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AP GRAMA/WARD SACHIVALAYAM GRAND TEST – 3 **GROUP A**

MARKS: 150 No. of Questions: 150 Time: 150 Minutes (-)tive marks: 0.25

1. The speed of a boat in still water is 9 km/h. A boat goes 72 km and back to its starting point in 18 hours. Find the speed of stream?

(a) 3 km/hr

(b) 4 km/hr

(c) 5 km/hr

(d) 6 km/hr

2. Rs. 500 is divided among A, B, C in such a way that Rs. 16 more 2/5 of A's share, Rs. 70 less than 3/4 of B's share, and Rs. 4 less than 3/5 of C's share are equal. Find B's share.

(a) Rs. 300 (b) Rs. 400(c) Rs. 100 (d) Rs. 200

3. A reduction of 20% in the price of Rice enables a Purchase to obtain 8kg more Rice for Rs. 160. Then the price per kg before reduction was

(a) 5 per kg

(b) 6 per kg

(c) 7 per kg

(d) 8 per kg

4. A man can row at a speed of $4\frac{1}{2}$ km/hr in still water. If he takes 2 times as long to row a distance upstream as to row the same distance in downstream, then, the speed of stream (in km/hr) is

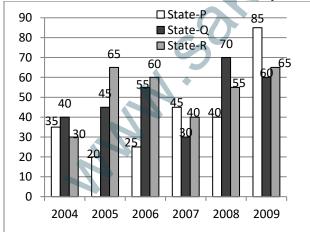
(b) 1.5

(c) 2

5. The area of a rhombus having one side 10 cm and one diagonal 12 cm is

(a) 48 cm^2 (b) 96 cm^2 (c) 144 cm^2 (d) 192 cm^2 **Directions (6-8):** Study the following graphs carefully to answer the questions that follow.

Number of Candidates (in thousands) who qualified in an exam in three different states in six different years



Total number of candidates who qualified in the exam in the year 2004 and 2005 together from state Q was approximately what percentage of total number of candidates who qualified in the exam from all the states together in the year 2008?

(a) 61

(b) 65

(c) 79

(d) 52

7. What was the respective ratio between the number of candidate who qualified in the exam from state - R in the year 2008 and the number of candidates who qualified in the exam from state - P in the year 2004?

(a) 11:10 (b) 9:11 (c) 11:7 (d) 11:9

8. If 40 per cent of the candidates who qualified in the exam from state- P in the year 2009 were females then what was the sum of number of male candidates who qualified from State - P in the year 2009 and the total number of candidates who qualified in the exam from state - Q in the year 2009?

(a) 1,11,000

(b) 1.01.000

(c) 93,000

(d) 1,21,000

9. If "S" denotes "multiplied by", "V" denotes "subtracted from", "M" denotes "added to" and "L" denotes "divided by", then 7 V 42 M 56 L 8 S 5 = ?

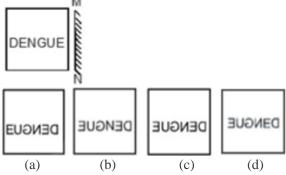
(a) 8

(b) 12

(c) 20

(d) 0

10. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

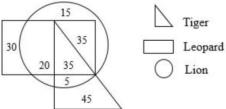


11. Mohan, Ritika, Janvi, Priya and Riya are friends. Janvi runs faster than Ritika but slower than Priya. Mohan is the slowest runner and Riya runs faster than Priya. Who runs the fastest among the five?

(a) Priva

(b) Riya (c) Ritika (d) Mohan

12. The diagram represents the likes of children in a society.



The difference between children who like leopard to those who like tiger is

(a) 50

(b) 35

(c) 30

(d) 5

13. Which answer figure will complete the water sakstried ucation sixtim (b) Bihar (c) Assam (d) Odisha question figure? 22. How many sustainable development goals are there (a) 17 (b) 26 (c) 16 (d) 15 **23.** It is more comfortable to wear white cloths in summer because (a) they reflect heat falling on them. (b) they radiate heat tansferred from the body. (c) they absorb perspiration. (d) they are soothing to the eye 24. The pyramid of energy in any ecosystem is a) Always upright b) May be upright or invented c) Always inverted d) None of the above 25. An ecosystem must have continuous external source (c) **Directions (Q. No. 14):** In the following questions a blank a) minerals b) energy c) food d) All of the above has been given in a sentence. And it is followed by four **26.** In which place people revolted against English against options namely a, b, c and d. One of the options fills up the their forest policies in 1879 blank. Choose the appropriate option. (a) Rekapalli (b) Nadigudem ____ lunch we had at your marriage was (c) Chinturu (d) Sileru 27. Which organization took active part in organizing superb. Bipin Chandra Pal's tour of Rajahmundry (c) an (d) No article (a) a (b) the (a) Balabharati Samithi (b) Surabharathi Samithi **Direction (Q. no. 15):** In the following question a idiom is (c) Youngmen's association given. And it is followed by four options namely a, b, c and (d) Rajahmundry Students association d. One of the options gives the meaning of the idiom. Choose **28.** Which Newspaper strongly supported the Home Rule the appropriate option. Movement in Andhra **15.** To grease the palm (a) Andhra Matha (b) Bharata Matha (b) To reject (a) To bribe (c) Teja (d) Desha Matha **29.** Who among the following visited the Palnadu area in (c) To maintain (d) To hold July 1921 to study the situation arising out of agitation **Direction (Q. No. 16):** In the following a paragraph has against forest laws been jumbled. After keeping it in order attempt the (a) Vedam Venkatachari (b) Ramadas Pantulu appropriate option that makes sense and keep the paragraph (c) Unnava Lakshminarayana (d) Swamy Sitaram in a proper order. **30.** In the elections held to the Madras Legislative **16.** (A) He borrowed some money from his neighbor for me Assembly in 1920, how many seats were won by the (B) However, he promised to get the money I needed justice party (a) 63 (b) 64 (c) 65 (d) 66 (C) Since I had no money with me, I decided to borrow **31.** Who among the following wrote the Novel from my friend 'Asamarthuni Jeevitha Yatra' (D) The electricity bill had to be paid immediately (a) N.G. Ranga (b) Sri Sri (E) But, he had no money with him to lend me (c) K. Linga Raju (d) T. Gopichand (b) c e b a d (a) c d a b e **32.** In which year the socialist party established its Andhra (d) d c e b a (c) a b c d e Branch 17. The 'Dadasaheb Phalke Award' is India's highest award (a) 1930 (b) 1931 (c) 1932 (d) 1934 **33.** Which Telugu Newspaper commented "unless there is in which of the following fileds? a separate government there is no protection for Telugu (a) Sport (b) Business (c) Science (d) Cinema 18. Chandrayaan-2, India's second mission to the Moon will People's Culture" (a) Desha Bhasha (b) Lokamanjari be launched by the launch vehicle (b) GSLV-II (c) Desabhimani (d) Shasirekha (a) PSLV-XL **34.** Who among the following opposed separate state for (c) GSLV-Mk III (d) RLV-TD Andhras once he became Chief Minister of Madras 19. With which country did India hold high-level talks in State in 1932 July 2019 to elevate bilateral cooperation in the field of space, including assistance in India's 'Gaganyaan' (a) P. Ramarayanin Garu (b) P. Subbarayan (c) K.V. Reddy Naidu (d) Bobbili Raja mission? 35. In which place in 1935, the second Rayalaseema (a) Japan (b) Russia (c) China (d) Indonesia Mahasabha passed a resolution opposing separate **20.** 'Game Changer' is the autobiography of which of the Andhra State following cricketers? (a) Kadapa (b) Kurnool (a) Shane Watson (b) Shahid Afridi (c) Tirupathi (d) Anantapur (c) Lasith Malinga (d) Chris Gayle 21. Longest serving Chief Minister of any state Pawan Kumar Chamling lost after 25 years. He was the Chief Minister of which state?

- 36. The agreement between Andhra and Rayahanansakshieducation Actions 4 to 8 (d) Articles 3 to 8 leaders was made in 1937 at the residence of Kasinathuni Nageshwar Rao known as Sribagh pact. evolution? Where is Sribagh
 - (a) Vijayawada
- (b) Guntur
- (c) Madras
- (d) Bangalore
- **37.** In 1948 which Commission, in its report opined that creation of linguistic states is a threat to unity and integrity of the country
 - (a) J.V.P. Report
- (b) Dhar Commission
- (c) Krishnamachary Commission
- (d) Wanchoo Commission

38. The doctrine of "Paramountcy" is a legal principle:

- (a) To reconcile conflicting laws where both central government and provincial governments have the power to create laws in relation to the same matter
- (b) To explain the law making authority of the government
- (c) To provide law making authority to the central government
- (d) To explain law making authority of the country
- 39. With regard to officers of all India services, choose the correct answer from the following
 - (a) A member of an all India Service can be dismissed or removed only by the Union government
 - (b) A member of an all India service can be dismissed or removed by the state government also if he/se is serving under that state
 - (c) In India, state government employees administer state laws only
 - (d) Union government administer union laws through its departments only
- **40.** Regarding the amendment of the constitution all following statements are correct, except
 - (a) According to Article 368, parliament of India can amend any part of the constitution
 - (b) Article 2 of the constitution empowered the parliament of India to admit new states into the Union
 - (c) With reference to Article 2 or 3, the amendment of the provisions of FIRST and FOURTH schedule shall not be deemed to be an amendment of the constitution for the purpose of Article 368
 - (d) The territories of the units of the federation may be altered or re-distributed by the parliament without intimation to the states
- 41. Whit regards to fundamental rights, all statements below are correct, except
 - (a) Article 15 is for citizens only
 - (b) The right reserved for citizens are denied to the
 - (c) Aliens are divided into friendly aliens and enemy aliens
 - (d) Indian constitution shows no difference between friendly aliens and enemy aliens
- **42.** Which of the following articles of the Indian constitution explain about the citizenship?
 - (a) Articles 5 to 8
- (b) Articles 6 to 8

- **43.** Which of the following is not the supreme court's
 - (a) Basic structure (b) Public interest litigation
 - (c) Removal of hand cuffs
 - (d) Exemptions to fundamental rights
- **44.** Which of the following groups of countries is arranged in descending order of area?
 - (a) Russia, Canada, China, U.S.A.
 - (b) Russia, U.S.A., Canada, China
 - (c) Russia, Canada, U.S.A., China
 - (d) Russia, China, U.S.A., Canada
- 45. Sierra Nevada is the name of
 - (a) An animal of America
 - (b) A disease found in America
 - (c) A fruit found in America
 - (d) A mountain in America
- 46. Which of the following is not a coal filed?
 - (a) Raniganj (b) Umaria (c) Mosabani (d) Korba
- **47.** The Radcliffe Line is the international border between
 - (a) India and Pakistan
- (b) India and China
- (c) Indian and Bangladesh
- (d) India and Nepal
- **48.** What is Durand Line?
 - (a) Boundary line between Afghanistan and Pakistan
 - (b) Boundary line between India and Pakistan
 - (c) Boundary line between India and China
 - (d) Boundary line between India and Burma
- **49.** Which of the following will never get the vertical rays of the sun?
 - (a) Srinagar (b) Mumbai
 - (c) Chennai (d) Thiruvananthapuram
- **50.** What is Durand Line?
 - (a) Boundary line between Afghanistan and Pakistan
 - (b) Boundary line between India and Pakistan
 - (c) Boundary line between India and China
 - (d) Boundary line between India and Burma
- **51.** In case of laminar flow, the
 - (a) flow is irregular
 - (b) losses are of prime importance
 - (c) Reynold's number lies between 2000 to 3000 for pieces
 - (d) Newton's law of viscosity is of importance
- **52.** In lathe, the carriage and tail stock are guided on.....
 - (a) Same guideways
 - (b) Different guideways
 - (c) Any of the above
 - (d) Not guided on guideways
- **53.** Which one of the following is the correct expression to estimate the development length of deformed reinforcing bar as per IS code in limit state design?
 - (a) $\frac{\phi \sigma_s}{4\tau_{bd}}$
- (b) $\frac{\phi \sigma_s}{4.5 \tau_{bd}}$
- $(c) \frac{\phi \sigma_{s}}{6.4 \tau_{bd}}$
- **54.** Fly leveling is carried out from a point 1 having R.L 560.5 to point 2. If $\Sigma BS = 6.475$ and $\Sigma F.S = 8.565$, R. L of point 2 is
 - (a) 562.59 (b) 558.41 (c) 563.90 (d) 557.50
- **55.** Parkerizing process is......
 - (a) zinc diffusion process
 - (b) An oxidising process used for aluminium and magnesium articles

- (c) A process used for making thin phosphythy was states thie ducation. Example can be welded to thicker pieces by steel to act as a base or primer for enamels and paints ultrasonic welding (d) Is the process of coating of zinc by hot dipping 3. Ultrasonic welds contain foreign inclusions **56.** Liquids transmit pressure equally in all direction and at 4. Post cleaning of welds is necessary in ultrasonic right angle to the surface exposed. This statement known as (a) Bernoulli's theorem (b) Archimedes' principle
- (d) Principle of floatation (c) Pascal's law **57.** A square column section of size 350 mm \times 350 mm is reinforced with four bars of 25 mm diameter and four bars of 16 mm diameter. Then the transverse steel should be
 - (a) 5 mm dia @240 mm c/c
 - (b) 6 mm dia @250 mm c/c
 - (c) 8 mm dia @250 mm c/c
 - (d) 8 mm dia @350 mm c/c
- **58.** The simplest resultant of a spatial parallel force system is always
 - (b) a force (a) a wrench
 - (d) a force and moment (c) a moment
- **59.** The deformation of a bar under its own weight as compared to that when subjected to direct axial load equal to its own weight will be
 - (a) the same (b) one fourth (c) half (d) double
- **60.** A rigid body is in equilibrium. Given that the moment of all the forces acting on the body about some axis is zero and also given that forces are concurrent, implies
 - (a) the resultant force is zero
 - (b) the forces have a line of action passing through the
 - (c) the resultant forces have a line of action parallel to the axis
 - (d) any of (a), (b), (c) can be true
- 61. A body is acted upon by a force system. It can in general to brought to equilibrium by the application of
 - (a) a force acting on a suitable point on the body
 - (b) a force acting anywhere along a suitable line
 - (c) a force acting along a suitable line and a moment along the direction of the force
 - (d) a wrench acting anywhere on the body.
- **62.** Which process squeezes metals into peaks and troughs with plastic deformation?
 - (a) Grooving
- (b) Knurling
- (c) Reaming
- (d) None of the above
- **63.** According to principle of floatation, the weight of liquid displaced as compared to the weight of the body is
 - (a) more (b) less
 - (c) same (d) depending upon the shape of the body
- **64.** In a Pedestal, the factor by which the effective length should not exceed the least lateral dimension is
 - (d) 5(c) 4 (a) 2 (b) 3
- **65.** A solid uniform metal bar of diameter D and length L is hanging vertically from its upper end. The elongation of the bar due to self weight is
 - (a) Proportional to L and inversely proportional to D²
 - (b) Proportional to L² and inversely proportional to D²
 - (c) proportional to L but independent of D
 - (d) Proportional to L² but independent of D
- **66.** Which of the following statements are true for ultrasonic welding?
 - 1. Productivity of ultrasonic welding is high

- 5. Preparation required for ultrasonic welding process is very little
- (a) (1), (2) and (4)
- (b) (2), (3) and (4)
- (c) (1), (3) and (5)
- (d) (1), (2) and (5)
- 67. The centre of volume and centre of mass of a body coincide.
 - (a) if and only if the body is of uniform density
 - (b) if the body is geometrically symmetrical about the centre of mass.
 - (c) if the density variation is symmetrical about the centroid.
 - (d) if and only if the body is made homogeneous material
- **68.** A body can be made to float by
 - (a) decreasing its volume
 - (b) increasing its weight
 - (c) decreasing both its volume and weight
 - (d) increasing the volume of the body, weight remaining the same
- **69.** A masonry wall has height 'h', length L and thickness 't'. The allowable stress based on slenderness is calculated on the basis of
 - (a) h/t only
- (b) L/t only
- (c) lesser of L/t and h/t (d) greater of L/t and h/t
- 70. The Poisson ratio of a material which has Young's modulus of 120 GPa and shear modulus of 50 GPa, is (a) 0.1 (b) 0.2 (c) 0.3 (d) 0.4
- **71.** The position of gear cutter on the arbor for rack milling
 - (a) Nearer to the column
 - (b) Nearer to the arbor support
 - (c) At the middle
 - (d) At any point on the arbor
- **72.** The first moment of area of a semicircular area about its diameter d is given by
 - (a) $d^3/12$
- (b) $d^3/24$
- (c) $d^3/6$ (d) $d^3/36$
- **73.** Match List-I with List-II and select the correct answer using the codes given below the lists:

List-I

- A. Moment and shear coefficients
- B. Fire resistance
- C. Sliding
- D. Span to depth ratio of beam

List-II

- 1. Durability
- 2. Stability
- 3. Analysis of structure
- 4. Deflection limits
- (a) A-4, B-2, C-1, D-3
- (b) A-3, B-2, C-1, D-4
- (c) A-4, B-1, C-2, D-3
- (d) A-3, B-1, C-2, D-4
- 74. If E, G and K denote Young's modulus, modulus of rigidity and Bulk Modulus, respectively, for an elastic material, then which one of the following can be possible true for certain value of Poisson's ratio?
 - (a) G = 2K (b) G = E (c) K = E (d) G = K = E

75. The hydraulic mean depth for a pipe running staken field to the staken with a wrong scale can be water is equal to corrected by using the relation (a) True length = $\frac{\text{Correct scale}}{\text{Wrong scale}} \times \text{measured length}$ (a) d/2(b) d/4(c) 2d (d) $2\pi d$ 76. In a green sand moulding process, uniform ramming (b) True length = $\left(\frac{\text{Correct scale}}{\text{Wrong scale}}\right)^2 \times \text{measured length}$ leads to (c) True length = $\left(\frac{\text{Correct scale}}{\text{Wrong scale}}\right)^3 \times \text{measured length}$ (a) Less chance of gas porosity (b) Uniform flow of molten metal into the mould cavity (c) Greater dimensional stability of the casting (d) None of these (d) Less sand expansion type of casting defects _ is a phenomenon by which a liquid rises into a 77. What is parallel axis theorem and to whom it is applied? thin glass tube above or below its general level. (a) Theorem used to add the two mutually perpendicular (a) Surface tension (b) Capillarity moment of inertias for areas (c) Cohesion (d) Adhesion (b) Theorem used to add the two mutually perpendicular 88. The bending moment (M) is constant over a length moment of inertias for volumes segment l(I) of a beam the shearing force will also be (c) Theorem used to add the two mutually perpendicular constant over this length and is given by moment of inertias for linear distances (a) M/I (b) M/2I (c) M/4I (d) None of the above

(d) Theorem used to add the two mutually perpendicular moment of inertias for vectors

78. A real practical fluid possesses which of the following? (a) Viscosity (b) Surface tension

(c) Density (d) All of these

79. At what stress does the first flexural crack appear in RRC beams made of M25 grade concrete?

(a) 3.0 MPa (b) 3.5 MPa (c) 4.0 MPa (d) 4.5 MPa

80. Consider the following statements:

If at a section distant from one of the ends of the beam, M represents the bending moment V the shear force and w the intensity of loading, then

1. dM/dx = V

2. dV.dx = w

3. dw/dx = y

(the deflection of the beam at the section)

Which of these statements are correct?

(a) 1 and 3 (b) 1 and 2 (c) 2 and 3 (d) 1, 2 and 3

- 81. If the non-Uniform loading is of the type of parabola then for calculating the moment of inertia for areas?
 - (a) The net load will not be formed as all the forces will be cancelled
 - (b) The net force will act the centre of the parabola
 - (c) The net force will act on the base of the loading horizontally
 - (d) The net force will act at the centroid of the parabola
- **82.** The viscosity of liquid _____ with increase in temperature.
 - (a) decreases
- (b) increases
- (c) Both (a) and (b) (d) None of these
- **83.** Which of the following scales is the largest one?

(a) 1 cm = 50 m (b) 1:42000

(c) RF = $\frac{1}{300000}$

(d) 1 cm = 50 km

- 84. In solidification of metal during casting, compensation for solid contraction is
 - (a) Provided by the oversize pattern
 - (b) Achieved by proper placed risers
 - (c) Obtained by promoting directional solidification
 - (d) Made by provision of chills
- 85. In the calculation of the radius of gyration, we use intensity of loadings. So whenever the distributed loading acts perpendicular to an area its intensity varies
 - (a) Linearly
- (b) Non-Linearly
- (c) Parabolically
- (d) Cubically

- **89.** The primary purpose of sprue in a casting mould is to (a) Feed the casting at a rate consistent with the rate of solidification
 - (b) Act as a reservoir for molten metal
 - (c) Feed molten metal from the pouring basin to the gate
 - (d) Help food the casting until all solidification takes
- 90. The metacentric height of battle ships is

(a) 0.3 m to 0.8 m (b) 1.0 m to 1.5 m

(c) 2.5 m to 3.5 m (d) 5.0 m to 6.0 m

91. The lines used to create the auxiliary view should appear _ in the finished view.

(a) Object lines

- (b) Construction lines
- (c) Reference lines
- (d) Construction lines
- **92.** A lien joining some fixed points on the main survey lines is known as

(a) Base line

(b) Check line

(c) Contour line (d) Tie line

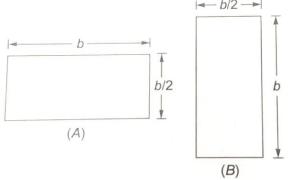
- **93.** In which of the following are metal moulds used:
 - (a) Green sand mould
- (b) Dry sand mould
- (c) Die casting process (d) Loam moulding
- **94.** In order to avoid separation in venturimeter the angle of divergence is kept

(a) 10° to 15° (b) 15° to 20°

(c) 5° to 7°

(d) 7° to 10°

95. A beam cross-section is used in two different orientations as shown in the figure given below:



Bending moments applied to the beam in both cases are same. The maximum bending stresses induced in cases (A) and (B) are related as

- (a) $\sigma A = \sigma B$
- (b) $\sigma A = 2\sigma B$
- (c) $\sigma A = \frac{\sigma_B}{2}$
- (d) $\sigma A = \frac{\sigma_B}{\Delta}$

(a) Slush casting (b) Squeeze casting	109. Match list I (welding problems) with list II (causes) and
(c) Centrifugal casting (d) Investment casting 98. The principle reason for using an auxiliary view is	select the correct answer using the codes given below
76. The principle reason for using an auxiliary view is	the lists: List I (Welding problems)
(a) to eliminate hidden lines	A. Cracking of weld metal
(b) to create a true projection plane from an inclined	B. Cracking of base metal
plane in one of the primary views	C. Porosity
(c) to show cylinders as ellipses	D. Inclusion
(d) to locate center marks	List II (Causes)
99. The head loss due to turbulence flow as compared to	1. Excessive stress
laminar flow is	2. High joint rigidity
(a) less (b) more (c) equal (d) unpredictable 100. The area of a plot to be surveyed is about 1200.0 km ² ,	3. Failure to remove slag from previous deposit
the most suitable method is	4. Oxidation 5. Excessive H ₂ , O ₂ and N ₂ in the welding atmosphere
(a) compass (b) tacheometric	(a) A-2, B-1, C-5, D-3 (b) A-3, B-4, C-2, D-1
(c) geodetic (d) plane table	(c) A-2, B-4, C-5, D-3 (d) A-3, B-1, C-4, D-2
101. The electrode used in arc welding are coated	110. Two pumps can operate independently at heads H ₁ , H ₂
electrodes. The coating is not expected to	and discharges Q_1 , Q_2 , respectively. If the pumps are
(a) Provide protective atmosphere to weld	connected in parallel, then what are the resulting
(b) Stabilise the arc	discharge (Q) and head (H)?
(c) Add alloying elements(d) Prevent electrode from contamination	(a) $Q = Q_1 + Q_2$, $H = H1 + H_2$
102. This type of surface is tipped to all principal planes of	(b) $Q = Q_1 - Q_2$, $H = H1 - H_2$ (c) $Q = Q_1 = Q_2$, $H = H1 = H_2$
projection and does not appear true size in any standard	(d) $Q = Q_1 + Q_2$, $H = H1 = H_2$
view:	111. This is the plane upon which the top view is projected:
(a) Foreshortened (b) Parallel	(a) Horizontal (b) Frontal
(c) Orthographic (d) Oblique	(c) Profile (d) Base
103. Consider the following statements:	112. In arc welding process, the voltage and current are 25
1. Piezometer is used to measure small variation of	V and 300 A respectively. The arc heat transfer
pressure above ambient pressure. 2. Thixotropic fluid exhibits decrease in viscosity with	efficiency is 0.85 and welding speed is 8 mm/s. The net heat input (in J/mm) is
time.	(a) 62 (b) 797 (c) 1103 (d) 79700
Which of the above statements is/are correct?	113. If s is the sum of the three angles of a spherical triangle,
(a) Only 1 (b) Only 2	the spherical excess equals
(c) Both 1 and 2 (d) Neither 1 nor 2	(a) s-90° (b) s-180° (c) 180° -s (d) 270° -s
104. The required slope correction for a length of 60 m	114. What is the unit of dynamic viscosity of a fluid termed
along a gradient of 1 in 20 is (a) 0.75 cm (b) 5.5 cm (c) 7.5 cm (d) 75cm	'poise' equivalent to?
105. Consider the following statements:	(a) dyne/cm ² (b) gs/cm (c) dyne s/cm ² (d) g-cm/s
The size of heat affected zone (HAZ) will increase with	115. If $E = \text{elasticity modulus}$, $I = \text{moment of inertia about}$
1. Increased starting temperature	the neutral axis and $M = $ bending moment in pure
2. decreased welding speed	bending under the symmetric loading of a beam, the
3. decreased thermal conductivity of base metal	radius of curvature of the beam:
4. Increase in base metal thickness Which of the statements given shows are correct?	1. Increase with E 2. Increases with M
Which of the statements given above are correct? (a) 1, 2 and 4 (b) 1, 2 and 3 (c) 1 and 3 (d) 2 and 3	3. Decreases with I 4. Decreases with M
106. In the case of beams with circular cross-section, what	Which of these are correct? (a) 1 and 3 (b) 23 and 3 (c) 3 and 4 (d) 1 and 4
is the ratio of the maximum shear stress to average shear	116. If a solid is positioned that its axis is perpendicular to
stress?	one of the reference plane. Which of the following is
(a) $3:1$ (b) $2:1$ (c) $3:2$ (d) $4:3$	false?
107. Match List I with List II and select the correct answer	(a) Axis is parallel to other reference plane
using the codes given below the lists.	(b) Base is parallel to reference plane
List I List II A. Lubrication 1. Capillary	(c) Projection on that plane gives true shape of its base
B. Rise of sap in trees 2. Vapour pressure	(d) Base is perpendicular to reference plane
C. Formation of droplets 2. Vapour pressure 2. Vapour pressure 3. Viscosity	
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4. Surface tension

(d) $1\sqrt{L}$

(a) A-2, B-4, C-1, D-3 (b) A-3, B-4, C-1, D-2

(c) A-2, B-1, C-4, D-3 (d) A-3, B-1, C-4, D-2

(c) \sqrt{L}

proportional to

(b) 1/L

(a) L

108. Cumulative errors that occur in chaining are

96. Length of line measured with a 20 m chainwaw sankshie ducation Countion

be 634.4m, if the chain was 5 cm too long, throughout the measurement, then the true length of the line is:

(b) 635.986 m

(d) 632.814 m

(a) 646.990 m

(c) 638.818 m

97. An expendable pattern is used in

117. The fore bearings of the sides of a triangle www. Sakshie and 270° respectively. The triangle is (a) a right-angled (b) an equilateral	ducation from $250 \frac{b^2}{}$ (b) $60b \text{ or } \frac{100b^2}{}$
and 270° respectively. The triangle is	d (b) 000 01 -d
(a) a right-angled (b) an equilateral	(c) 25b or $250\frac{b^2}{1}$ (d) 25b or $100\frac{b^2}{1}$
(c) an isosceles (d) an obtuse angled	125. While transmitting the same power by a shaft, if its
118. Match List I with List II and select the correct answer	speed is doubled, what should be its new diameter if the
using the codes given below the lists.	maximum shear stress induced in the shaft remains
List I (Variable)	same?
A. Dynamic viscosity	
B. Moment of momentum	(a) $\frac{1}{2}$ of the original diameter
C. Power	(b) $\frac{1}{\sqrt{2}}$ of the original diameter
D. Volume modulus of elasticity	(c) $\sqrt{2}$ of the original diameter
List II (Dimensional expression)	. =
1. $[ML^2T^{-3}]$	$(d) \frac{1}{(2)^{1/3}}$ of the original diameter
2. [ML ⁻¹ T ⁻²]	126. The velocity of a water stream is being measured by a
3. [ML ⁻¹ T ⁻¹]	L-shaped pitot-tube and the reading is 20 cm. Then,
4. $[ML^2T^{-2}]$	what is the approximate value of velocity?
5. [ML ² T ⁻¹]	(a) 196 m/s (b) 2 m/s (c) 98 m/s (d) 20 m/s
(a) A-1, B-4, C-2, D-3 (b) A-3, B-5, C-1, D-2	127. A reinforced concrete member is subjected to
(c) A-1, B-5, C-2, D-3 (d) A-3, B-4, C-1, D-2	combined action of compressive axial force and bending
119. Which one of the following welding processes consists	moment. If ε_c is the least compressive strain in the
of minimum heat affected zone [HAZ]	member, f _y , the yield stress of steel and, E _s , the modulus
(a) Shielded metal arc welding	of elasticity of steel, the maximum permissible
(b) Laser beam welding	compressive strain in concrete member will be
(c) Ultrasonic welding	(a) 0.002 (b) $0.002 + f_y/(1.15Es)$
(d) Metal inert gas welding	(c) $0.0035 - 0.75\varepsilon_c$ (d) 0.0035
120. Which one of the following is the correct statement?	128. Consider the following statements regarding a path line
Streamline, path line and streak line are identical when	in fluid flow
the	1. A path line is a line traced by a single particle over a
(a) flow is steady	time interval.
(b) flow is uniform	2. A path line shows the positions of the same particle at
(c) flow velocities do not change steadily with time	successive time instants.
(d) flow is neither steady nor uniform	3. A path line shows the instantaneous positions of a
121. When the axis of solid is parallel to H.P &V.P, then	number of particles, passing through a common point, at
view should be drawn first and and	some previous time instants.
view then projected from it.	Which of the statements given above are correct?
(a) front, top, side (b) top, side, front	(a) 1 and 3 (b) 1 and 2 (c) 2 and 3 (d) 1, 2 and 3
(c) side, front, top (d) top, front, side	129. The magnetic bearing of a line is S38°30'W and
122. In the design of two-way slab restrained at all edges,	magnetic declination is 4°30'W. Calculate the true
torsional reinforcement required is	bearing.
(a) 0.75 times the area of steel provided at mid-span in	(a) S 43° W (b) S 34° W (c) S 47° W (d) S 56° W
the same direction	130. Beam sections designed in accordance with LSM as
(b) 0.375 times the area of steel provided at mid-span in	compared to sections designed in accordance with WSM
the same direction	will have
(c) 0.375 times the area of steel provided in the shorter	(a) larger depth and smaller amount of reinforcement
span	(b) same depth and same reinforcement
(d) nil	(c) smaller depth and more reinforcement
123. Match List I with List II and select the correct answer	(d) same depth as that of a deep beam
using the codes given below the lists.	131. When a plane surface is inclined to any plane of
List I (Condition)	projection, the view of the plane surface projected on it
A. Existence of stream function	will be its
B. Existence of velocity potential	(a) point shape
C. Absence of temporal variations	(b) true shape
D. Constant velocity vector	(c) straight line
List II (Regulating Fact)	(d) apparent shape
1. Irrotationality of flow	132. If the Back bearing of a line is 36°15' its Fore bearing
2. Continuity of flow	will be
3. Uniform flow	(a) 36°15' (b) 126°15' (c) 143°45' (d) 216°15'
4. Steady flow	133. The pressure drop for a relatively low Reynolds
(a) A-4, B-3, C-2, D-1 (b) A-2, B-1, C-4, D-3	number flow in a 600 mm, 30 m long pipeline is 70 kPa.
(c) A-4, B-1, C-2, D-3 (d) A-2, B-3, C-4, D-1	What is the wall shear stress?
124. In case of simply supported beam, the clear distance	(a) 0 (b) 350 Pa (c) 700 Pa (d) 1400 Pa
between lateral restraints shall not exceed	(1) 1 (1) 111 (1) (1) (1) (1) (1)

134. When a plane is perpendicular to a reference space spice	ducaten loging (b) reversing
projection on that plane is a	(c) transiting (d) any one of the above
(a) straight line (b) true line	143. A deep continuous beam has effective depth of 500 mm
(c) apparent line (d) point	and effective cover of 50 mm. Its maximum effective
135. Which one of the following statements about the	length is
percentage of tensile steel required to produce a	(a) 1375 mm
balanced reinforced concrete section is correct?	(b) 1100 mm
The required percentage of steel	(c) 1275 mm
(a) Reduces as the yield strength of steel increase	(d) Cannot be determined from the given data
(b) Remains unchanged irrespective of the yield strength	144. The velocity component after striking the surface will
of steel	be
(c) Is the same for a given quality of steel irrespective of	(a) One
whether working stress method is followed or ultimate	(b) Zero
load method is used	
	(c) Infinity
(d) Is only a function of the modulus of elasticity of	(d) Negative
steel.	145. An implication of Newton's law is that
136. The free-body diagram of a satellite rotating about the	(a) the total momentum (linear + angular) of the body is
earth will show the satellite isolated from its	conserved
surroundings and	(b) the linear and angular momentum of the body are
(a) no force acting on it	conserved separately
(b) its velocity shown on it	(c) only the linear momentum of the body is conserved
(c) the force of gravity and centrifugal force acting on it	(d) a rigid body will tend to rotate if a force is applied at
(d) only the force of gravity acting on it	a point other than the centre of mass of the body
137. An oil of specific gravity 0.9 has viscosity of 0.28 stoke	146. Auxiliary planes are oftypes.
at 38°C. What will be its viscosity in N-s/m ² ?	(a) two (b) one (c) three (d) six
(a) 0.2520 (b) 0.0311 (c) 0.0252 (d) 0.0206	147. A beam of rectangular cross-section ($b \times d$) is subjected
138. A closed compass traverse PQRS is run with a	to a torque T. What is the maximum torsional stress
prismatic compass in a clock wise direction	induced in the beam (b < d and α is a constant)?
Line Fore bearing	(a) $\frac{T}{\alpha b^2 d}$ (b) $\frac{T}{\alpha b d^2}$ (c) $\frac{T}{\alpha b d}$ (d) $\frac{T}{b d}$
PQ 50°	148. For measuring a horizontal angle between two lines
QR 170°	with better accuracy than that given by the vernier, the
RS 230°	method commonly used is
SP 310°	(a) Reiteration (b) Repetition
The value of the included angle S is	(c) Double centering (d) Double sighting
(a) 360° (b) -260° (c) 100° (d) 50°	149. Which among the following is formula for force when
139. Flexural collapse in over-reinforced beam is due to	it acts along the direction of flow?
(a) Compression failure (b) Tension failure	(a) $\rho av^2 Sin^2 \theta$ (b) $\rho av Sin^2 \theta$
(c) Yielding of steel (d) None of these	
140. A centrifugal pump needs 1000 W of power when	(c) ρa Sin²θ (d) maE Sin²θ
operating at 1500 rpm. What is the power requirement	150. Minimum shear reinforcement in beams is provided in
if, the speed of the pump is increased to 3000 rpm?	the form of stirrups
(a) 2000 W (b) 4000 W (c) 6500 W (d) 8000 W	(a) to resist extra shear force due to live load
141. When the prism is placed vertically on one of its end	(b) to resist the effect of shrinkage of concrete
faces, the end face on which the prism rests is called	(c) to resist principal tension
the and the vertical side faces are	(d) to resist shear cracks at the bottom of beam
the faces.	
(a) bottom, lateral (b) base, lateral	
(c) base, longitudinal (d) horizontal, lateral	
142. The process of turning the telescope of a theodolite	
over its supporting axis through 180° in a vertical plane	
is called:	
-	
**** ALL TH	E BEST *****

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