

## Solutions for Railways ALP CBT 2: Test 5

1 - D

Explanation: None of the arguments are strong. The readership of the print format can still be greater than that of the online format even when it is falling drastically. Moreover, there can be readers, however few in number, who may not have access to the online format of the newspaper. Thus, the newspaper will lose this particular segment completely if it restricts itself to the online format. Argument II does not qualify as a strong argument. Even if the revenue earned through online advertising is much higher then also one cannot discount the earning though print version. This should not be the basis for a newspaper to restrict to online format only.

2 - A

Explanation:

swim in deep water	⇒	iw pq cq tw
old deep well	⇒	cq le do
cool well water	⇒	le eo tw
cool swim in summer	⇒	iw ms eo pq
enjoy summer holidays	⇒	oy ms jn

Thus, the code for 'ms' is 'summer'.

3 - B

Explanation: India has jumped 22 places to 96th rank to break into the top 100 of the United Nation's E-Government Development Index (EGDI) 2018. Denmark, with an index value of 0.9150, topped the 2018 E-Government Development Survey. The E-Government survey is released by the United Nations in every two years.

4 - C

Explanation: Internet Explorer (IE) web browser is provided default with a Windows machine.

5 - B

Explanation: Displacement formula

$$S = ut + \frac{1}{2}at^2$$

Here initial velocity  $u=0$  time  $t=10$  sec

acceleration  $a=25\text{cm}/\text{sec}^2$

$$S = 0 + \frac{1}{2} \times (25) \times (10)^2$$

$$S = 25 \times 10 \times 5$$

$$S = 1250 \text{ cm}$$

6 - A

Explanation: While drawing perpendicular line through a point which is nearer to the middle of a given line, an arc is cut at two points on the line. From these two intersection points, we draw other arcs with same radius and they are made to cut each other

7 - A

Explanation: Volume of the cone will be maximum if the height and the radius of the cone are same as that of the cylinder.

Let the height and radius of cylinder be  $h$  and  $r$  respectively.

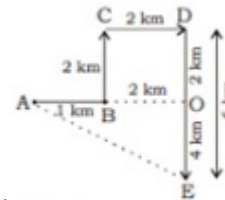
$$h = \sqrt{25^2 - 7^2} = 24\text{cm}$$

$$\text{Volume of cylinder} = \pi \times 7^2 \times 24 = 1176\pi \text{ cm}^3$$

8 - A

Explanation: Tajinderpal Singh has bagged gold in men's shot put event for India in the Asian Games at Jakarta 2018. He at the age of 23 threw the iron ball to 20.75m to win the gold and set a national record as well. He bettered the six-year-old record of 20.69m in the name of Om Prakash Karhana.

9 - C



Explanation:

We know that,

$$AO = AB + BO = 1 + 2 = 3 \text{ km}$$

$$OE = DE - DO = 6 - 2 = 4 \text{ km}$$

$$AE = \sqrt{(AO)^2 + (OE)^2} = \sqrt{3^2 + 4^2}$$

$$= \sqrt{25} = 5 \text{ km}$$

10 - B

Explanation: Volume =  $8 \text{ m}^3$

Weight = 64 kN

Specific Weight of the oil =  $64000/8 = 8000$

Mass density =  $8000/9.8 = 816.32 \text{ kg}/\text{m}^3$

11 - B

Explanation: Area shows only boys and girls = 7

12 - B

Explanation: Sangita Kalanidhi Award is presented to renowned artists in the field of music by the Music Academy. In 2018 Carnatic vocalist Aruna Sairam has

been selected for 2018 Sangita Kalanidhi award for her contribution to Carnatic music.

### 13 - D

Explanation: The leader is never drawn vertical or horizontal or curved. It is drawn at a convenient angle of not less than  $30^\circ$  to the line to which it touches. When pointing to a circle or an arc it is drawn radially.

### 14 - A

Explanation: We can't be certain that inspections are carried out as the warning is just written on a notice.

### 15 - B

Explanation: HCF of numbers = 23

$$\therefore \text{Numbers} = 23x \text{ and } 23y$$

Where x and y are prime to each other.

Ratio of numbers = 1 : 5

$$\therefore \text{Larger number} = 23 \times 5 = 115$$

### 16 - D

Explanation: Let the numbers be X and Y.

$$X+Y=48$$

$$XY = \text{HCF} \times \text{LCM} = 6 \times 64$$

$$\frac{1}{X} + \frac{1}{Y} = \frac{X+Y}{XY} = \frac{48}{6 \times 64} = \frac{1}{8}$$

### 17 - C

Explanation: As the distribution is symmetrical  
So,

$$Q_2(\text{Median}) = \frac{Q_1 + Q_3}{2}$$

$$Q_2 = \frac{35 + 55}{2}$$

$$Q_2 = 45$$

### 18 - B

Explanation: The Union Government has recently dismissed Usha Ananthasubramanian, former CEO/ MD of Allahabad Bank and scam hit Punjab National Bank (PNB), from service. The bank had earlier divested Ananthasubramanian of all her powers as MD three months back, after she was named in the CBI charge-sheet in the Rs 14,000 Cr. PNB fraud case.

### 19 - A

Explanation: Dictionary Order:-

2. Preparatively

4. Preponderate

1. Preposition

5. Prepossess

3. Preposterous

### 20 - A

$$\text{Explanation: } P = \frac{160}{100}Q, Q = \frac{160}{100}R$$

$$P = \frac{160 \times 160}{100 \times 100}R = \frac{64}{25}R$$

Only possible value for each of the number be a two digit number

$$R = 25$$

$$Q = 40 \text{ and } P = 64$$

$$\text{Required sum} = 64 + 40 + 25 = 129$$

### 21 - B

Explanation: There will be two possible Venn diagram:  
Only conclusion I follow because some boys can be girls shows a possibility which can be true.

### 22 - C

Explanation: The difference between the simple interest and compound interest for 2 years

$$D = \frac{PR^2}{100^2}$$

$$P = \frac{34 \times 100 \times 100}{5 \times 5}$$

$$P = \text{Rs. } 13600$$

### 23 - D

Explanation: India's first in-phone tourism guide and mobile application "Go What's That" has been launched by Dharmendra Pradhan, the Union Minister for Petroleum & Natural Gas and Skill Development & Entrepreneurship, at Rock Garden in Chandigarh.

### 24 - B

Explanation: Former junior world champion boxer Sakshi Choudhary (57kg) added the youth crown to her cabinet, claiming the gold with a dominating victory over Nikolina Cacic of Croatia at Budapest. Sakshi fetched a unanimous verdict over the Croat to clinch the gold medal.

### 25 - C

Explanation:

### 26 - A

Explanation: By using equation of motion in vector form-

$$\text{Initial velocity} = 4i + 5j$$

$$\text{Acceleration} = 0.4i + 0.5j$$

$$\text{Time} = 10 \text{ sec}$$

$$\text{1st equation of motion, } v = u + at$$

$$V = 4i + 5j + 10 \times (0.4i + 0.5j)$$

$$V = 8i + 10j$$

$$V = \sqrt{8^2 + 10^2}$$

$$V = \sqrt{(64 + 100)}$$

$$V = 2\sqrt{41}$$

**27 - B**

Explanation: The first ever dragonfly festival was celebrated recently in Delhi. This was the first ever festival for insects to maintain ecosystem. The festival was jointly organized by World Wide Fund (WWF) and Bombay Natural History Society (BNHS).

**28 - D**

Explanation: Total Weight of 43 student is = 43 x 39 = 1677 kg  
 Let the age of teacher be X kg  
 Then, X + 1677 = 44 x 40  
 X = 83 kg

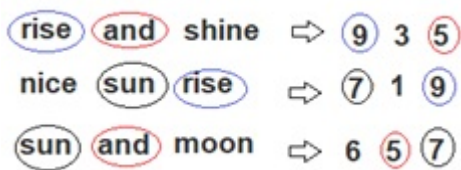
**29 - A**

Explanation:  $\frac{0.03}{100} \times A = 36$   
 $A = 120000$   
 $B = \frac{42}{100} \times 120000$   
 Required value =  $\frac{23}{100} \times \frac{42}{100} \times 120000 = 11592$

**30 - C**

Explanation:  $p \sin 45^\circ = q \operatorname{cosec} 30^\circ$   
 $\frac{p}{q} = \frac{\operatorname{cosec} 30^\circ}{\sin 45^\circ} = \frac{2}{\frac{1}{\sqrt{2}}} = \frac{2\sqrt{2}}{1}$   
 $\frac{p^4}{q^4} = \left(\frac{2\sqrt{2}}{1}\right)^4 = \frac{64}{1} = 4^3$

**31 - B**



Explanation:  
 Thus, 6 9 will be the code for 'moon rise'.

**32 - B**

Explanation: The apparent weight of a person standing in a elevator will be less than its weight on the surface of the earth.

**33 - D**

Explanation: Voltage across the cell is called terminal voltage given by formula  $V = E - Ir$ ,  
 Here E is emf r is internal resistance Terminal voltage of battery = voltage across external resistance  
 $IR = E - Ir$   
 $I = \frac{E}{(R+r)}$

$$I = \frac{4}{(7.8+0.2)} = \frac{1}{2} A$$

Since terminal voltage of battery = voltage across external resistance

Hence voltage across cell =  $\frac{1}{2} (7.8) = 3.9V$

**34 - C**

Explanation: Russia has recently conducted Vostok-2018 (East-2018) – the largest military exercise in central and eastern Russian military districts. It was the biggest war games ever conducted by Russia since Zapad-81 (West-81) exercise conducted by erstwhile Soviet Union in 1981 which had seen involvement about 100,000 to 150,000 troops.

**35 - B**

Explanation: Let X and Y (in years) be the present age of Shweta and her daughter respectively.  
 8 years ago, Shweta's age = X - 8 and her daughter's age = Y - 8  
 $X - 8 = 8(Y - 8)$   
 $Y = \frac{X+56}{8} \dots \dots \dots (I)$   
 After 16 years,  
 $X + 16 = 2(Y + 16)$   
 $Y = \frac{X-16}{2} \dots \dots \dots (II)$   
 From (I) and (II)  
 $\frac{X+56}{8} = \frac{X-16}{2}$   
 X = 40 years

**36 - A**

Explanation: The 'Mil Banche Madhya Pradesh' program has been implemented in the State for advancement of language skill, to develop books reading habit other than text books, to develop comprehension skills and for multi dimensional development of the children through co-academic activities.

**37 - C**

Explanation: Given today is Sunday  
 65 divided by 7 then we get 2 odd days  
 The days code are:  
 Sunday--0  
 Monday--1  
 Tuesday--2  
 Wednesday--3  
 Thursday--4  
 Friday--5  
 Saturday--6  
 So, 65th day will be Tuesday.

**38 - C**

Explanation: In third class lever, the Effort is between the Load and the Fulcrum. E.g human arms and legs, ice tongs, fishing rod

**39 - B**

Explanation: The local authorities and the Health and Safety Executive (HSE) is responsible for the enforcement of the 1974 Act.

**40 - D**

Explanation:  $10^2 + 7^3 + (243)^{\frac{1}{3}} = ?^2 + 5$

$$100 + 343 + 3 = ?^2 + 5$$

$$446 = ?^2 + 5$$

$$?^2 = 441$$

$$? = 21$$

**41 - C**

Explanation:  $x \tan 60^\circ + \cos 45^\circ = \sec 45^\circ$

$$x(\sqrt{3}) = \frac{1}{\sqrt{2}} = \sqrt{2}$$

$$x(\sqrt{6}) + 1 = 2$$

$$x = \frac{1}{\sqrt{6}}$$

$$x^2 = \frac{1}{6}$$

$$x^2 + 1 = \frac{1}{6} + 1$$

$$x^2 + 1 = \frac{7}{6}$$

**42 - D**

Explanation: Removed section is not in direct projection from the view containing the cutting plane.

**43 - C**

Explanation: Given a hexagon parallel to vertical plane so the plane containing hexagon in perpendicular to horizontal plane and profile plane. The top view and side view gives a line and front view gives the true shape and size of hexagon

**44 - C**

Explanation: Ratio of their respective capital = Anup:

Bharat: Chirag

$$= 12800 : 16800 : 9600$$

$$= 16 : 21 : 12$$

Let the Total profit be P.

$$\text{Bharat's share} = \text{Rs. } \frac{21P}{49}$$

$$\frac{21P}{49} = 13125$$

$$P = \frac{13125 \times 49}{21} = \text{Rs. } 30625$$

$$\text{Chirag's share} = \frac{12}{49} \times 30625 = \text{Rs. } 7500$$

**45 - A**

Explanation: Startup "India Yatra" has recently launched in the capital city of Chhattisgarh - Raipur. It is a flagship initiative of Government of India to promote job in cities and towns in tier 2 and tier 3 in one state every month across the country.

**46 - C**

Explanation: Dictionary order of given words are:

1. Encounter
2. Encourage
3. Encradle
4. Encroach

**47 - D**

Explanation: Former president Pranab Mukherjee has recently launched an app called 'Neta App' founded by Pratham Mittal. This app will allow the voters to rate their political representatives. The aim is to foster political accountability by being an early indicator of how a leader's performance is being perceived by voters.

**48 - B**

Explanation: Chloe Benjamin has authored the book "The Immortalists", probing the line between destiny and choice, reality and illusion, this world and the next. It is a deeply moving testament to the power of story, the nature of belief, and the unrelenting pull of familial bonds.

**49 - B**

Explanation: In Right angle triangle ABC,

$$\tan 30^\circ = \frac{AB}{BC}$$

$$\frac{1}{\sqrt{3}} = \frac{20}{BC}$$

$$BC = 20\sqrt{3}$$

$$\text{Distance between foot of ladder to wall} = 20\sqrt{3}m$$

**50 - A**

Explanation: The memory that can be programmed and erased in sectors, rather than one byte at a time is a flash non volatile memory.

**51 - B**

Explanation: Since the true shape of the cylinder is circle from one view, we used the symbol  $\phi$  followed by the dimension figure while dimensioning it in the view where it is seen as a rectangle.

52 - D



Explanation:

The correct answer figure is (D).

53 - B

Explanation: To raise funds to build Andhra Pradesh's capital Amaravati, the state government has tapped the capital markets with the listing of bonds issued by AP Capital Region Development Authority (AP-CRDA) titled as Amravati Bond 2018.

54 - D

Explanation:

We have to find AE

Now,  $AF = AB + CD = 12$ And  $EF = ED - BC = 5$ Thus  $AE^2 = AF^2 + EF^2$  $= 12^2 + 5^2 = 169$ 

AE = 13 km.

55 - A

Explanation: The statement talks about the welfare scheme offering food at 'subsidized prices'. Thus, by definition the proposed prices would be lower than the current food prices. Assumption I is therefore implicit in the statement. Assumption II is not implicit in the statement as there are other basic necessities of life as well but the welfare scheme is not covering those.

56 - D

Explanation: For the first time, NASA's New Horizons spacecraft has photographed Kerberos and Styx. These are the smallest and faintest of Pluto's five known moons. Styx, circling Pluto every 20 days, is likely just 7-21 Km in diameter and Kerberos, with a 32-day period, is just 10-30 Km in diameter.

57 - D

Explanation: The principle reason for using an auxiliary view is to create a true projection plane from an inclined plane in one of the primary views.

58 - C

Explanation: Rythu Bandhu scheme is a Farmers' Investment Support Scheme (FISS) i.e. a welfare program recently launched by Telangana state government in collaboration with LIC India to provide an insurance coverage of Rs. 5 Lac to every farmer in the state.

59 - A

Explanation: Luminol spray often used at crime scenes to find trace amounts of blood is found to kill the malaria parasite revealed by the scientists recently. Luminol glows blue when it encounters the hemoglobin in red blood cells. The researchers found that the compound can be used to trigger an amino acid present in hemoglobin to kill the malaria parasite Plasmodium falciparum in red blood cells.

60 - B

Explanation:  $\Delta Q = 4$  kilocalories  $= 4000 \times 4.2 = 16800$  joules

W = 1500 joules

From first law of thermodynamics

$$\Delta U = \Delta Q - W$$

$$\Delta U = 16800 - 1500$$

$$= 15300 \text{ joules} = 15.3 \text{ KJ}$$

61 - A

Explanation: The first conclusion follows the statement as the statement tells about the quality and latest design of the camera but not anything about the company's reputation.

62 - B

Explanation: we know that,  $g = \frac{GM}{R^2}$

on the planet

$$g_p = \frac{\frac{GM}{9}}{\frac{R^2}{4}}$$

$$g_p = \frac{4}{9}g$$

Hence Weight on the planet  $= \frac{4}{9} \times 630 = 280 \text{ gm wt}$

63 - C

Explanation: Union Ministry of Women and Child Development recently had inaugurated widows' home 'Krishna Kutir' at Vrindavan in Mathura, Uttar Pradesh. Krishna Kutir is special home for 1000 widows set under Swadhar Greh scheme and is the largest ever facility of its kind created by government organization.

64 - C

Explanation: Suppose half distance is x km.

Average Speed of Bus = total distance/total time

Total distance =  $x+x \Rightarrow 2x$ 

We know that, Time = distance / speed

Total time =  $t_1 + t_2$ 

$$t_1 = \frac{x}{65} \text{ and } t_2 = \frac{x}{85}$$

$$\text{Average Speed of Bus} = \frac{2x}{\frac{x}{65} + \frac{x}{85}}$$

$$= \frac{2 \times 65 \times 85}{150} = 73.67$$

**65 - C**

Explanation: The Indian Human Spaceflight Program (HSP) has been created by the Indian Space Research Organization (ISRO) to develop the technology needed to launch crewed orbital spacecraft into low Earth orbit. "The mission will make India the fourth nation in the world to launch a Human Spaceflight Mission, France to provide life support and medicine for 'Gaganyaan' crew.

**66 - B**

Explanation:

All teachers teach in school and they have to be post graduate and graduates. Thus some graduates who are a teacher teach in schools and to be a teacher, one has to be a post graduate. Thus, I, II and III follow.

**67 - B**

Explanation: Let AB and AC be the height and length of the shadow of minaret respectively.

As the triangle ABC is right angle triangle.

Then,

$$BC^2 = AB^2 + AC^2$$

$$BC^2 = 60^2 + 45^2$$

$$BC = 75 \text{ m}$$

**68 - C**

Explanation: Let  $\theta$  be the final temperature of mixture (Both oxygen and nitrogen will have same specific heat as both are diatomic gases.)

Heat loss by Oxygen = Heat gain by Nitrogen  
 Number of moles of oxygen  $\times$  molar specific heat  $\times (\Delta\theta)$  = Number of moles of nitrogen  $\times$  molar specific heat  $\times (\Delta\theta)$

$$1 \times C_p \times (39 - \theta) = 1 \times C_p \times (\theta - 29)$$

$$\theta = 39 + 29 = 68$$

$$\theta = 34^\circ\text{C}$$

**69 - D**

Explanation: Let the MP of the Article be Rs 100.

So, SP = Rs 90

$$CP = 90/1.2 = \text{Rs } 75$$

When the discount rate is increased to 13.75 %.

$$SP = \text{Rs } 86.25$$

$$\text{Profit Percentage} = \frac{86.25 - 75}{75} \times 100 = 15\%$$

**70 - B**

Explanation: Only argument II is strong. ROI is not the only criterion that justifies investment in infrastructure over subsidies. This is so because subsidies are given to

support the poor. Argument II is strong since the State cannot overlook the farming population.

**71 - C**

Explanation: Let the first, second and third number be F, S and T Respectively.

$$F = 0.75 \times 1.25 \times T$$

$$T = \frac{270}{0.75 \times 1.25} = 288$$

**72 - C**

Explanation: Given,

$$3 \times 2 < 4 \div 6 + 3 < 2$$

After changing the signs

$$3 + 2 - 4 > 6 \div 3 - 2$$

$$5 - 4 > 2 - 2$$

$$1 > 0 \text{ (correct)}$$

**73 - C**

Explanation: We know that

$$a^3 + b^3 = (a + b)(a^2 + b^2 - ab)$$

$$\frac{10.3 \times 10.3 \times 10.3 + 1}{10.3 \times 10.3 - 10.3 + 1} = \frac{(10.3)^3 + 1}{(10.3)^2 + 1^2 - 10.3 \times 1}$$

$$\frac{10.3 \times 10.3 \times 10.3 + 1}{10.3 \times 10.3 - 10.3 + 1} = (10.3 + 1) = 11.3$$

**74 - A**

Explanation: D = 57, 69, 76, 88, 95

I = 58, 65, 77, 89, 96

R = 04, 11, 23, 30, 42

T = 56, 68, 75, 87, 99

Thus, the number set for the given word is 57, 58, 23, 99.

**75 - C**

Explanation: China awarded its first highest state honour Friendship Medal to Russian President Vladimir Putin. The award was personally bestowed on Vladimir Putin by Chinese President Xi Jinping in grand ceremony held at Great Hall of the People in capital city of Beijing.

**76 - D**

Explanation: The distance travelled by Car A = 475 km

The distance travelled by Car E and C = 525 + 550 = 1075 km

$$\text{Required percentage} = \frac{475}{1075} \times 100 = 44\% (\text{approx})$$

**77 - C**

Explanation: Total distance travelled by all trucks

$$= 475 + 350 + 550 + 425 + 525 = 2325 \text{ km}$$

$$\text{Average distance} = \frac{2325}{5} = 465 \text{ km}$$

**78 - A**

Explanation: The distance travelled by Car A=475  
The distance travelled by Car D=425

$$\text{Ratio} = \frac{475}{425} = 19:17$$

**79 - D**

Explanation:

**80 - C**

Explanation: Let the length of the part P, Q, R, S and T equals to D, 2D, 3D, 4D and 5D respectively.

So,

$$15D=6000$$

$$D=400 \text{ m}$$

$$\text{Time Taken to cover part } P = \frac{400}{40} = 10 \text{ sec}$$

$$\text{Time Taken to cover part } Q = \frac{800}{80} = 10 \text{ sec}$$

$$\text{Time Taken to cover part } R = \frac{1200}{60} = 20 \text{ sec}$$

$$\text{Time Taken to cover part } S = \frac{1600}{20} = 80 \text{ sec}$$

$$\text{Time Taken to cover part } T = \frac{2000}{50} = 40 \text{ sec}$$

Total Time=160 Sec

$$\text{Average Speed} = \frac{6000}{160} = 37.5 \text{ m/s}$$

**81 - C**

$$\text{Explanation: Sum} = \frac{30720 \times 100}{16 \times 8}$$

$$\text{Sum} = 24,000$$

$$CI = 24000 \left[ \left( 1 + \frac{10}{100} \right)^2 - 1 \right]$$

$$CI = 24000 \times \frac{21}{100}$$

$$CI = \text{Rs.} 5040$$

**82 - C**

Explanation: The National Bank for Agriculture and Rural Development (NABARD) has approved Rs 65,634.93 Cr. loan so far to 93 prioritized irrigation NSE -2.29 % projects under the government's flagship scheme Pradhan Mantri Krishi Sinchai Yojana (PMKSY)

**83 - C**

Explanation: The first-ever Humboldt penguin, born in a Mumbai's Veer Jijamata zoo. It was named Freedom Baby as it was born on Independence Day. Freedom Baby died barely a week after it was born due to new born anomalies like liver dysfunction and yolk sac retention.

**84 - C**

Explanation: The investment potential list index is prepared by economic think tank National Council of Applied Economic Research (NCAER) for every Indian

state. In 2018, the index showed that Delhi has topped in the rankings on infrastructure and economic conditions of the state.

**85 - D**

Explanation: Continuous thin straight lines are used to denote the dimensions of the object. Thin lines are used so as to distinguish between outline and the dimension line.

**86 - C**

Explanation: Since the frequency is maximum for 7 Hence mode is 10.

**87 - B**

Explanation: Given,

$$13 * 5 * 5 * 15 * 5 * 5$$

After changing the signs

$$13 \times 5 + 5 = 15 \times 5 - 5$$

$$70 = 70$$

**88 - A**

Explanation: Let the Principle be P.

Then,

$$P \left[ \left( 1 + \frac{10}{100} \right)^2 - 1 \right] = 168$$

$$P \left[ \frac{121}{100} - 1 \right] = 168$$

$$P = \frac{168 \times 100}{21}$$

$$P = 800$$

$$\text{Required Interest} = 2 \times 10 \times \frac{800}{100} = \text{Rs.} 160$$

**89 - A**

Explanation: Let the number of hemisphere formed be n,

Then,

Volume of cuboidal gold bar = n x volume of hemisphere

$$16 \times 11 \times 8 = n \times \frac{2}{3} \times \frac{22}{7} \times 2^3$$

$$n = 84$$

**90 - D**

Explanation: For the first time when we unfold the paper we will get

And second time when we unfold the paper we will get the final figure on the paper

**91 - C**

Explanation: In 120 liters mixture-

$$\text{Milk} = 120 \times \left( \frac{4}{5} \right) = 96 \text{ liters}$$

$$\text{Water} = 120 - 96 = 24 \text{ liters}$$

Let the quantity of mixture taken out be 5X.

Then,

$$\frac{96-4X}{24+11-X} = \frac{8}{3}$$

$$X = 2$$

Then Quantity of mixture taken out is 10 liters

**92 - D**

Explanation: Any measure is taken assuming that the people would accept it. Therefore, assumption I is implicit. Also, it is assumed that there is a possibility that the tax collection, due to the measure taken, may increase substantially because if the increase is substantial will it serve the government's purpose for enforcing its decision. Therefore, assumption II is also implicit.

**93 - D**

Explanation: Slope of line passing through the point

$$(x_1, y_1) \text{ and } (x_2, y_2) = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{9-7}{8-4} = \frac{2}{4} = 0.5$$

**94 - D**

Explanation:

**95 - D**

Explanation: A full size scale is a type of scale in which the length of the drawing and the actual length of the object is of the ratio 1:1.

Hence by definition, its representative fraction is 1:1. In full size scale the drawing is drawn with the actual measurements.

**96 - D**

Explanation: The words are arranged as per the English dictionary:

1. Restaurant
2. Restore
3. Revolution

**4. Revolve**

Therefore, the second last word is 'Revolution'.

**97 - B**

Explanation: Nehal Chudasama has recently crowned as Miss Universe India 2018 also known as Miss Diva 2018 held at National Sports Club of India, Mumbai. She succeeds and was crowned by Miss Universe India 2017 Shraddha Shashidhar. She is 22 year old fitness consultant, anchor and a model.

**98 - D**

Explanation: Series generators and over compound generators have rising voltage characteristics. In both cases terminal voltage rises when load increases due to series field characteristics. Therefore these two have negative voltage regulation and these are not suitable for ordinary power supplies.

**99 - D**

Explanation: Ajay and Brijesh 's 3 days work

$$= 3\left(\frac{1}{8} + \frac{1}{12}\right) = \frac{5}{8} \text{ th part of the work}$$

$$\text{The remaining work} = 1 - \frac{5}{8} = \frac{3}{8} \text{ th part}$$

So,

$$\text{Ajay will finish the work} = \frac{3}{8} \times 8 = 3 \text{ days}$$

**100 - A**

Explanation: No of persons eligible to vote = 35 % of 200000 = 70000

No of valid votes = 70,000

Percentage of votes received by loser = (100-54) % = 46 %

Number of valid votes received by loser

= 46 % of 70000

= 32200