**Exam Name**: AEGCL\_Junior Manager\_Civil

Total Questions : 100

Description

**Important Examination Instructions** 

- 1. Each question will carry 1 (One) Mark for correct answer.
- 2. There will be a negative marking of 0.25 (one-fourth) marks for wrong answer
- 3. Do not use the alt-tab, mouse or any other device to shift from examination screen to any other screen or do not try to open any other application while attempting the examination. Doing so may result in discontinuation of examination and your examination will be considered as null and void. Attempting to close the browser repeatedly will lock the exam.

### How to use the system:

- 1. How to start the test: You can start the test by clicking the Declaration Check box and then 'I am ready to begin button'.
- 2. How to change the question: For the move to the next question you have to click on the 'Save And Next' button the same as for move to the back, click on the 'Previous' button.
- 3. How to answer a question: You can select any answer by clicking on the button displayed just before the answers. You have to finally click the button Save and Next to save your answer and move to the next question. In Exam Sections, the Red Circle corresponding to this question turns Green. You can go to any section / any question number by clicking the relevant control.
- 4. How to skip the question: You can click the "Next Question" control to move on the next question
- 5. How to mark a question for review: If you want to review any question later, you have to click the "Review" checkbox. This answer will be marked for review.
- 6. How to Submit your test: By clicking On last question and Submit Test button one popup window display asking for "Are you sure, you want to Submit your test?" You have to click on "YES" to submit your test.
- · Circle symbols displayed at the bottom of the screen:
  - -Red Color: Current Question.
  - -Green Color: Attempted Question.
  - -White Color: Unattempted Question.
  - -Blue Color: Attempted and Reviewed Question.
  - -Violet Color: Unattempted and Reviewed Question

<b>Q</b> .1		Find the strain of a brass rod of length 100 mm which is subjected to a tensile load of extension of rod is equal to 0.1 mm?	50 kN when the
Ma	rks	1	Question ID: 1706
No		Options Details	Correct Option
1	0.01		
2	0.001		✓
3	0.05		
4	0.005		

Q.2	What is the bulk modulus of elasticity?	
		Question ID:
Ma	rks 1	1707
No	Options Details	Correct Option
1	The ratio of shear stress to shear strain	
2	The ratio of direct stress to direct strain	
3	The ratio of volumetric stress to volumetric	
	strain	
4	The ratio of direct stress to volumetric strain	✓
Q.3	Bending moment in a beam is maximum when the	
		Question ID:
Ma	rks 1	1708
No	Options Details	<b>Correct Option</b>
1	Shear force is minimum	
2	Shear force is maximum	
3	Shear force is zero	✓
4	Shear force is constant	
Q.4	Shear stress in a beam is zero at	
۵. ا	Chour direct in a boarn to 2010 at	
		Question ID:
Ma	rks 1	\( \tau \)
		1700
No		1709
1.45	Options Details	1709  Correct Option
1	Options Details Neutral axis	
	·	
1	Neutral axis	Correct Option
1 2	Neutral axis Extreme fibres	Correct Option
1 2 3	Neutral axis Extreme fibres Cross section	Correct Option
1 2 3 4	Neutral axis Extreme fibres Cross section Junctions	Correct Option
1 2 3	Neutral axis Extreme fibres Cross section Junctions	Correct Option
1 2 3 4	Neutral axis Extreme fibres Cross section Junctions	Correct Option
1 2 3 4	Neutral axis Extreme fibres Cross section Junctions	Correct Option
1 2 3 4	Neutral axis Extreme fibres Cross section Junctions	Correct Option  ✓
1 2 3 4	Neutral axis  Extreme fibres  Cross section  Junctions  Twisting moment is a product of and the radius.	Correct Option  ✓  Question ID:
1 2 3 4	Neutral axis  Extreme fibres  Cross section  Junctions  Twisting moment is a product of and the radius.	Correct Option  ✓
1 2 3 4	Neutral axis  Extreme fibres  Cross section  Junctions  Twisting moment is a product of and the radius.	Correct Option  ✓  Question ID: 1710
1 2 3 4 Q.5	Neutral axis  Extreme fibres  Cross section  Junctions  Twisting moment is a product of and the radius.  rks 1  Options Details	Correct Option  ✓  Question ID:
1 2 3 4 4 Ma No 1	Neutral axis  Extreme fibres  Cross section  Junctions  Twisting moment is a product of and the radius.  rks 1  Options Details  Direction	Correct Option  ✓  Question ID: 1710
1 2 3 4 Wa Ma No 1 2	Neutral axis  Extreme fibres  Cross section  Junctions  Twisting moment is a product of and the radius.  rks 1  Options Details  Direction  Velocity	Question ID: 1710  Correct Option
1 2 3 4 4 Ma No 1	Neutral axis  Extreme fibres  Cross section  Junctions  Twisting moment is a product of and the radius.  rks 1  Options Details  Direction	Correct Option  ✓  Question ID: 1710

Q.6	A frame which is composed of members just sufficient to keep it in equilibrium, such fr	ame is
Ма	ks 1	Question ID: 1711
No	Options Details	Correct Option
1	Redundant frame	
2	Perfect frame	✓
3	Imperfect frame	
4	Deficient frame	
Q.7	Calculate the slope at supports, if the area is 180kNm². Take flexural is 50000.	rigidity as
	(A) 0.0054 radians (B) 0.0072 radians	
	(C) 0.0036 radians (D) 0.108 radians	
Ма	ks 1	Question ID: 1712
No	Options Details	Correct Option
1	A	
2	В	
3	C D	<b>✓</b>
4		
Q.8	How many constraints are there in a fixed support?	
Ма	<b>k</b> s 1	Question ID: 1713
No	Options Details	Correct Option
1	2	
2	3	
3	6	
4	Can't say	✓

Q.9	• .					
	3	Equ	ilibrium equations used to analys	se cable	is	
		(A)	$\Sigma H = 0$ only	(B)	$\Sigma H = 0$ and $\Sigma V = 0$ only	
		(C)	$\Sigma H = 0$ , $\Sigma V = 0$ and $\Sigma M = 0$	(D)	$\sum V = 0$ only	
		_				Question ID:
Ма	rks	1				1714
No			Options D	etails		Correct Option
1	А					
2	В					
3	C D					<b>√</b>
4	ט ו					
Q.		1	luence line diagrams (ILD)			Question ID:
No			Options D	etails		Correct Option
1	Points ren	nain	fixed, position of load changes			✓
2			, position of loads remain fixed			,
3	Both of the	em c	hanges			
4	Neither of	ther	n changes			
Q.	11 1	Maxi	mum tension in the cable develops	near		
Ма	rks	1				Question ID: 1716
No			Options D	etails		Correct Option
1	Supports		· · · · · · · · · · · · · · · · · · ·			✓
2	Lowest po	int				

3

4

Mid-point

Any where

Q.1	2 Moment area method is useful in determining the following in a beam	
\ \delta . 1	E moment area method is aseral in determining the following in a beam	
		Question ID:
Mai	ks 1	1717
No		Correct Option
1	Slope and deflection at a point	✓
2	Tensile and compressive stresses at a point	
3	S.F. and B.M. at a point	
4	Axial stress	
Q.1	Piezometric head is the sum of	
		Question ID:
Mai	rks 1	1718
Na	Ontiona Dataila	Correct Option
No 1	Options Details  Velocity head and pressure head	Correct Option
2	Pressure head and datum head	
3	Datum head and velocity head	<b>√</b>
4	Velocity head, pressure head and datum	
	head	
Q.1	4 Surface tension is due to	
		Question ID:
Mai	ks 1	1719
No	· · · · · · · · · · · · · · · · · · ·	Correct Option
1	Cohesion and Adhesion	
2	Tension	
3 4	Adhesion only Cohesion only	
4	Conesion only	✓
Q.1	If the Reynolds number is less than 2000, the flow in a pipe is	
		Question ID:
Mai	ks 1	1720
		0 . 0
No	·	Correct Option
1	Laminar flow	✓
2	Turbulent flow Transition flow	
3 4	Normal flow	
4	NUTHIAL HUW	

Q.	16					
		The	co-efficient of discha	rge (Cd) of venturim	eter lies with in the lim	nits
		(A)	0.6 to 0.7	(B)	0.8 to 0.85	
		(C)	0.7 to 0.8	(D)	0.95 to 0.99	
		(0)	0.1 10 0.0	(2)	0.00 to 0.00	
						Question ID:
Ма	ırks	1				1721
	1					
No				Options Details		Correct Option
1	А					
2	В					
3	С					
4	D					✓
Q.	17	A ch	nannel without any cov	er at the top is know	n as	
						Question ID:
Ma	ırks	1				1722
No				Options Details		Correct Option
1	natural					
2	open ch artificial					✓
3						
4	plain ch	annei				
Q.	18	Hyd	rology is the science w	hich deals with		
						Question ID:
Ma	ırks	1				1723
No				Options Details		Correct Option
1	rain wat					
2	flood wa					
3	river wa		Inderground water			
4						✓

Q.1	9 The surface run off is due to	
		Question ID:
Ma	ks 1	1724
		1724
No	Options Details	Correct Option
1	initial rain	
2	residual rain	
3	rain in the net supply interval	<b>√</b>
4	no rain	
Q.2	The base period for a particular crop is 100 days and the duty of the canal is 1000 he cumec, the depth of water will be	ectares per
		Question ID:
Ma	rks 1	1725
		1720
No	Options Details	Correct Option
1	0.864 cm	•
2	8.64 cm	
3	86.4 cm	<b>√</b>
4	864 cm	
		L
Q.2	1 The maximum irrigation requirement of Rice crop is exhibited by its	
		Question ID:
Ma	rks 1	1726
No	Options Details	Correct Option
1	minimum duty value	
2	maximum duty value	✓
3	maximum delta value	
4	maximum and minimum	
4	maximum and minimum	
Q.2	The first important watering of crops is usually called	
		Question ID:
Ma	rks 1	1727
No	Options Details	Correct Option
1	paleo watering	
2	kor-watering	✓
3	crop-watering	
4	por-watering	

Q.2	3 Fluids change the volume under external pressure due to	
		Question ID:
Ma	rks 1	1728
No	Options Details	Correct Option
1	plasticity	
2	viscosity	
3	compressibility	
4	impression	<b>✓</b>
	impression	
Q.2	4	
	A hydraulic structure is designed to with stand	
		Question ID:
Ma	rks 1	1729
No	Options Details	Correct Option
1	(A) Seepage forces	
2	(B) Hydraulic jump	
3	(C) Hydraulic pressure	
4		
	(D) All (A), (B), (C)	<b>√</b>
	(D) All (A), (B), (C)	✓
		<b>✓</b>
Q.2		<b>✓</b>
		<b>✓</b>
		<b>✓</b>
Q.2	The Water content (w) of a soil sample can be (in percentage)	Question ID:
	The Water content (w) of a soil sample can be (in percentage)	
Q.2	5 The Water content (w) of a soil sample can be (in percentage)	Question ID:
Q.2	5 The Water content (w) of a soil sample can be (in percentage)	Question ID:
Q.2	The Water content (w) of a soil sample can be (in percentage)  rks 1	Question ID: 1730
Q.2	5 The Water content (w) of a soil sample can be (in percentage) rks 1 Options Details	Question ID: 1730 Correct Option
Q.2	5 The Water content (w) of a soil sample can be (in percentage)  rks 1  Options Details zero	Question ID: 1730
Ma No 1 2	The Water content (w) of a soil sample can be (in percentage)  Options Details  zero greater than zero less than zero	Question ID: 1730 Correct Option
Q.2  Ma  No  1  2  3	The Water content (w) of a soil sample can be (in percentage)  rks 1  Options Details  zero  greater than zero	Question ID: 1730 Correct Option
Q.2  Ma  No  1  2  3  4	The Water content (w) of a soil sample can be (in percentage)  Options Details  zero greater than zero less than zero doesn't posses any value	Question ID: 1730 Correct Option
Q.2  Ma  No  1  2  3	The Water content (w) of a soil sample can be (in percentage)  Options Details  zero greater than zero less than zero doesn't posses any value	Question ID: 1730 Correct Option
Q.2  Ma  No  1  2  3  4	The Water content (w) of a soil sample can be (in percentage)  Options Details  zero greater than zero less than zero doesn't posses any value	Question ID: 1730 Correct Option
Q.2  Ma  No  1  2  3  4	The Water content (w) of a soil sample can be (in percentage)  Options Details  zero greater than zero less than zero doesn't posses any value	Question ID: 1730 Correct Option
Q.2  Ma  No  1  2  3  4	The Water content (w) of a soil sample can be (in percentage)  Options Details  zero greater than zero less than zero doesn't posses any value	Question ID: 1730 Correct Option
Q.2  Ma  No  1  2  3  4	The Water content (w) of a soil sample can be (in percentage)  Options Details  zero greater than zero less than zero doesn't posses any value	Question ID: 1730 Correct Option
Q.2  Ma  No  1  2  3  4	The Water content (w) of a soil sample can be (in percentage)  Options Details  zero  greater than zero less than zero doesn't posses any value  6 Soil structure exhibited in silty soils is	Question ID: 1730  Correct Option  Question ID:
Q.2  Ma  No  1  2  3  4	The Water content (w) of a soil sample can be (in percentage)  Options Details  zero  greater than zero less than zero doesn't posses any value  6 Soil structure exhibited in silty soils is	Question ID: 1730  Correct Option
Q.2  Ma  No 1 2 3 4	The Water content (w) of a soil sample can be (in percentage)  Options Details  Zero  greater than zero less than zero doesn't posses any value  6 Soil structure exhibited in silty soils is	Question ID: 1730  Correct Option  Question ID: 1731
Q.2  Ma  No 1 2 3 4  Q.2  Ma  No	The Water content (w) of a soil sample can be (in percentage)  Options Details  Zero  greater than zero less than zero doesn't posses any value  6 Soil structure exhibited in silty soils is  Options Details	Question ID: 1730  Correct Option  Question ID:
Q.2  Ma  No  1  2  3  4  No  No  1	The Water content (w) of a soil sample can be (in percentage)  Options Details  Zero  greater than zero less than zero doesn't posses any value  6 Soil structure exhibited in silty soils is  Options Details  Honey combed	Question ID: 1730  Correct Option  Question ID: 1731  Correct Option
Q.2  Ma  No 1 2 3 4  No 1 2 1 2 3 4	The Water content (w) of a soil sample can be (in percentage)  Options Details  Zero  greater than zero less than zero doesn't posses any value  Soil structure exhibited in silty soils is  Options Details  Honey combed Single grained	Question ID: 1730  Correct Option  Question ID: 1731
Q.2  Ma  No  1  2  3  4  No  No  1	The Water content (w) of a soil sample can be (in percentage)  Options Details  Zero  greater than zero less than zero doesn't posses any value  6 Soil structure exhibited in silty soils is  Options Details  Honey combed	Question ID: 1730  Correct Option  Question ID: 1731  Correct Option

Q.2	27	Fine grained soils have maximum particle size of	
			Question ID:
Ma	rks	1	1732
No		Options Details	Correct Option
1	0.075 mi	m	
2	4.75 mm		
3	0.002 mi	m	✓
4	0.75 mm		

Q.28

				00 kN/m <sup>2</sup> . At a deviator is cohesion of the sample cla		kN/m <sup>2</sup> , the sample has	
		(A)	300	(B)	200		
		(C)	100	(D)	50		
Ма	ırks	1					Question ID: 1733
No				Options Details			Correct Option
1	Α						
2	В						
3	С						✓
4	D						

A saturated clay sample undergoes an undrained triaxial compression test at a

Q.2	29	Units of coefficient of cons	solidation is	
		(A) cm/sec	(B) cm <sup>2</sup> /sec	
		(C) cm/sec <sup>2</sup>	(D) $cm^2 / sec^2$	
Ма	ırks	1		Question ID: 1734
No			Options Details	Correct Option
1	Α			
2	В			✓
3	С			
4	D			

Q.3	30	For Darcy law to be valid, flow has to be laminar and Reynolds number should be les	s than
Ma	rks	1	Question ID: 1735
No		Options Details	Correct Option
1	1		✓
2	10		
3	100		
4	2000		
			•
	) 1	Oviet and andition accurately	

Q.3	Quick sand condition occurs when	
Ma	rks 1	Question ID: 1736
No	Options Details	Correct Option
1	Effective pressure reduces to zero	✓
2	Effective preserve aguals to atmospheric	
	Effective pressure equals to atmospheric pressure	
3		

Q.3	The main purpose of providing camber is	
Ма	rks 1	Question ID: 1737
No	Options Details	Correct Option
1	To collect storm water	✓
2	To maintain equilibrium	
3	To follow IRC specifications	
4	To follow geometric specifications	

Q.3	33	The stopping sight distance of a vehicle moving with 45 kmph and having a coefficient is?	t of friction as 0.4	
			Question ID:	
Ma	ırks	1	1738	
No		Options Details	Correct Option	
1	48 m			
2	49 m			
3	50 m			
4	51 m		✓	
Q.3	34	The reaction time considered in SSD is		
Ма	ırks	1	Question ID: 1739	
No		Options Details	Correct Option	
1	1.5 sec			
2	2 sec			
3	2.5 sec		✓	
4	3 sec			
Q.3	35	The basic requirement of alignment should be		
Q.3	35	The basic requirement of alignment should be		
Q.3	35	The basic requirement of alignment should be		
Q.3	35	The basic requirement of alignment should be	Question ID:	
			Question ID:	
	35 irks	The basic requirement of alignment should be	Question ID: 1740	
Ма		1	1740	
Ma No 1	Short Easy	1	1740	
Ma No 1 2 3	Short Easy Safe	1 Options Details	1740	
Ma No 1	Short Easy Safe	1	1740	
Ma No 1 2 3	Short Easy Safe Short, Ea	1 Options Details	Correct Option	
No 1 2 3 4	Short Easy Safe Short, Ea	Options Details  asy and Safe	Correct Option	
Ma No 1 2 3 4	Short Easy Safe Short, Ea	Options Details  asy and Safe	Correct Option	
Ma No 1 2 3 4	Short Easy Safe Short, East	Options Details  asy and Safe  An intelligent driver who consumed alcohol will have a chance of	1740  Correct Option  ✓  Question ID:	
Ma No 1 2 3 4	Short Easy Safe Short, East	Options Details  asy and Safe  An intelligent driver who consumed alcohol will have a chance of	Correct Option  ✓  Question ID: 1741	
Ma No 1 2 3 4  Q.3	Short Easy Safe Short, East Short, East Increase	Options Details  asy and Safe  An intelligent driver who consumed alcohol will have a chance of  1  Options Details	Correct Option  ✓  Question ID: 1741	
Ma No 1 2 3 4  Ma No 1	Short Easy Safe Short, Ease Increase	Options Details  asy and Safe  An intelligent driver who consumed alcohol will have a chance of  Options Details  d alertness	Correct Option  ✓  Question ID: 1741  Correct Option	

Q.3	There aretypes of rail sections.	
		Question ID:
Ma	rks 1	1742
""		1742
No	Options Details	Correct Option
1	2	Correct Option
2	3	✓
3	4	
4	5	
Q.3	8 Enoscope is used to measure	
۵.,	Emocope is assure modelars	
		0
١		Question ID:
Ma	rks 1	1743
No	Options Details	Correct Option
1	Vehicle acceleration	
2	Spot speeds	✓
3	Signal setting	
"		
4	Overtaking distance	
4	Overtaking distance	
	Overtaking distance	
4	Overtaking distance	
4	Overtaking distance	
4	Overtaking distance	
Q.3	Overtaking distance  9 Which of the following is used for diverting the rolling stock?	Question ID:
4	Overtaking distance  9 Which of the following is used for diverting the rolling stock?	Question ID: 1744
Q.3	Overtaking distance  9 Which of the following is used for diverting the rolling stock?  rks 1	1744
Q.3	Overtaking distance  Which of the following is used for diverting the rolling stock?  rks 1  Options Details	
4 Q.3 Ma No 1	Overtaking distance  9 Which of the following is used for diverting the rolling stock?  rks 1  Options Details  Tongue rails	1744
Q.3	Overtaking distance  Which of the following is used for diverting the rolling stock?  rks 1  Options Details	1744
4 Q.3 Ma No 1	Overtaking distance  9 Which of the following is used for diverting the rolling stock?  rks 1  Options Details  Tongue rails	1744
4 Q.3 Ma	Overtaking distance  Which of the following is used for diverting the rolling stock?  rks 1  Options Details  Tongue rails  Stock rail	Correct Option
4 Q.3 Ma No 1 2 3	Overtaking distance  Which of the following is used for diverting the rolling stock?  This is a stock of the following is used for diverting the rolling stock?  Options Details  Tongue rails  Stock rail  Turnout	Correct Option
Ma No 1 2 3 4	Overtaking distance  9 Which of the following is used for diverting the rolling stock?  rks 1  Options Details  Tongue rails Stock rail  Turnout Check rail	Correct Option
4 Q.3 Ma No 1 2 3	Overtaking distance  9 Which of the following is used for diverting the rolling stock?  rks 1  Options Details  Tongue rails Stock rail  Turnout Check rail	Correct Option
Ma No 1 2 3 4	Overtaking distance  9 Which of the following is used for diverting the rolling stock?  rks 1  Options Details  Tongue rails Stock rail  Turnout Check rail	Correct Option
Ma No 1 2 3 4	Overtaking distance  9 Which of the following is used for diverting the rolling stock?  rks 1  Options Details  Tongue rails Stock rail  Turnout Check rail	Correct Option
Ma No 1 2 3 4	Overtaking distance  9 Which of the following is used for diverting the rolling stock?  rks 1  Options Details  Tongue rails Stock rail  Turnout Check rail	Correct Option
Ma No 1 2 3 4	Overtaking distance  9 Which of the following is used for diverting the rolling stock?  rks 1  Options Details  Tongue rails Stock rail  Turnout Check rail	Correct Option
Ma No 1 2 3 4	Overtaking distance  Which of the following is used for diverting the rolling stock?  Torgue rails  Stock rail  Turnout  Check rail  The contour lines can cross one another on map only in the case of	Correct Option
Ma No 1 2 3 4	Overtaking distance  Which of the following is used for diverting the rolling stock?  Toks 1  Options Details  Tongue rails Stock rail  Turnout Check rail  The contour lines can cross one another on map only in the case of	Correct Option  ✓  Question ID:
Ma No 1 2 3 4	Overtaking distance  Which of the following is used for diverting the rolling stock?  Poptions Details  Tongue rails  Stock rail  Turnout  Check rail  The contour lines can cross one another on map only in the case of	Correct Option  ✓  Question ID: 1745
4 Q.3 Ma No 1 2 3 4 Ma	Overtaking distance  19 Which of the following is used for diverting the rolling stock?  Tongue rails  Stock rail  Turnout  Check rail  The contour lines can cross one another on map only in the case of  Tks 1  Options Details	Correct Option  ✓  Question ID:
4 Q.3 Ma No 1 Q.4 Ma No 1	Overtaking distance  Which of the following is used for diverting the rolling stock?  Torgue rails  Stock rail  Turnout  Check rail  To ptions Details  To prion the contour lines can cross one another on map only in the case of  Options Details  a vertical cliff	Correct Option  ✓  Question ID: 1745
4 Q.3 Ma No 1 2 3 4 Ma No No	Overtaking distance  19 Which of the following is used for diverting the rolling stock?  Tongue rails  Stock rail  Turnout  Check rail  The contour lines can cross one another on map only in the case of  Tks 1  Options Details	Correct Option  ✓  Question ID: 1745

Q.4	F1	A branch of surveying in which the horizontal and vertical distances of points are obtainstrumental observations, is known as	ined by
			Question ID:
Ма	rks	1	1746
No		Options Details	Correct Option
1	Chain su	·	Correct Option
2		ble surveying	
3	Tacheon	netry	<b>√</b>
4	Levelling		,
Q.4	12	The shift of a curve is the perpendicular offset from a tangent to the jun and circular curve	ction of transition
			Ougstion ID:
Ma	rko	1	Question ID:
IVIA	IKS	1	1747
No		Options Details	Correct Option
1	Equal to		Correct Option
1 2	One-half		Correct Option
1	One-half One-third		Correct Option
1	One-half		Correct Option  ✓
1 2 3	One-half One-third		
1 2 3	One-half One-third One-four		<b>√</b>
1 2 3 4	One-half One-third One-four	th  The deflection angle may be directly obtained by setting the instrument to read ———	<b>√</b>
1 2 3 4	One-half One-third One-four	th  The deflection angle may be directly obtained by setting the instrument to read ———	<b>√</b>
1 2 3 4	One-half One-third One-four	th  The deflection angle may be directly obtained by setting the instrument to read ———	<b>√</b>
1 2 3 4	One-half One-third One-four	th  The deflection angle may be directly obtained by setting the instrument to read ———	✓ — on back
1 2 3 4	One-half One-third One-four	The deflection angle may be directly obtained by setting the instrument to read ———station	✓ on back  Question ID:
1 2 3 4	One-half One-third One-four	The deflection angle may be directly obtained by setting the instrument to read—station	✓ on back  Question ID: 1748
1 2 3 4 Q.4 Ma	One-half One-third One-four  I3  rks  0° 90°	The deflection angle may be directly obtained by setting the instrument to read—station	— on back  Question ID: 1748  Correct Option
1 2 3 4 Q.4 Ma	One-half One-third One-four  I3  rks  0° 90° 180°	The deflection angle may be directly obtained by setting the instrument to read—station	— on back  Question ID: 1748  Correct Option
1 2 3 4 Ma No 1 2	One-half One-third One-four  I3  rks  0° 90°	The deflection angle may be directly obtained by setting the instrument to read—station	— on back  Question ID: 1748  Correct Option

Q.4	4 Laser plummet in total station is used for	
Ma	rks 1	Question ID:
IVIA	rs	1749
No	Options Details	Correct Option
1	Levelling	
2	Centering	✓
3	Orientation	
4	Bi-section of point sighted	
Q.4	5 The difference between face left and face right observations of a theodolite is 3'. The	error is

Ма	rks 1	Question ID: 1750
No	Options Details	Correct Option
1	45'	
2	1' 30"	✓
3	3'	
4	0'	

Q.4	46	The earth's curvature makes objects appear ———— than they really are	
Ма	ırks	1	Question ID: 1751
No		Options Details	Correct Option
1	Higher		
2	Lower		✓
3	Bigger		
4	Smaller		

Q.4	47	The maximum area of tension reinforcement in beams shall not exceed	
Ма	arks	1	Question ID: 1752
No		Options Details	Correct Option
1	2%		
2	4%		✓
3	0.15%		
4	1.50%		

Q.4	8 The diameter of longitudinal bars of a column should never be less than			
		Question ID:		
Ma	rks 1	1753		
No	Options Details	Correct Option		
1	6 mm			
2	8 mm			
3	10 mm			
4	12 mm	✓		
Q.4	9 As per IS 456-2000, the minimum eccentricity for columns shall be given by			
		Question ID:		
Ma	rks 1	1754		
No	Options Details	Correct Option		
1	1/500+D/30	✓		
2	1/450+D/45			
3	1/400+D/40			
4	1/250+D/25			
	Q.50 Calculate the limiting depth of the neutral axis for mild steel of effective depth 400 mm.			
Q.5	O Calculate the limiting depth of the neutral axis for mild steel of effective depth 400 mm	1.		
Q.5	O Calculate the limiting depth of the neutral axis for mild steel of effective depth 400 mm	1.		
Q.5	O Calculate the limiting depth of the neutral axis for mild steel of effective depth 400 mm	1.		
Q.5	O Calculate the limiting depth of the neutral axis for mild steel of effective depth 400 mm	1.		
Q.5	Calculate the limiting depth of the neutral axis for mild steel of effective depth 400 mm	Question ID:		
Q.5				
		Question ID:		
		Question ID:		
Ма	rks 1	Question ID: 1755		
Ma No	rks 1 Options Details	Question ID: 1755		
Ma No	Options Details 318 mm	Question ID: 1755 Correct Option		
Ma No 1 2	Options Details  318 mm 212 mm	Question ID: 1755 Correct Option		
Ma No 1 2 3	Options Details  318 mm 212 mm 455 mm	Question ID: 1755 Correct Option		
No 1 2 3 4	Options Details  318 mm 212 mm 455 mm 656 mm	Question ID: 1755 Correct Option		
Ma No 1 2 3	Options Details  318 mm 212 mm 455 mm 656 mm	Question ID: 1755 Correct Option		
No 1 2 3 4	Options Details  318 mm 212 mm 455 mm 656 mm	Question ID: 1755 Correct Option		
No 1 2 3 4	Options Details  318 mm 212 mm 455 mm 656 mm	Question ID: 1755 Correct Option		
No 1 2 3 4	Options Details  318 mm 212 mm 455 mm 656 mm	Question ID: 1755  Correct Option		
Ma No 1 2 3 4	Options Details  318 mm 212 mm 455 mm 656 mm  1 Size of rivet hole is size of rivet	Question ID: 1755 Correct Option		
No 1 2 3 4	Options Details  318 mm 212 mm 455 mm 656 mm  1 Size of rivet hole is size of rivet	Question ID: 1755  Correct Option		
Ma No 1 2 3 4	Options Details  318 mm 212 mm 455 mm 656 mm   Size of rivet hole is size of rivet	Question ID: 1755  Correct Option  Question ID: 1756		
Ma No 1 2 3 4	Options Details  318 mm 212 mm 455 mm 656 mm   Size of rivet hole is size of rivet	Question ID: 1755  Correct Option  ✓  Question ID:		
Ma No 1 2 3 4	Options Details  318 mm 212 mm 455 mm 656 mm  1 Size of rivet hole is size of rivet	Question ID: 1755  Correct Option  Question ID: 1756		
Ma No 1 2 3 4  Q.5	Options Details  318 mm 212 mm 455 mm 656 mm  1 Size of rivet hole is size of rivet  Options Details	Question ID: 1755  Correct Option  Question ID: 1756  Correct Option		
Ma No 1 2 3 4  Q.5	Options Details  318 mm 212 mm 455 mm 656 mm  1 Size of rivet hole is size of rivet  Change of the company of the compan	Question ID: 1755  Correct Option  Question ID: 1756  Correct Option		

1	In a beam-beam connection, which type of connection is used when top flanges are re same level?	equired to be at
	came level.	
		Question ID:
Ма	irks 1	1757
No 1	Options Details bracket connection	Correct Option
2	combined splice plate/end plate connection	
3	combined splice plate/bracket connection	✓
4	moment resistant connection	
Q.5	According to IS code, strength of spliced portion of the effective strength of n	naterial spliced.
		Question ID:
Ma	urks 1	1758
		1738
No	Options Details	<b>Correct Option</b>
1	should not be less than 50%	✓
2	should be less than 50%	
3	should not be less than 80%	
4	should be less than 80%	
	The process of coloring phloride and processing phloride in content and	
Q.5	The presence of calcium chloride and magnesium chloride in water causes	
i		
		Question ID:
Ma	irks 1	Question ID: 1759
		1759
No	Options Details	1
		1759
<b>No</b> 1	Options Details	1759
<b>No</b> 1 2	Options Details odour turbidity	Correct Option
No 1 2 3	Options Details odour turbidity hardness	Correct Option
No 1 2 3	Options Details  odour  turbidity  hardness  coagulation	Correct Option
No 1 2 3 4	Options Details  odour  turbidity  hardness  coagulation	Correct Option
No 1 2 3 4	Options Details  odour  turbidity  hardness  coagulation	Correct Option
No 1 2 3 4	Options Details  odour  turbidity  hardness  coagulation	Correct Option  ✓
No 1 2 3 4	Options Details  odour  turbidity  hardness  coagulation  The cleaning frequency for a rapid sand filter is	Correct Option  ✓  Question ID:
No 1 2 3 4	Options Details  odour  turbidity  hardness  coagulation	Correct Option  ✓
No 1 2 3 4	Options Details  odour  turbidity  hardness  coagulation  The cleaning frequency for a rapid sand filter is	Correct Option  ✓  Question ID:
No 1 2 3 4 4 Ma	Options Details  odour turbidity hardness coagulation  55 The cleaning frequency for a rapid sand filter is  orks 1  Options Details 2 to 3 hours	Correct Option  ✓  Question ID: 1760
No 1 2 3 4 Ma No 1 2	Options Details  odour turbidity hardness coagulation  The cleaning frequency for a rapid sand filter is  options Details  2 to 3 hours 1 to 2 weeks	Correct Option  ✓  Question ID: 1760
No 1 2 3 4 Ma No 1	Options Details  odour turbidity hardness coagulation  55 The cleaning frequency for a rapid sand filter is  orks 1  Options Details 2 to 3 hours	Correct Option  ✓  Question ID: 1760

Q.56		According to BIS, the water consumption in litres per capita per day for domestic purp	ose is
Ma	rks	1	Question ID: 1761
No		Options Details	Correct Option
1	90		
2	135		✓
3	100		
4	150		
			•

Q.5	57 Bleaching powder is	
Ma	rks 1	Question ID: 1762
No	Options Details	Correct Option
1	slaked lime	
2	hypo-chloride of lime	
3	calcium hypochlorite	✓
4	hydraulic lime	

Q.ŧ	Waste water from kitchens and bathrooms of residential buildings is called	
Ма	rks 1	Question ID: 1763
No	Options Details	Correct Option
1	sewage	
2	domestic effluent	
3	sullage	✓
4	sludge	

_	Sidage	
Q.5	In a facultative stabilisation pond, the sewage is treated by	
		Question ID:
Ma	rks 1	1764
	•	
No	Options Details	Correct Option
1	algae	
2	aerobic as well as anaerobic bacteria	✓
3	aerobic bacteria	
4	anaerobic bacteria	

Q.6	30	General standard of BOD for discharge of waste water into in land surface water is	
			Question ID:
Ma	rks	1	1765
No		Options Details	Correct Option
1	30 mg/L	max	✓
2	350 mg/l	_ max	
3	100 mg/l	_ max	
4	200 mg/l	_ max	

Q.6	31	Look at this series: 12, 11, 13, 12, 14, 13, What number should come next?	
Ма	rks	1	Question ID: 1766
No		Options Details	Correct Option
1	10		
2	15		
3	16		
4	13		✓

Q.6	Which word does NOT belong with the others?	
Ма	irks 1	Question ID: 1767
No	Options Details	Correct Option
1	index	
2	glossary	
3	chapter	
4	book	✓

Q.6	63 CUP : LIP :: BIRD : ?	
Ма	arks 1	Question ID: 1768
No	Options Details	Correct Option
1	GRASS	
2	FOREST	
3	BEAK	✓
4	BUSH	

Q.6	Q.64 An Informal Gathering occurs when a group of people get together in a casual, relaxed situation below is the best example of an Informal Gathering?	
Ма	rks 1	Question ID: 1769
No	Options Details	Correct Option
1	A debating club meets on the first Sunday morning of every month.	
2	After finding out about his salary raise, Jay and a few colleagues go out for a quick dinner after work.	<b>✓</b>
3	Meena sends out 10 invitations for a bachelorette party she is giving for her elder sister.	

## Q.65

Whenever she eats at a Chinese restaurant,

Roop seems to run into Divya.

The car dealer found that there was a tremendous response for the new XYZ's car booking with long queues of people complaining about the duration of business hours and arrangements. The best course of action would be:

- I. People should make their arrangement of lunch and snacks while going for car XYZ's booking and be ready to spend several hours.
- II. Arrangement should be made for more booking desks and increase business hours to serve more people in less time.

Marks 1 Question ID: 1770

No	Options Details	Correct Option
1	If only I follows	
2	If only II follows	✓
3	If either I or II follows	
4	If neither I nor II follows	

Q.66	Kevin, Joseph, and Nicholas are 3 brothers. If the following statements are all true, which of the youngest?

them is

- Kevin is the oldest.
- Nicholas is not the oldest.
- I Joseph is not the youngest.

Marks 1 Question ID:

No	Options Details	Correct Option
1	Joseph	
2	Kevin	
3	Nicholas	✓
4	Both Joseph ad Nicholas	

## Q.67 Statements:

- I. Importance of Yoga and exercise is being realized by all sections of the society.
- II. There is an increasing awareness about health in the society particularly among middle ages group of people.

Marks 1 Question ID: 1772

No	Options Details	Correct Option
1	Statement I is the cause and statement II is	
	its effect	
2	Statement II is the cause and statement I is	✓
	its effect.	
3	Both the statements I and II are independent	
	causes	
4	Both the statements I and II are effects of	
	independent causes	

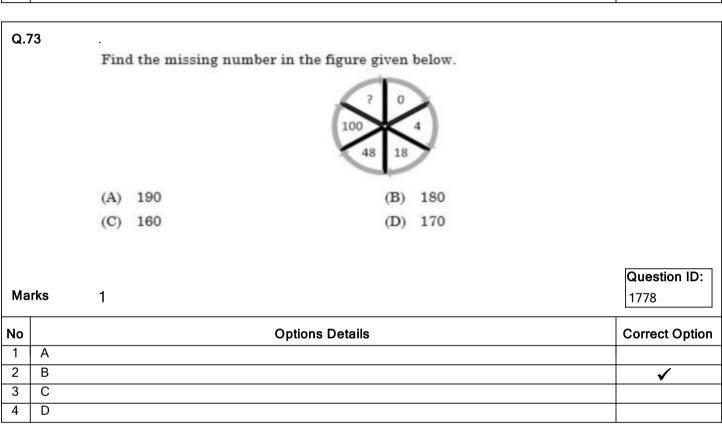
Q.68 Use the sentence: "A directory could not exist without ———." Find the word that fits in

Marks 1 Question ID: 1773

No	Options Details	Correct Option
1	telephone	
2	listing	
3	computer	
4	names	✓

Q.6	69	Six persons A, B, C, D, E and F are sitting in a circle. B is between F and C: A is between to the left of D. Who is between A and F?	een E and D: F is
Ма	ırks	1	Question ID: 1774
No		Options Details	Correct Option
1	В		
2	С		
3	D A		✓
	^		
Q.70		Some translations: 'krekinblaf' means workforce; 'dritakrekin' means groundwork ; 'kre workplace. Which word could mean "someplace"?	kinalti' means
Ма	ırks	1	Question ID: 1775
No		Options Details	Correct Option
1	moropalt		✓
3	krekindri altiblaf	ta .	
4	dritaalti		
	untaan		
Q.71 Two pipes A and B can fill a tank in 60 minutes. If pipe A alone can fill it in 75 minutes. Ho will the pipe B take to fill the tank alone?		How much time	
Ма	nrks	1	Question ID: 1776
No		Options Details	Correct Option
1	290 minu		
2	300 minu		✓
3	302 minu		
4	150 mint	nes	

Q.7	72	Use the correct verb form in the sentence; The Earth around the Sun.	
Ma	rks	1	Question ID: 1777
No		Options Details	Correct Option
1	move		
2	moves		✓
3	is movin	9	
4	moved		



Q.7	Mixed model of Emotional intelligence proposed by Goleman does not include			
Ма	rks 1	Question ID: 1779		
No	Options Details	Correct Option		
1	Self awareness			
2	Self regulation			
3	Apathy	✓		
4	Social skills			

Q.7	75	A response pattern in which test-takers systematically represent themselves with an e bias, is termed as	xcessive positive
Ма	rks	1	Question ID: 1780
No		Options Details	Correct Option
1	l	desirable responding (SDR)	✓
2	Faking b		
3		sponsiveness	
4	Social co	onfounding	
Q.7	76	An abusive social interaction between peers which includes aggression, harassment	, and violence, is
Ма	rks	1	Question ID: 1781
No		Options Details	Correct Option
1	Apathy		
2		response	
3	Victimiza	tion	
4	Bullying		✓
Q.7	77	Thinking itself cannot be directly observed. The process of thinking, therefore must be our	e inferred from
Ма	rks	1	Question ID: 1782
No		Options Details	Correct Option
1	Personal	lity	
2	Action		
3	Behaviou		✓
4	Feelings		

Q.7	.78 "Balance theory" was proposed by			
Ма	arks 1	Question ID: 1783		
No	Options Details	Correct Option		
1	Doob			
2	Leon Festinger			
3	Greenwald			
4	Heider	✓		
Q.7	.79 Which of the following is not the contributing factor for Quality of Life?			
Ma	arks 1	Question ID: 1784		
No	Options Details	Correct Option		
1	Physiological needs	Confect Option		
2	Safety needs			
3	Esteem needs			
4	Stressors	✓		
		,		
Q.8	.80 Who termed the body's response to stressors as- The General Adaptive arks 1	Question ID:		
No	Options Details	Correct Option		
1	Hans Selye	✓		
2	Sigmund Freud			
3	William James			
4	Albert Ellis			
Q.8	Q.81  The Story of My Experiments with Truth is an autobiography of			
Ма	arks 1	Question ID: 1786		
No	Options Details	Correct Option		
1	Mahatma Gandhi	✓		
2	Jawaharlal Nehru			
3	Aurubind Gosh			
4	Rabindranath Tagore			

Q.8	NATO stands for	
		Question ID:
Ма	rks 1	1787
No	Options Details	Correct Option
1	North American Treatment Organization	
2	National Audit Trends Office	
3	North Atlantic Treaty Organization	✓
4	National American Transport Office	

Q.8	The first woman President of India is	
Ма	irks 1	Question ID: 1788
No	Options Details	Correct Option
1	Indira Gandhi	
2	Pratibha Patil	✓
3	Vijaya Lakshmi Pandit	
4	Suchetha Krupalani	

Q.8	34	The number of states in India is	
Ма	rks	1	Question ID: 1789
No		Options Details	Correct Option
1	25		
2	27		
3	28		
4	29		✓

Q.8	35 The highest civilian award in India is	
	The Highest civilian award in India is	
Ma	rks 1	Question ID: 1790
No	Options Details	Correct Option
1	Bharat Ratna	✓
2	Padma Shri	
3	Padma Bhushan	
4	Padma Vibhushan	
Q.8	Mouna Ounth Mukhar Hriday is a novel written by	Question ID: 1791
No	Options Details	Correct Option
1	Indira Goswami	
2	Krishna Sharma	
3	Yeshe Dorjee Thongchi	✓
4	Chetan Swami	
Q.8	The capital of Chhattisgarh is	

Q.8	The capital of Chhattisgarh is	
Ма	rks 1	Question ID: 1792
No	Options Details	Correct Option
1	Bilaspur	
2	Raipur	✓
3	Raigarh	
4	Bastar	

1	Question ID: 1793
Options Details	Correct Option
5 years	
5 years	
5 years	
5 years	✓
E .	Options Details  5 years 5 years 5 years

Q.8	39	2024 Olympics are going to be held in	
Ма	ırks	1	Question ID: 1794
No		Options Details	Correct Option
1	France		✓
2	Greece		
3	Brazil		
4	Japan		

Q.9	National Library of India is located in	
Ма	ırks 1	Question ID: 1795
No	Options Details	Correct Option
1	New Delhi	
2	Mumbai	
3	Kolkata	✓
4	Chennai	

Q.91

Complete the given sentence selecting the appropriate alternatives from the given choices.

If he had been looking where he was going, -----

- (A) he would have walked into the wall.
- (B) he would not have walked into the wall.
- (C) he will not walk into the wall.
- (D) he may not walk into the wall.

Marks 1

Question ID: 1796

No	Options Details	Correct Option
1	A	
2	В	✓
3	С	
4	D	

Q.92

Sentence below can be improved by replacing a string of letters in the sentence with a more appropriate/correct string. Select an alternative from the given choices to replace bold-faced string of letters in the sentence.

I hear that you -----

- (A) are working in that office.
- (B) have working in that office.
- (C) have been working in that office.
- (D) can work in that office.

Marks 1

Question ID: 1797

No	Options Details	Correct Option
1	A	
2	В	
3	С	✓
4	D	

Q.93
------

Words in the question are arranged in random order. One of the four alternatives below each random word order provides the correct order of words to form a sentence. Select the alternative that provides the order for words to form a sentence.

the is in considered every one audience presentations seminar for

1 2 3 4 5 6 7 8 9 10

- (A) 5 9 6 4 7 3 2 1 10 8
- (B) 3 1 4 2 5 8 10 6 9 7
- (C) 1 7 6 5 4 3 9 2 10 8
- (D) 5 6 3 1 7 2 4 10 9 8

# Marks 1 Question ID: 1798

No	Options Details	Correct Option
1	A	
2	В	
3	С	
4	D	✓

#### Q.94

Read the sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer.

Once he realises (1) that he commits (2) a mistake he admits and (3) corrects it without delay. (4).

(A) 1

(B) 2

(C) 3

(D) 4

Marks

Question ID: 1799

No	Options Details	Correct Option
1	A	
2	В	✓
3	C	
4	D	

Q.9	95			
		Select the word from the give	en options that best describes the same mea	ning as
		the given word		
		SPORADIC		
		(A) Occasional		
		(B) Scattered		
		(C) Frequent		
		(D) Irksome		
				Question ID:
Ма	arks	1		1800
No		Ol	otions Details	Correct Option
1	Α			✓
2	В			
3	С			
4	D			
Q.9	96			
		Select the word from the give to the given word.	en options that best describes the meaning o	pposite
		COVERT		
		(A) Inexplicable	(B) Unjustifiable	

Ма	irks 1	Question ID: 1801
No	Options Details	Correct Option
1	A	
2	В	
3	С	✓
4	D	

(C) Obvious

(D) Flimsy

Q.S	97		
		Select the option that best describes the meaning of the given Idiom/ Phrase	
		Nerves of steel	
		(A) Courage (B) Analyse	
		(C) Strong nerves (D) Careful observation	
Ma	rks	1	Question ID: 1802
<b>No</b>	Α	Options Details	Correct Option
2	В		✓
3	С		
4	D		
Q.9	98		
		Select the option that best describes the meaning of the given Idiom/ Phrase	
		A N	
		A bone of contention	
		(A) An interesting issue (B) A matter of satisfaction	
		(C) A long bone (D) A subject of argument	
			Question ID:
Ма	rks	1	1803
No	^	Options Details	Correct Option
2	A B		
3	С		
4	D		<b>✓</b>
			i i
Q.9	99		
		Select the correct alternative to fill up the blank in the following sentence.	
		The country needs a ———— government to tackle the challenges it faces today	-
		(A) Sustained (B) Stagnant	
		(C) Stationary (D) Stable	
			Question ID:
Ма	rks	1	1804
<b>No</b>	A	Options Details	Correct Option
	_ ^		
	В		
2	В		
2			<b>✓</b>

Q.100

One word in the group of four words below is an odd word that does not go with the group. Select the alternative to pick the odd one out.

Pick the odd one out

(A) Steward (B) Tradesman

(C) Wicket (D) Player

Question ID:

1805

No	Options Details	Correct Option
1	A	
2	В	
3	С	✓
4	D	