is false and statement 2 is true

Question ID: 1034358977

Status: Answered

Q.20 What is the magnetic declination at a place if the magnetic bearing of the sun at noon

is 184⁰?

Ans \times A. 4 $^{\circ}$ N

X B. 4° E

✓ C. 4⁰ W

X D. 4° S

Question ID: 1034358894





Q.21 In a sudden enlargement of a pipe cross-section, if the velocity of flow at the inlet of pipe (V1) = 40 m/s,velocity of flow at the outlet of the pipe (V2) = 20 m/s and the acceleration due to

gravity is assumed to be 10 m/s², then the loss of head due to sudden enlargement of pipe is:

Ans X A. 15 m of water

B. 20 m of water

X C. 18 m of water

X D. 40 m of water

Question ID: 1034358922

Status: Answered

Q.22 What is the amount of water required per bag of cement (50 kg) for concrete mix proportion 1: 2: 4, if the water-cement ratio is 0.58?

Ans

√ A. 29 I

X B. 38 I

X C. 251

X D. 351

Question ID: 1034358883

Status: Answered

Q.23 As per IS 456: 2000, the design bond stress in limit state method for plain bars in tension for M20 concrete is:

Ans X A. 1.4 N/mm²

√ B. 1.2 N/mm²

X C. 1.7 N/mm²

X D. 1.9 N/mm²

Question ID: 1034358982



	The hydraulic mean depth of the circular sewer of the	diameter D is equal to:
Ans	✓ A. D/4	
	X B. D/2	
	X C. D/3	
	X D. D	
		Question ID : 1034358962
		Status : Answered
	Which of the following repair methods is used for sto basements, swimming pools?	pping leakages in dams,
Ans	X A. Plastering	
	✓ B. Injection	
	X C. Placing	
	X D. Sealant	
		Question ID : 1034358980 Status : Answered
		Status . Allsweieu
_		
	According to IS code 2470-1 <mark>963, the capacity of slud</mark> e 25°C.	ge digestion is equal to at
Ans	X A. 7.76 m ³ per 1000 persons	
	X B. 7.76 m ³ per 100 persons	
	✓ C. 3.3 m ³ per 100 persons	
	X D. 3.3 m ³ per 1000 persons	
		Question ID : 1034358885 Status : Answered
		Status . Allsweieu





Q.27 Ans	Which of the following statements about the runoff coefficient value is correct? X A. A larger value for sand and lower for clay
	 ✓ B. A larger value for areas with low infiltration and lower for high infiltration
	X C. A larger value for areas with pervious surface and lower for impervious surface
	X D. A larger value for areas with afforestation and lower for deforestation
	Question ID : 1034358928
	Status : Answered
_	
).28	Which of the following is NOT a type of flood control structure?
Ans	X A. Detention pond
	X B. Levees
	X C. Groins
	D. Subsurface barrier
	Question ID : 1034358941 Status : Answered
	Oldius . Alightica
_	
	'Blaine air permissibility test' is used to find the property of Portland cement.
Ans	X A. setting time
	→ B. fineness
	X C. soundness
	X D. strength
	Question ID : 1034358879
	Status : Answered



Q.30 If Q is the discharge through a rectangular notch, H is the head over the rectangular notch, then the error in discharge due to the error in measurement of head over a rectangular notch is given by:

$$\star$$
 A. $\frac{dH}{Q} = \frac{3dQ}{2H}$

$$\times$$
 B. $\frac{dQ}{Q} = \frac{5dH}{2H}$

$$\times$$
 C. $\frac{dQ}{2H} = \frac{3dH}{Q}$

$$\checkmark$$
 D. $\frac{dQ}{Q} = \frac{3dH}{2H}$

Question ID: 1034358923

Status: Answered

Q.31 What is the side slope of Cipolletti weir?

- Ans X A. 1 horizontal to 1 vertical
 - X B. 1 horizontal to 2 vertical
 - C. 1 horizontal to 4 vertical
 - X D. 1 horizontal to 3 vertical

Question ID: 1034358920





4.04	In flexible pavements, the is an applicatio to an absorbent surface like granular bases on which	
Ins	X A. intermediate coat	
	X B. seal coat	
	X C. track coat	
	→ D. prime coat	
		Question ID : 1034358951 Status : Answered
		Status . Aliswereu
_		
	The range of Manning's value for cement plastered	masonry lined canal is:
Ans	X A. 0.0018 – 0.0020	
	X B. 0.065 – 0.08	
	X C. 0.20 − 0.25	
	✓ D. 0.012 – 0.015	
		Question ID : 1034358937 Status : Answered
		otatus : Alismotou
_		
2.34	In a geometric design of a railway track, the maximule laid in a hilly area is called a:	um gradient to which the track may
Ans	X A. station yard gradient	
	X B. momentum gradient	
	X C. ruling gradient	
	D. pusher gradient	
	D. pusiter gradient	
		Question ID : 1034358954
		Status : Answered
		Status . Answereu





X B. 60% ✓ C. 70% X D. 80% Question ID: 1034358935 Status: Answered 36 In the design of steel structure, Purlins are NOT designed as: ns		2 cumec of water is pumped to farm distribution system 1.4 cum out, 0.9 km from the well. Compute the conveyance efficiency. X A. 50%	
Question ID: 1034358935 Status: Answered 36 In the design of steel structure, Purlins are NOT designed as: Ins A. cantilever beam B. continuous beam C. simple beam D. fixed beam Question ID: 1034358987 Status: Answered	10		
Question ID: 1034358935 Status: Answered 36 In the design of steel structure, Purlins are NOT designed as: ns			
Question ID: 1034358935 Status: Answered 36 In the design of steel structure, Purlins are NOT designed as: ns		•	
Status : Answered 36 In the design of steel structure, Purlins are NOT designed as: ns		V 0.00 %	
36 In the design of steel structure, Purlins are NOT designed as: ns			Question ID : 1034358935
X A. cantilever beam X B. continuous beam X C. simple beam ✓ D. fixed beam Question ID: 1034358987 Status: Answered			Status : Answered
X A. cantilever beam X B. continuous beam X C. simple beam ✓ D. fixed beam Question ID: 1034358987 Status: Answered			
X A. cantilever beam X B. continuous beam X C. simple beam D. fixed beam Question ID: 1034358987 Status: Answered	36	In the design of steel structure, Purlins are NOT designed as:	
C. simple beam D. fixed beam Question ID: 1034358987 Status: Answered			
Question ID : 1034358987 Status : Answered		X B. continuous beam	
Question ID : 1034358987 Status : Answered		X C. simple beam	
Status : Answered		D. fixed beam	
Status : Answered			
Adda 247			Status . Answered
	_		





Q.37 If B is the base period of a crop in days, and D is the duty of water in hectares, then the relationship between duty, delta (Δ) and the base period is given by:

$$\times$$
 A $B = \frac{8.64\Delta}{D}$ metres

$$✓$$
 B. $Δ = \frac{8.64B}{D}$ metres

$$\times$$
 c. $\Delta = \frac{864B}{D}$ metres

$$\times$$
 D. $\Delta = \frac{8.64D}{B}$ metres

Question ID: 1034358932

Status: Answered

Q.38 A specific gravity test is conducted to find the specific gravity of soil in the laboratory. The following data are obtained. Mass of empty jar = 0.498 kg, mass of jar with full of water = 1.7 kg, mass of oven dry soil sample = 0.2 kg, mass of oven dry soil with water in jar = 1.8 kg. What is the specific gravity of the soil sample?

X B. 1.00

X C. 2.73

X D. 2.24

Question ID: 1034358903





	Which of the following infiltration indexes represents the avera which the rainfall volume is equal to the runoff volume?	ge rate of rainfall above
Ans		
	√ B. Φ-index	
	X C. Aridity index	
	➤ D. W = index	
		Question ID : 1034358929 Status : Answered
Q.40	'Roundabout' is a road safety measure that reduces mainly:	
Ans	X A. traffic congestion only	
	X B. vehicle accident conflicts only	
	X C. pedestrian conflicts only	
	D. vehicle and pedestrian conflicts	
		Question ID : 1034358957
		011
		Status : Answered
		Status : Answered
Q.41	An arrangement of points and crossings with lead rails, by whi diverted from one track to another moving in the facing direction main function of:	ich trains may be
	diverted from one track to another moving in the facing direction main function of:	ich trains may be
	diverted from one track to another moving in the facing direction main function of:	ich trains may be
Q.41 Ans	diverted from one track to another moving in the facing direction main function of: X A. crossing	ich trains may be
	diverted from one track to another moving in the facing direction main function of: X A. crossing X B. stations	ich trains may be





Q.42 Read the following statements and select the correct option.

Statement 1: Sprinkler irrigation is suited to crops requiring frequent and larger

depths of irrigation during high winds and temperature.

Statement 2: Drip irrigation is suited to crops requiring frequent irrigation close to root during high winds and temperature.

✓ A. Statement 1 is incorrect and statement 2 is correct

X B. Both statements are incorrect

X C. Statement 1 is correct and statement 2 is incorrect

X D. Both statements are correct

Question ID: 1034358926

Status: Answered

Q.43 Which of following is NOT an advantage of irrigation?

X A. Increases food production

X B. Elimination of mixed cropping

C. Increases dampness and water borne diseases

X D. Increases groundwater recharge

Question ID: 1034358925

Status: Answered

Q.44 Which of the following equipment does NOT make use of the absorption process to control gaseous pollutants in industries?

X A. Venture scrubbers

X B. Packed columns

C. Incinerators

X D. Spray towers

Question ID: 1034358966





ns	X A. 2000 mg/l	
	X B. 1000 mg/l	
	✓ C. 500 mg/l	
	X D. 5000 mg/l	
		Question ID : 1034358976 Status : Answered
.46 ns	Which of the following is NOT a physical property of a building ma	aterial?
	X B. Specific weight	
	C. Elasticity	
	X D. Porosity	
.47 ns	The soil fertility of an irrigation command area can be achieved by ✓ A. crop rotation ✓ B. drainage ✓ C. irrigation ✓ D. groundwater recharge	Question ID : 1034358878 Status : Answered y:
		Question ID : 1034358943 Status : Answered CO



Q.48 Which of the following is NOT an electromagnetic distance measurement equipment? X A. Tellurometer X B. Geodimeter X C. Distomats D. Planimeter Question ID: 1034358900 Status: Answered Q.49 What is the volume of the trapezoidal footing in the given figure? Elevation 300 mm 2000 mm 2000 mm 1000 mm **Ans** X A. 1.15 cu. m X B. 1.25 cu. m ✓ C. 1.40 cu. m X D. 1.75 cu. m Question ID: 1034358888 Status: Answered





	Which type of fixture and fastenings are used i the rails?	n rail joints to maintain the continuity of		
Ans	X A. Keys			
	X B. Bearing plate			
	X C. Spikes			
	✓ D. Fish plate			
		Question ID : 1034358953 Status : Answered		
Q.51 Ans	Which of the following beams is a statically inc	determinate structure?		
	X B. One end of the beam is hinged and the other end is supported by a simple support			
	C. One end of the beam is hinged and the other end is supported by the roller support			
	X D. Cantilever beam			
		Question ID: 1034358971 Status: Answered		
		Status . Allsweleu		
Q.52	Which of the following is NOT a method of land irrigated command area?	d reclamation of salt-affected land in		
		d reclamation of salt-affected land in		
	irrigated command area?	d reclamation of salt-affected land in		
	irrigated command area? A. Surface drainage	d reclamation of salt-affected land in		
Q.52 Ans	irrigated command area? X A. Surface drainage X B. Sub-soiling	d reclamation of salt-affected land in		





Q.53	According to the world health organisation, what is the recommended audiometric sound values for moderate hearing impairment?	I range of the
Ans		
	X B. 61-80 dB	
	X C. 81 dB and above	
	✓ D. 41-60 dB	
		Question ID : 1034358969 Status : Answered
		otatus . Alismoieu
Q.54	The ratio of the power available at the shaft of the turbine to the power unner is defined as:	r delivered to the
Ans		
	X C. volumetric efficiency of turbine	
	X D. hydraulic efficiency of turbine	
		Question ID : 1034358924
		Status : Answered
	Which of the following is NOT the ill effect of irrigation?	
Ans		
	X B. Dampness	
	C. Increased groundwater level	
	X D. Soil salinisation	
		Occasion ID - 4024250040
		Question ID : 1034358940 Status : Answered





2.56	In a staircase, the horizontal projection distance between an inclined flight is called:	n the first and the last riser of
Ans	X A. waist	
	X B. tread	
	C. going	
	X D. nosing	
		Question ID : 1034358985 Status : Answered
		olalus . Alisticia
_		
Q.57	are used to overcome the accelerating effect of h properties of concrete in hot weather concreting.	igh temperature on the setting
Ans	X A. Catalysers	
	X B. Plasticizers	
	X C. Accelerators	
	✓ D. Retarders	
		Question ID : 1034358979
		Status : Answered
Q.58	Which type of water distribution system can water be mathrough the whole distribution system?	ade to circulate continuously
Ans	X A. Dead end system	
Ans	X A. Dead end system X B. Combined system	
Ans		
Ans	X B. Combined system	
Ans	X B. Combined system X C. Radial system	
Ans	X B. Combined system X C. Radial system	Question ID : 1034358960 Status : Answered



4.00	Which of the following tests is used to measure the usaturated clay in the field?	undrained shear strength of soft
Ans		
	X B. Unconfined compression test	
	X C. Direct shear test	
	X D. Triaxial compression test	
		Question ID : 1034358913
		Status : Answered
	of unsupported length (I) which is effectively held In rotation in both ends is:	position and restrained against
Ans	X A. 1.0 I	
	X B. 1.21	
	X B. 1.2 I ✓ C. 0.5 I	
	✓ C. 0.5 I	Question ID: 1034358984
	✓ C. 0.5 I	Question ID : 1034358984 Status : Answered
	✓ C. 0.5 I	
Q.61	C. 0.5 D. 0.7 Following are the major irrigation projects of India. In	Status : Answered
	C. 0.51 D. 0.71 Following are the major irrigation projects of India. In command area (CCA) the highest?	Status : Answered
	C. 0.5 D. 0.7 Following are the major irrigation projects of India. In command area (CCA) the highest?	Status : Answered
	C. 0.5 D. 0.7 Following are the major irrigation projects of India. In command area (CCA) the highest? A. Gandak Project	Status : Answered
Q.61 Ans	Following are the major irrigation projects of India. In command area (CCA) the highest? X B. Beas Project	Status : Answered
	C. 0.5 D. 0.7 Following are the major irrigation projects of India. In command area (CCA) the highest? A. Gandak Project B. Beas Project C. Bhakra Nangal Project	Status : Answered





	maize is 120 days, then what is the value of delta for maize?	
ns	√ A. 48 cm	
	X B. 36 cm	
	X C. 45 cm	
	X D. 40 cm	
		Outstian ID + 4024250020
		Question ID : 1034358930 Status : Answered
_		
	Which of the following distillates is NOT used for the preparation	ı of cutback Bitumen?
Ans	X A. Naphtha	
	B. Linseed oil	
	X C. Diesel oil	
	X D. Furnace oil	
		Question ID : 1034358947
		Status : Answered
2.04	MILL CI CI CI C I C I C I C I C I C I C I	
J.64 Ans	Which of the following is NOT a type of sewerage system? A. Partially combined system	
•	X B. Separate system	
	✓ C. Reticulated system	
	X D. Combined system	
	D. Combined system	
		Question ID : 1034358961
		Status : Answered



Q.65	The angle of internal friction angle for a cohesionless soil is 45°. The inclination of the
	failure plane behind a vertical wall in the passive pressure case is inclined to
	horizontal at:

Ans X

v	•	٨		۸	۸	0
۸		Д		ч	u	ľ
٠,		П	١.	v	v	

⊘ B. 22.5⁰

X C. 67.5°

X D. 0⁰

Question ID: 1034358916

Status: Answered

Q.66 The traffic signal 'STOP' sign as shown comes under the _____.



Ans X A. cautionary signs

X B. warning signs

C. regulatory signs

X D. informative signs

Question ID: 1034358956



	n which of the following methods are the length and breadths of the masonry walls at plinth level taken (internal dimensions of room + thickness of walls) for calculating quantities of building materials?
ns	A. Crossing method
	X B. Out to out and in to in method
	X C. Centre line method
	X D. Bay method
	Question ID : 1034358886 Status : Answered
.68 .ns	The ratio of the amount of consolidation at a given time within a soil mass to the total amount of consolidation obtainable under a given stress condition is called: A. the primary consolidation
	X B. an initial consolidation
	 ✗ B. an initial consolidation ✗ C. the secondary consolidation ✓ D. the degree of consolidation
	X C. the secondary consolidation
2.69	C. the secondary consolidation D. the degree of consolidation Question ID: 1034358911
	C. the secondary consolidation Question ID: 1034358911 Status: Answered Which of the following tests is most commonly used to find the relative density and
Q.69 Ans	C. the secondary consolidation Question ID: 1034358911 Status: Answered Which of the following tests is most commonly used to find the relative density and angle of shearing resistance of cohesionless soils?

D. Standard penetration test

Question ID : 1034358917 Status : Answered





along the axis of the member (reinforced concrete beam) shall not be for vertical stirrups. Where d is the effective depth of the	
X A. 1.45 d	
✓ B. 0.75 d	
X C. 0.45 d	
X D. 0.60 d	
	Question ID : 1034358981 Status : Answered
The point of contraflexure exists for which type of beams?	
X D. Simply supported beam	
	Question ID : 1034358972
	Status : Answered
What is the unit of dynamic viscosity of fluid in SI system?	
X A. Square metre/second	
X B. Dyne-second/square centimetre	
X C. Kilogram force-second/square metre	
✓ D. Newton-second/square metre	
	Question ID : 1034358918
	Status : Answered
	The point of contraflexure exists for which type of beams? X A. 1.45 d X C. 0.45 d X D. 0.60 d The point of contraflexure exists for which type of beams? X A. Fixed beam X B. Cantilever beam C. Overhanging beam D. Simply supported beam What is the unit of dynamic viscosity of fluid in SI system? X A. Square metre/second X B. Dyne-second/square centimetre X C. Kilogram force-second/square metre

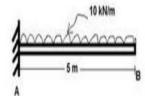




.73	In consolidation of soils, theincrease in effective stress.	_ is defined as the decrease in void ratio per unit
ns	X A. expansion index	
	X B. coefficient of volume change	
	X C. compression index	
	D. coefficient of compressibility	
		Question ID : 1034358910 Status : Answered
		Status : Allsweieu
_		
	In hydrostatics, the centre of pressur	re is calculated using the:
ns	A. principle of momentum	
	X B. principle of energy	
	C. principle of moments	
	X D. principle of Bernoulli	
		Question ID : 1034358919
		Status : Answered
.75	Which of the following sewage treatngrease from the sewage?	ment components is used to remove oil and
Ins	✓ A. Skimming tank	
	X B. Grit chamber	
	X C. Imhoff tank	
	X D. Detritus tank	
		Question ID : 1034358964
		Status : Answered



Q.76 What is the maximum moment at fixed end of the given cantilever beam?



X A. 175 kN-m Ans

✓ B. 125 kN-m

X C. 150 kN-m

X D. 100 kN-m

Question ID: 1034358983

Status: Answered

Q.77 A solid shaft of 100 mm diameter is used to transmit torque, find the maximum torque transmitted by the shaft if the maximum shear stress induced to the shaft is 32 N/mm².

Ans X A. 2500π kN-mm

X B. 2800πk N-mm

« C. 2000π kN-mm

X D. 1500π kN-mm

Question ID: 1034358975





Q.78	Which of the following types of topographical surveys consists of methods of radiation, intersection, traversing and resection?
Ans	X A. Hydrographic survey
	X B. Aerial survey
	X C. Theodolite survey
	✓ D. Plane table survey
	Question ID : 1034358895 Status : Answered
Q.79	The numerical difference between the plastic limit and shrinkage limit of a soil is known as the:
Ans	X A. plasticity index
	X B. shrinkage ratio
	X C. consistency index
	✓ D. shrinkage index
	Question ID : 1034358905 Status : Answered
Q.80	According to IS: 4954-1968, the acceptable outdoor noise level in urban residential area is:
Ans	X A. 25-35 dB
	X B. 45-50 dB
	✓ C. 35-45 dB
	X D. 50-60 dB
	Question ID : 1034358968 Status : Answered





Q.81 Select the correct order of following surface water treatment processes chronologically. Ans X A. Screening, filtration, aeration, sedimentation, disinfection X B. Aeration, screening, filtration, sedimentation, disinfection C. Screening, aeration, sedimentation, filtration, disinfection X D. Filtration, aeration, screening, disinfection, sedimentation Question ID: 1034358959 Status: Answered Q.82 The ratio of the volume of water obtained by gravity to the total volume of material (aquifer) drained is known as: X A. transmissibility X B. specific retention C. specific yield X D. storativity Question ID: 1034358938 Status: Answered Q.83 Which type of surveying does NOT make use of the principle of Triangulation? X A. Compass surveying B. Aerial surveying X C. Plane table surveying X D. Chain surveying Question ID: 1034358893 Status: Answered





,	In the effective stress principle, pore water cannot resist	
Ans	X A. tensile stress, unity	
	✓ B. shear stress, zero	
	C. compressive stress, unity	
	X D. zero, shear stress	
		0 1/ 17 10 10 10 10
		Question ID : 1034358909 Status : Answered
		Cidido . / III O II O II
_		
	For a soil sample, the ratio of the volume of voids to the volume	ne of solids is called:
Ans	X A. porosity	
	X B. the degree of saturation	
	C. the void ratio	
	D. percentage air voids	
		Question ID : 1034358901
		Status : Answered
2.86	According to IS code SP-27-1987, no deduction shall be made exceeding in painting work estimate.	for opening NOT
Ans	X A. 0.05 sq. m	
	X B. 0.75 sq. m	
	✓ C. 0.50 sq. m	
	X D. 1.00 sq. m	
		Question ID: 1034358884
		Status : Answered



Q.87 In soil particle size analysis, if D_{10} , D_{30} and D_{60} represent particle size correspond to 10%, 30% and 60 % finer than these sizes respectively, then the coefficient of curvature is given by:

Ans

$$ightharpoonup{
m K}$$
 B. $rac{D_{60}^2}{D_{30} imes D_{10}}$

$$\times$$
 C. $\frac{D_{60}}{D_{10}}$

$${f X}$$
 D. ${D_{10}^2\over D_{60}\times D_{30}}$

Question ID: 1034358904

Status: Answered

Q.88 Which of the following methods is NOT used for calculating depreciation?

∆ns

X A. Straight line method

X B. Quantity survey method

C. Crossing method

X D. Sinking fund method

Question ID : **1034358890**



Q.89	The estimated value of a built-up property at the end of its useful life dismantled is called:	without being
Ans	✓ A. salvage value	
	X B. scrap value	
	X C. book value	
	X D. market value	
		Question ID : 1034358891 Status : Answered
	Which of the following earth pressure theories assumes that there is the ground and failure surfaces are straight planes, and that the resulparallel to the backfill slope?	
Ans	X A. Coulomb's wedge theory	
	X B. Passive earth pressure	
	X C. Active earth pressure	
	✓ D. Rankine's earth pressure theory	
	Adda	Question ID : 1034358915 Status : Answered
	Under the classification of irrigation canals based on the alignment country the type of canal which is aligned along the natural ridge lines.	riteria, identify
Ans		
	✓ B. Watershed canal	
	X C. Detour canal	
	• •	
	X D. Contour canal	



2.92	Which of the following is a non-recording type of rain gauge?
Ins	X A. Weighing type
	✓ B. Symon's type
	X C. Float type
	X D. Tipping bucket type
	Question ID : 1034358927 Status : Answered
	Status . Alisweieu
	The coefficient of permeability of soil deposit in-situ condition can be determined by the:
ıns	X A. consolidation test data
	X B. variable head permeability test
	X C. constant head permeability test
	✓ D. pump out test
	Question ID : 1034358907
	Status : Answered
	What is the cost of brickwork required for a wall 4 m long, 3 m high and 30 cm thick, if the rate of brickwork is ₹200 per cubic metre?
ns	X A. ₹620
	X B. ₹950
	X C. ₹840
	✓ D. ₹720
	0 (
	Question ID : 1034358882 Status : Answered
	Sidius . Allaweieu





	The extra water that has to be supplied for different c seasons is known as:	crop periods overlap in different
Ans	X A. capacity factor	
	B. overlap allowance	
	X C. outlet factor	
	X D. kor watering	
		Question ID : 1034358934 Status : Answered
Q.96 Ans	Select the primary air pollutant from the following. A. Sulphur dioxide	
	X B. Aerosols	
	X C. Photochemical smog	
	X D. Ozone	
		Question ID : 1034358967
		Status : Answered
Q.97	The quantity of coarse aggregate required for 2 km le	
-	wide road with 12 cm thick is: (Assume no additional compaction)	I material is required for
		i material is required for
	compaction)	i material is required for
	compaction) A. 940 cu. m	i material is required for
Ans	compaction) A. 940 cu. m B. 960 cu. m	i material is required for





Q.98 A soil is said to be normally consolidated when:

Ans A. the soils which had not been subjected to the pressure greater than the present existing pressure

X B. the soil had been subjected in the past to a pressure in excess of the present pressure

X C. the soil changes its volume by the initial pressure applied on it

X D. the soil undergoes primary consolidation without any initial pressure acting on it

Question ID: 1034358912

Status: Answered

Q.99 The harmful effects of municipal solid waste includes all, EXCEPT:

Ans X A. contamination of groundwater and soil

X B. involving waste collection, transportation, segregation of wastes and disposal techniques

X C. providing breeding sites of insects and infectious organisms

D. improving the physiochemical and biological properties of plants and soil due to the large amount of nutrients

Question ID: 1034358965

Status: Answered

Q.100 A soil has a liquid limit of 25% and a flow index of 12.5%. If the plastic limit is 15% and the water content of the soil in its natural condition in the field is 20%, determine the liquidity index:

Ans X A. 65%

⊘ B. 50%

X C. 80%

X D. 10%

Question ID: 1034358906



Q.101 The relationship between the elastic constants such as Young's modulus (E), rigidity modulus (G) and bulk modulus (K), is given by:

Ans

$$\star$$
 A. $E = \frac{9KG}{3K - G}$

$$\nearrow$$
 B. $E = \frac{KG}{K+G}$

$$\nearrow$$
 D. $E = \frac{9KG}{3G + K}$

Question ID: 1034358970

Status: Answered

Q.102 Select the correct option from the following statements between cost and value.

Statement-1: Cost means the actual cost of construction whereas value means the present market value.

Statement-2: Cost depends on demand and supply whereas value is a constant amount.

Ans

✓ A. Statement-1 is correct and statement-2 is incorrect

- X B. Both statements are incorrect
- X C. Both statements are correct
- X D. Statement-1 is incorrect and statement-2 is correct

247

Question ID : 1034358889





IS	X A. height of instrument	
	X C. parallax	
	X D. diaphragm	
		Question ID : 1034358897 Status : Answered
		Status . Answered
	Softening point of the bitumen is determined using t	:he
Ans	A. ring and ball test	
	X B. float test	
	C. flash and fire point test	
	X D. viscosity test	
		Question ID : 1034358948
		Status : Answered
	Among the following, identify the one, which does N adjustments for a Dumpy level.	OT belong to the temporary
Ans	X A. Setting up the level	
	X B. Elimination of parallax	
	X C. Levelling up	
	✓ D. Level tube adjustment	
		Question ID : 1034358898
		Status : Answered





Ans	X A. 200 mm
	✓ B. 600 mm
	X C. 800 mm
	X D. 400 mm
	A D. 400 Hilli
	Question ID : 1034358978
	Status : Answered
	Which of the following is NOT an assumption of Bernoulli's theorem applied to fluid flow?
Ans	✓ A. The fluid is real.
	X B. The flow is ideal.
	X C. The flow is incompressible.
	X D. The flow is steady.
	Question ID : 1034358921
	Status : Answered
	A soil sample has a water content of 10% and a void ratio of 0.5. If the specific gravity
	of the soil sample is 2.70, determine the degree of saturation.
Ans	X A. 0.45
	X B. 0.49
	✓ C. 0.54
	X D. 0.59
	Outputter ID : 4024950000
	Question ID : 1034358902 Status : Answered
	Gialas : Alistota





ns	X A. 1524 mm	
	X B. 762 mm	
	✓ C. 1676 mm	
	X D. 1000 mm	
		Question ID : 1034358952 Status : Answered
Q.110		
	According to IRC 15-2002 specific	
	According to IRC 15-2002 specific joints in an unreinforced cement of A. 8.5 m	
	joints in an unreinforced cement	
	joints in an unreinforced cement of A. 8.5 m	
	joints in an unreinforced cement of A. 8.5 m B. 4.5 m	
	joints in an unreinforced cement of A. 8.5 m B. 4.5 m C. 14 m	