

SSC JE 2014 General Engineering Civil and Structural



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Will be taken against them menong	completely banned in the examination halls/rooms. Can	didates are 15. "परीक्षा हालों/कमरों में मोबाइल फोन तथा बेतार संचार साधन पूरी तरह 1914 * wireless र्वे 1 रामीटलामें को उनके अपने हित में सलाह दी जाती है कि मोबाइल
Will be taken against them menong	communication devices with them even switching it	off, in their फोन/किसी अन्य बेतार संचार साधन को स्विच ऑफ करके भी अपने पास न
Will be taken against them menong	own interest. Failing to comply with this provisi considered as using unfair means in the examination	on will be रखें । इस प्रावधान का अनुपालन न करने को परीक्षा में अनुचित उपाया की and action
candidature.	will be taken against them including cancellation candidature."	n of their प्रयोग माने जाएगा आर उनके विरुद्ध कारवाड़ का जारना, उनके सहित ।"



TEST (iii) PART A : GENERAL ENGINEERING (CIVIL AND STRUCTURAL)

101. A linear force-deformation relation obtained in materials

- (A) having elastic stress-strain property(B) having plastic stress-strain property
- (C) following Hooke's law
- (D) which are rigid elastic materials

102. The property of a material by which it can be beaten or rolled into plates, is called

- (A) malleability
- (B) ductility
- (C) plasticity
- (D) elasticity

103. In a cantilever beam subjected to general loading, the maximum bending moment is at

Moment of inertia of rectangular section shown in Fig. about its horizontal centroidal

105. Ratio of length of column to the minimum radius of gyration of the cross-sectional area

of the column is known as (A) Slenderness ratio

(B) Buckling ratio(C) Crippling ratio(D) Compressive ratio

(B) db³/3
 (D) bd³/3

- (A) fixed end
- (B) free end

axis is (A) $db^3/12$

(C) $bd^{3}/12$

104.

- (C) mid-span
- (D) quarter-span

relation is **106.** The top diameter, bottom diameter and the height of the steel mould used for slump test are

- (A) 10 cm, 20 cm, 30 cm
- (B) 10 cm, 30 cm, 20 cm
- (C) 20 cm, 10 cm, 30 cm
- (D) 20 cm, 30 cm, 10 cm
- 107. The early high strength of rapid hardening cement is due to its
 - (A) increased content of gypsum
 - (B) burning at high temperature
 - (C) increased content of cement
 - (D) higher content of tricalcium
- 108. Which of the beams given in the following Figs, is a determinate beam ?



109. The effective slenderness ratio of a cantilever column is

(A)	0·5 L/r	(B)	L/r	
(C)	$\sqrt{2}$ L/r	(D)	2 L/r	

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SPACE FOR ROUGH WORK / एफ़ कार्य के लिए स्थान



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Hora Stranger

110. If the area of tension reinforcement provided	117. A T-beam behaves as a rectangular beam of a width equal to its flange if its neutral axis
is less than that required for a balanceu	which equal to the same
section, then the RCC beam is called	(A) falls within the flange
(A) over reinforced	(B) falls below the flange
(B) neutral reinforced	(C) coincides with the geometrical centre of
(C) under reinforced	the beam
(D) bottom reinforced	- an 1 to the controidal axis of the
111. Workability of concrete for a given water content is good if the aggregates are	beam
(A) angular aggregates	118. If τ_v is the nominal shear stress, τ_c is design
(B) flaky aggregates	shear strength of concrete and $\tau_{c, max}$ is the
(C) rounded aggregates	maximum design shear strength of concrete,
(D) irregular aggregates	which of the following statements is correct?
	(A) If $\tau_v > \tau_{c, \text{ max}}$, section is to be designed
112. Generally, strength of concrete is considered	for shear.
negligible/very low in (A) Compression (B) Tension	(B) If $\tau_v > \tau_{c, max}$, minimum shear
(A) Compression (D) News of the shove	reinforcement is to be provided.
(C) Fatigue (D) None of the above	
113. As the cement sets and hardens, it generates	s (C) If $\tau_v < \tau_c$, minimum shear reinforcement
heat. This is called	is to be provided.
(A) Heat of hydration	(D) If $\tau_v > \tau_{c_i}$ minimum shear reinforcement
(B) Latent heat	is to be provided.
(C) Heat of vaporisation	
(D) Sensible heat	119. In limit state of collapse for direct
1.1. hand mining is adoute	compression, the maximum axial compression
114. In concrete, while hand mixing is adopted excess cement to be added is	strain in concrete is
(D) 100/	(A) 0.002 (B) 0.003
(A) 4/0	(C) 0.0035 (D) 0.004
(C) 1470	
115. For constructing road pavements, the type	of 120. A reduction factor C_r to load carrying capacity
cement generally used is	for a long column of effective length L _e a
(A) ordinary Portland cement	width b is applied as obtained from following
(B) rapid hardening cement	expression :
(C) low heat cement	
(D) blast furnace slag cement	(A) $1 - \frac{L_e}{24 b}$ (B) $1.25 - \frac{L_e}{36 b}$
fortable time of stair for usage is	
116. A very comfortable type of stair for usage is (A) straight (B) dog legged	(C) $1.25 - \frac{L_e}{48 b}$ (D) $1.5 - \frac{L_e}{60 b}$
(11) 01-0-0	48 b 60 b
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21.	The standard 5-day BOD at 20°C, when compared to ultimate BOD is about		oisson's ratio" is defined as the ratio of
	(A) 60% (B) 68%) lateral strain to linear strain
		. (B	3) linear strain to lateral strain
	(C) 80% (D) 90%	(C	2) lateral stress to linear stress
22.	The global warming is caused mainly by	(I	0) linear stress to lateral stress
	(A) NO_X (B) SO_X	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	'A' is the area of cross-section and T is the
2 	(C) CO ₂ (D) O ₂	th	oment of inertia of a given plane section, nen radius of gyration (r) is given by the
123.	The ratio of the quantity of water stored in	fo	rmula
	the root zone of the crops to the quantity of		A) $\mathbf{r} = \mathbf{I}/\mathbf{A}$ (B) $\mathbf{r} = \sqrt{\mathbf{I}/\mathbf{A}}$
	water actually delivered in the field is known as	((C) $\mathbf{r} = \mathbf{A}/\mathbf{I}$ (D) $\mathbf{r} = \sqrt{\mathbf{A}/\mathbf{I}}$
	(A) water use efficiency	129. S	train energy due to axial deformation is
•	(B) water conveyance efficiency	g	iven by
	(C) water application efficiency		$(\sigma: resultant stress$
• •	(D) water storage efficiency	-	P : axial load Δ : deformation
	(2) mater storage channely		ε: strain
124.	For unlined canals, the freeboard is measured		E : modulus of elasticity)
	from the	0	A) σέ (B) ΡΔ
•	(A) full supply level to top of the bank	·	· · · · ·
	(B) top of the bank to bed of the canal	(C) $\sigma^2/2E$ (D) $\frac{1}{2}$ P Δ ·
	(C) full supply level to top of the dowel	130. T	he maximum shear force in a simply
	(D) None of the above		upported beam of span L, subjected to a
195	The ruling minimum radius of the curve for		entral point load, W is given by the following
140.	ruling design speed V m/sec, coefficient of		xpression :
	friction f, acceleration due to gravity g m/sec ² and superelevation e is given by	(A) $\frac{W}{2}$ (B) WL
	(A) $V^2/(e-f)g$ (B) $V^2/(f-e)g$	(C) $WL^2/2$ (D) $WL^2/4$
	(C) $V^2/(e+f)g$ (D) $V^2/(e+f)2g$		30 kN
126	. Camber in the road is provided for	131.	
	(A) counteracting the centrifugal force	a	$-1 \text{ m} \rightarrow + - 2 \text{ m} \rightarrow $
* -	(B) effective drainage		For simply supported beam shown in Fig., the magnitude of vertical reaction at 'B' is
	(C) having proper sight distance		(A) 20 kN (B) 18 kN
	(D) avoiding overturning	1	(C) 15 kN (D) 10 kN

(a) A set of a set



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	(A) tension member		The size of a rivet is identified by (A) diameter of shank
	(B) compression member		(B) diameter of head
	(C) flexural member		(C) length of shank
	(D) torsion member		(D) shape of head
33.	The slenderness ratio of lacing bars should <i>not</i> exceed	140.	Horizontal stiffeners are needed in plate girders if the thickness of web is less than
	(A) 120 (B) 145		(A) 6 mm (B) Depth/200
	(C) 180 (D) 100		(C) Span/500 (D) Flange thickness
34.	The minimum clear cover (in mm) for the main reinforcement in column, according to	141.	Permissible stress may also be known as
	IS : 456-2000 is		(A) ultimate stress
	(A) 20 (B) 25		(B) working stress
•	(C) 40 (D) 50		(C) limit stress
			(D) yield stress
135.	The diameter of longitudinal bars of a RCC column should never be less than (A) 6 mm (B) 8 mm (C) 10 mm (D) 18 mm	142.	The maximum permissible stress for power driven field rivet in bearing on rivet is '
÷.,	(C) 10 mm (D) 12 mm		(A) 100 N/mm ² (B) 250 N/mm ²
136.	In an RCC section of effective depth 'd', if vertical stirrups are provided to resist shear,	•	(C) 270 N/mm ² (D) 300 N/mm ²
	their maximum spacing measured along the axis of the member as per IS : 456-2000 should not exceed	143.	Bearing stiffeners are designed as(A) beams(B) beam-ties(C) ties(D) column
	(A) 0.25 d (B) 0.50 d		(C) Lies (D) corunn
107	(C) 0.75 d (D) 1.00 d ·	144.	The maximum allowable slenderness ratio for members carrying compressive load due to
137.	For a continuous slab of $3 \text{ m} \times 3.5 \text{ m}$ size, the minimum overall depth of slab to satisfy		wind and seismic force only is
	vertical deflection limit is		(A) 180 (B) 250
	(A) 5 cm (B) 7.5 cm		(C) 350 (D) 400
	(A) 5 cm (B) 7.5 cm (C) 10 cm (D) 15 cm	145	The throat in a fillet weld is
	(C) 10 cm (D) 10 cm	140.	(A) large side of the triangle of the fillet
138.	As per IS : 800, the factor of safety adopted with respect to the yield stress of steels is		(B) hypotenuse of the triangle of the fillet
	(A) 1·45 (B) 1·5		(C) smaller side of the triangle of the fillet
	(C) 1.67 (D) 2.0		(D) perpendicular distance from the root to the hypotenuse



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No.

4.4

46. The correction chain for a lin of θ is -	to be applied to each 30 m e measurement along a slope	e	eleva		n on a point whose termined as a change
(A) $30(1-\cos \theta)$	$\theta) \qquad (B) 30 \ (1 - \sin \theta)$			foresight reading	
(C) 30 (1 – tan	θ) (D) 30 (1 - cot θ)			backsight reading	
47. Narrowly spaces shows that the	ed contour lines on a map area is			intermediate sigh long sight	t
(A) Flat		1			
(B) Steeply slo	ped	152.	Clay	is generally	
(C) Vertical cl	ff		(A)	cohesive	and participation of
(D) Overhang	cliff	-12-2	(B)	permeable	,
	양 영화 영화 소리 같은		(C)	having large part	icle size
	the tangent of a curve whose the angle of deflection Δ is		(D)	None of the above	9
(A) R tan $\frac{\Delta}{2}$	(B) $2R\sin\frac{\Delta}{2}$	153.	The	ratio Liquid limi Plas	$\frac{t - Water content}{ticity index}$ for a
(C) 2R tan $\frac{\Delta}{2}$	(D) $R \sin \frac{\Delta}{2}$			mass is called	
				Liquidity index	
149. Radiation, Inte	ersection and Resection are			Shrinkage ratio	
(A) Compass	Surveying Techniques		(C)	Consistency inde	X
(B) Chain Su	rveying Techniques		(D)	Toughness index	
(C) Levellinğ	Techniques				
(D) Plane Tal	ble Surveying Techniques	154.			ng of a line is 210° 0′ 0″ al bearing system is
150. Which of the	following statements in respec	t	(A)	S 30° 0′ 0″ W	(B) N 30° 0′ 0″ E
of a map A ha	ving scale 1 : 1000 and anothe scale 1 : 5000 is true ?	-	(C)	S 30° 0′ 0″ E	(D) N 30° 0′ 0″ W
(A) Map A is map B.	a large scale map compared t	⁰ 155.		e magnetic decli tween	nation is the difference
(B) Map B is map A.	a large scale map compared	to .	(A		and False Meridian
(C) Map B is	a more detailed map compare	ed	(B		and True Meridian and Magnetic Meridian
to map A			(C		lian and False Meridian
(D) None of	the above	1	(D) magnetic meric	nan anu i aise merulan

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156.	To prevent segregation, the maximum height for placing concrete, is	162.	the	batching $1:2:4$ concrete mix by volume ingredients required per bag (50 kg) o ent are
•	(A) 100 cm (B) 125 cm (C) 150 cm (D) 200 cm		(A)	100 litres of fine aggregate : 140 litres o coarse aggregate
157.	Di-calcium silicate (C ₂ S)		(B)	100 kg of fine aggregate : 200 kg o coarse aggregate
	(A) hydrates rapidly	-	(C)	70 kg of fine aggregate : 140 kg of coars
	(B) generates less heat of hydration			aggregate
	(C) hardens rapidly		(D)	70 litres of fine aggregate : 140 litres of coarse aggregate
	(D) has less resistance to sulphate attack	100		
158.	Separation of coarse aggregates from concrete during transportation, is known as	163.		ting is increase in volume of sand due t moisture which keeps sand particle
	(A) bleeding (B) creeping			apart
	(C) segregation (D) evaporation		(B)	increase in density of sand due t impurities like clay, organic matter
159.	The resistance of an aggregate to wear is known as		(C)	ramming of sand so that it occupie minimum volume
	(A) impact value		(D)	compacting of sand
	(B) abrasion resistance	164.		concrete cubes are prepared, cured an
	(C) shear resistance	•	test nun	ed according to Indian Standards cod aber
	(D) crushing resistance		(A)	IS:515 . (B) IS:516
160.	If fineness modulus of a sand is 2.5, it is		(C)	IS:517 (D) IS:518
	graded as. (A) very fine sand	165.		aggregate is said to be flaky, if its leas ension is less than
	(B) fine sand		·(A)	$\frac{2}{3}$ mean dimension
	(C) medium sand	~		
	(D) coarse sand	÷	(B)	$\frac{1}{2}$ mean dimension
161.	. Water-cement ratio is measured		(C)	$\frac{3}{5}$ mean dimension
	of water and cement used per cubic metre of concrete.		(D)	$\frac{3}{4}$ mean diameter
	(A) volume by volume			
	(B) weight by weight	166.		fineness of cement can be found out be e analysis using IS sieve number
	(C) weight by volume		(A)	
	(D) volume by weight		(C)	



167	The discharge through a V-notch varies	150	P 1
107.	(A) proportional to head (H)	173.	Each term of the Bernoulli equation
	(B) inversely proportional to angle θ		represents
۰.	· · · · · ·		(A) energy per unit weight
	 (C) proportional to H^{5/2} (D) in the second second		(B) energy per unit mass
	(D) inversely proportional to $\tan \theta/2$		(C) energy per unit volume
168.	The volume of voids to the total volume of soil		(D) specific energy
	is known as	174	Programs in toring of motion of all (modify
	(A) porosity	1/4.	Pressure in terms of metres of oil (specific gravity = 0.9) equivalent to 4.5 m of water is
	(B) void ratio		
	(C) air ratio		(A) 4·05 (B) 5·0
	(D) air content		(C) 3.6 (D) 0.298
169.	A fundamental equation of void ratio (e), maxific constitution (C) matter state (T)		Typically, a hydroelectric plant will have following hydraulic machine :
	specific gravity (G), water content (W) and the degree of saturation $(S_{\rm p})$ is		(A) Hydraulic Turbine
		a.	
	(A) $e = \frac{WG}{S_p}$ (B) $W = \frac{eG}{S_p}$		(B) Hydraulic Pump
	P P		(C) Electric Motor
	(C) $G = \frac{eW}{S}$ (D) $S_p = \frac{eW}{G}$		(D) None of the above
	^o p ^p G	176.	Darcy – Weisbach equation to calculate the
170.	Manometer is a device used for measuring		head loss due to friction for flow through
	(A) Velocity (B) Pressure		pipes is applicable when the flow through the
	(C) Density (D) Discharge		pipe can be
	이번에서 이번 이번 이번 이번 등 것이 있다.		(A) laminar only
171.	Capillarity is due to		(B) turbulent only
	I. surface tension		(C) both laminar and turbulent
	II. cohesion	- a	(D) subcritical flow
	III. viscosity		못 봐야 한 것 않는 것이 많이 들었다.
	IV. vapour pressure	177.	The dimension for Angular velocity is
	V. weight density of liquid		(A) T^2 (B) T^{-1}
	(A) II, III (B) III		(C) T^1 (D) T^{-2}
	(C) I . (D) II, III, V		
172.	Flow of water through a passage under		Which of the following flow constants does
	atmospheric pressure is called		not have any unit?
	(A) Pipe flow		(A) Chezy's C
	(B) Uniform flow		(B) Manning's N
	(C) Open channel flow		(C) Both Chezy's C and Manning's N
	(D) Non-uniform flow	· · ·	(D) None of the above



170			
179	The damp proof course (D.P.C.) of uniform thickness in a building having walls of different widths is measured in	185.	The value of the property at the end of its useful life (without being dismantled) is known as
	(A) m ⁴ (B) m ³		(A) Salvage value
	(C) m ² (D) m		(B) Scrap value
180	The plan of a building is in the form of a	e	(C) Book value
	rectangle with centre line dimensions of the outer walls as $10.3 \text{ m} \times 15.3 \text{ m}$. The thickness		(D) Junk value
•	of the walls in superstructure is 0.3 m. Then its carpet area is	186.	The multiplying constant for the tacheometer
r 2	(A) 150 m^2 (B) 157.59 m^2		is, generally, kept as
	(C) 165.36 m^2 (D) 170 m^2		(A) 100 (B) 20
181	Pick up the item of work <i>not</i> included in the		(C) 40 (D) 60
	plinth area estimate.	187.	The fundamental principle of surveying is to
	(A) Wall thickness		work from the
	(B) Room area		(A) whole to part
1	(C) Verandah area	;	(B) part to whole •
	(D) Courtyard area		(C) lower level to higher level
182.	One brick thickness of wall is roughly equal to		(D) higher level to lower level
	(A) 10 cm (B) 15 cm	188.	Volume by Trapezoidal Formula Method is determined by the formula
	(C) 20 cm (D) 30 cm		
183.	A work costing ₹ 20,000 is termed as	(A)	$D\left\{\frac{A_0 + A_n}{2} + A_2 + A_4 + A_6 + \dots A_{n-1}\right\}$
	(A) Petty work (B) Minor work	(B)	$D\left\{\frac{A_{1}+A_{n}}{2}+A_{0}+A_{1}+A_{3}+A_{n-1}\right\}$
	(C) Major work (D) Minor project		
184.	The density of cement is taken to be	(C)	$D\left\{\frac{A_{0}+A_{1}}{2}+A_{1}+A_{3}+A_{5}+A_{n-1}\right\}$
	(A) 1000 kg/m ³ (B) 1250 kg/m ³		
-	(C) 1440 kg/m ³ (D) 1800 kg/m ³ 2014/Page 34 SPACE FOR ROUGH WO	(D)	$\mathbf{D}\left\{\frac{\mathbf{A}_{0}+\mathbf{A}_{n}}{2}+\mathbf{A}_{1}+\mathbf{A}_{2}+\mathbf{A}_{3}+\mathbf{A}_{4}+\mathbf{A}_{n-1}\right\}$



 (A) Quick lime (A) Quick lime (B) Slaked lime (C) Hydraulic lime (D) Fat lime (E) Aluminium is anodized to protect it from weathering effect by forming a surface coat of the concrete? (A) Calcium chloride (B) Calcium lignosulphonate (C) Calcium stearate (D) Aluminium powder (A) Bulking of sand is maximum at 4-6% moisture content. (D) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free (D) Bulking of sand occurs due to free 			· · ·		
 be calculated from the formula (A) I = Si / (1 + i)ⁿ⁻¹ (B) I = S(1 + i)ⁿ⁺¹ / (1 + i) (D) I = Si / (1 + i)ⁿ⁺¹ (E) Sidel used in RCC structures conforms to (A) IS : 432 (B) IS : 1566 (C) IS : 1786 (D) IS : 2062 (D) IS : 1786 (D) IS : 2062 (A) Quick lime (B) Slaked lime (C) Hydraulic lime (D) Fat lime (D) Fat lime (D) Fat lime (E) Calcium chloride (E) Calcium chloride (C) Calcium stearate (D) Aluminium powder (E) Subking of sand is maximum at 44% moisture content. (C) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free (C) Deulking of sand occurs due to free (D) Bulking of sand occurs due to free (C) Detalled estimate (D) Bulking of sand occurs due to free (C) Detalled estimate (D) Bulking of sand occurs due to free 	· >/1			194.	
 (b) 1 = S(1 + i)ⁿ⁺¹/(1 + i) (c) I = S(1 + i)ⁿ⁺¹/(1 + i) (d) Seel used in RCC structures conforms to (A) IS: 432 (B) IS: 1566 (c) IS: 1786 (D) IS: 2062 (e) IS: 1786 (D) IS: 2062 (f) Slaked lime (g) Slaked lime (h) Quick lime (h) Quick lime (h) Quick lime (c) Hydraulic lime (d) Quick lime (e) Hydraulic lime (f) Fat lime (g) Slaked lime (c) Hydraulic lime (d) Calcium chloride (e) Calcium stearate (f) Aluminium powder (g) Subking of sand is maximum at 46% moisture content. (h) Bulking of sand is considered in weigh batching of concrete mix. (f) Bulking of sand occurs due to free (f) Detailed estimate 	75	100			(A) IS: 3101 (B) IS: 3102
 (C) I = S (1 + i)ⁿ⁺¹/(1 + i) (D) I = Si / (1 + i)ⁿ⁺¹ (D) I = Si / (1 + i)ⁿ⁺¹ (D) I = Si / (1 + i)ⁿ⁺¹ (E) Mild steel used in RCC structures conforms to (A) IS : 432 (B) IS : 1566 (C) I S : 1786 (D) IS : 2062 (I) Solvent (D) Extender (I) Solvent (II) Extender (I) Solvent (II) Extender (II) Solvent (II) Extender (II) Solvent (II) Extender (II) Solvent (III) Extender (III) Extender (IIII) Extender (IIIII) Extender (IIIII) Extender (IIIII) Extender (IIIII) Extender (IIIIII) Extender (IIIIIII) Extender (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			(A) $I = Si / (1 + i)^{n-1}$		(C) IS: 3495 (D) IS: 3496
 (C) 1 = S (1 + i)ⁿ⁻¹ / (1 + i) (D) I = Si / (1 + i)ⁿ⁺¹ (A) Base (B) Binder (C) Solvent (D) Extender (D) IS : 432 (B) IS : 1566 (C) IS : 1786 (D) IS : 2062 (D) IS : 2062 (E) Solvent (D) Extender (C) 26 - 29 (D) 29 - 32 (D) Fat lime (E) Fat lime (E) Fat lime (F) Calcium stearate (F) Aluminium powder (F) Solking of sand can go up to 40%. (F) Bulking of sand is considered in weigh batching of concrete mix. (F) Bulking of sand occurs due to free 			(B) $I = S (1 + i)^{n-1} / i$	195.	In paints, methylated spirit, naphtha and
 (D) I = Si / (1 + i)ⁿ⁺¹ (C) Solvent (D) Extender 190. Mild steel used in RCC structures conforms to (A) IS : 432 (B) IS : 1566 (C) IS : 1786 (D) IS : 2062 191. Which of the following types of lime is used for plastering and white washing? (A) Quick lime (B) Slaked lime (C) Hydraulic lime (D) Fat lime 192. Which of the following acts as retarder for the concrete? (A) Calcium chloride (B) Calcium lignosulphonate (C) Calcium stearate (D) Aluminium powder 193. Identify the <i>wrong</i> statement. (A) Bulking of sand is maximum at 46% moisture content. (D) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free 			(C) $I = S (1 + i)^{n+1} / (1 + i)$		
 190. Mild steel used in RCC structures conforms to (A) IS: 432 (B) IS: 1566 (C) IS: 1786 (D) IS: 2062 191. Which of the following types of lime is used for plastering and white washing? (A) Quick lime (B) Slaked lime (C) Hydraulic lime (D) Fat lime 192. Which of the following acts as retarder for the concrete? (A) Calcium chloride (B) Calcium lignosulphonate (C) Calcium stearate (D) Aluminium powder 193. Identify the <i>wrong</i> statement. (A) Bulking of sand is maximum at 4-6% moisture content. (D) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free 190. Mild steel used in RCC structures conforms to (A) and the stimate (C) Detailed estimate (C) Setting the structure and pressure, granite can be an opposite the structure opposite the struc			(D) $I = Si / (1 + i)^{n+1}$		
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 (C) IS: 1786 (D) IS: 2062 (A) 2:2-2:4 (B) 2:4-2:6 (C) IS: 1786 (D) IS: 2062 (A) 2:2-2:4 (B) 2:4-2:6 (C) 2:6-2:9 (D) 2:9-3:2 (A) Quick lime (B) Slaked lime (C) Hydraulic lime (D) Fat lime (E) Calcium chloride (C) Calcium stearate (D) Aluminium powder (A) Bulking of sand can go up to 40%. (B) Bulking of sand is maximum at 4:6% moisture content. (D) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free (D) Bulking of sand occurs due to free (C) Detailed estimate (D) Bulking of sand occurs due to free (C) Detailed estimate (D) Bulking of sand occurs due to free 		190.		196.	
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 (A) Quick lime (B) Slaked lime (C) Hydraulic lime (D) Fat lime (E) Calcium chloride (C) Calcium stearate (D) Aluminium powder (D) Aluminium powder (A) Galaid estimate (C) Calcium stearate (D) Aluminium powder (A) Bulking of sand is maximum at 4-6% moisture content. (D) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free (A) quartzite (B) marble (C) slate (D) gneiss (D) Aluminium is anodized to protect it from weathering effect by forming a surface coat of (A) Aluminium carbide (B) Aluminium borate (C) Aluminium oxide (D) Red lead (D) Red lead (D) Red lead (D) Bulking of sand is maximum at 4-6% moisture content. (C) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free (D) Bulking of sand occurs due to free 	•	191.		197.	
 (B) Slaked lime (C) Hydraulic lime (D) Fat lime (D) Fat lime (D) Fat lime (D) Fat lime (E) Calcium chloride (E) Calcium lignosulphonate (C) Calcium stearate (D) Aluminium powder (E) Aluminium powder (E) Bulking of sand can go up to 40%. (E) Bulking of sand is maximum at 4-6% moisture content. (D) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free (C) slate (D) gneiss (D) Aluminium is anodized to protect it from weathering effect by forming a surface coat of (A) Aluminium carbide (C) Aluminium oxide (D) Red lead (D) Red lead (D) Red lead (D) Red lead (D) Bulking of sand is maximum at 4-6% moisture content. (C) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free (C) Detailed estimate (C) Detailed estimate (C) Detailed estimate (C) Detailed estimate 		•	(A). Quick lime		
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 (B) Calcium lignosulphonate (C) Calcium stearate (D) Aluminium powder 193. Identify the <i>wrong</i> statement. (A) Bulking of sand can go up to 40%. (B) Bulking of sand is maximum at 4.6% moisture content. (C) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free (C) Aluminium Oxide (D) Red lead 					(B) Aluminium borate
 (C) Calcium stearate (D) Aluminium powder 193. Identify the <i>wrong</i> statement. (A) Bulking of sand can go up to 40%. (B) Bulking of sand is maximum at 4.6% moisture content. (C) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free (D) Bulking of sand occurs due to free (D) Bulking of sand occurs due to free (D) Cheveta text 					(C) Aluminium oxide
 (D) Aluminium powder 193. Identify the <i>wrong</i> statement. (A) Bulking of sand can go up to 40%. (B) Bulking of sand is maximum at 4.6% moisture content. (C) Bulking of sand is considered in weigh batching of concrete mix. (D) Bulking of sand occurs due to free (D) Bulking of sand occurs due to free (D) Aluminium powder (D) Aluminium powder (D) Aluminium powder (D) Aluminium powder (D) Bulking of sand occurs due to free (D) Aluminium powder (D) Aluminium powder (D) Bulking of sand occurs due to free (D) Aluminium powder (D) Bulking of sand occurs due to free (D) Aluminium powder (D) Bulking of sand occurs due to free (D) Aluminium powder (D) Bulking of sand occurs due to free (D) Aluminium powder (D) Bulking of sand occurs due to free (D) Aluminium powder (D) Bulking of sand occurs due to free (D) Aluminium powder (D) Aluminium powd					(D) Red lead
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(D) Bulking of sand occurs due to free					
monouro mini formation of or bank granning			(D) Bulking of sand occurs due to free moisture film formation over sand grain.		
DB. 2014/Page 36 SPACE FOR ROUGH WORK / एफ़ कार्य के लिए स्थान		DB.	2014/Page 36 SPACE FOR ROUGH V	VORK	/ रफ़ कार्य के लिए स्थान