

## General Awareness

### S1. Ans.(c)

**Sol.** New Zealand all-rounder Corey Anderson, has announced his retirement from international cricket.

### S2. Ans.(d)

**Sol.** The Reserve Bank of India has announced that the Real Time Gross Settlement (RTGS) system will be made available round the clock on all days of the year with effect from 00:30 hours on December 14, 2020. Presently RTGS system is available for customers between 7:00 AM and 6:00 PM.

### S3. Ans.(b)

**Sol.** Adar Poonawalla, the Chief Executive of the Pune-based Serum Institute of India (SII), has been named among six "The Straits Times Asians of the Year" for 2020, by Singapore's leading daily, The Straits Times, for their work in fighting the COVID-19 pandemic.

### S4. Ans.(a)

**Sol.** China has become the second country in the world to unfurl its national flag on the moon surface. Earlier this feat was achieved only by the USA, when it planted its flag on the Moon during the Apollo mission in 1969.

### S5. Ans.(b)

**Sol.** RTGS shall continue to be governed by the RTGS System Regulations, 2013.

### S6. Ans.(e)

**Sol.** The Bengaluru-based space-technology start-up Pixxel, has signed a pact with the Indian Space Research Organisation (ISRO) to launch its first remote-sensing satellite on Isro's workhorse Polar Satellite Launch Vehicle (PSLV) rocket in early 2021.

### S7. Ans.(a)

**Sol.** In India, the Armed Forces Flag Day (also known as the Flag Day of India) is observed annually on December 7 since 1949 as an honour to the soldiers, sailors and airmen of India who fought on the borders to keep the country safe.

### S8. Ans.(b)

**Sol.** Bangladesh has signed its first Preferential Trade Agreement (PTA) with Bhutan, which will allow duty free access to a range of goods between the two countries and hence boost bilateral trade between them.

### S9. Ans.(d)

**Sol.** Ravi Patwardhan, a popular face in Marathi entertainment industry, has passed away after suffering from a massive heart attack.

### S10. Ans.(a)

**Sol.** The Manila-based Asian Development Bank (ADB) has approved a loan of \$190 million (approx Rs 1,400 crore) to modernize and upgrade the power distribution system in Bengaluru, Karnataka.

### S11. Ans.(b)

**Sol.** The International Civil Aviation Day is celebrated every year on December 7 to recognize the importance of aviation to the social and economic development of the world.

### S12. Ans.(d)

**Sol.** Veteran Bengali actor Manu Mukherjee has passed away after a cardiac arrest.

### S13. Ans.(d)

**Sol.** Narinder Singh Kapany, also known as the father of fibre optics, passed away at the age of 94.

### S14. Ans.(b)

**Sol.** PNB has launched a tech-based loan management solution 'LenS-The Lending Solution', to speed up and maintain accuracy in online loan processing and sanctioning of credit proposals. It is envisaged to be implemented in a phased manner for all kinds of loans.



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Starts Mar 22, 2021 10 AM to 2 PM

**S15. Ans.(b)**

**Sol.** The International Civil Aviation Organization has decided that from now until 2023, the theme will be: "Advancing Innovation for Global Aviation Development".

**S16. Ans.(b)**

**Sol.** Every year International Human Solidarity Day is observed on December 20 to celebrate the unity in diversity and raise awareness about the importance of solidarity.

**S17. Ans.(c)**

**Sol.** PM Modi also presented the 'ASSOCHAM Enterprise of the Century Award' to Shri Ratan Tata, on behalf of the TATA Group, for his distinguished contributions to the country.

**S18. Ans.(a)**

**Sol.** Sreenivas Karanam, Bengaluru was selected for the FIRST prize for his contribution in developing a cost-effective customized technical solution under the brand 'C mobile', for deep-sea communication, operating along the Kerala coast, facilitating communication among fishermen and issue of weather alerts etc.

**S19. Ans.(d)**

**Sol.** The Reserve Bank of India has further extended the restrictions on crisis-ridden Punjab and Maharashtra Co-operative (PMC) Bank by three months till 31 March, 2021.

**S20. Ans.(b)**

**Sol.** Amount sanctioned: USD 100 million. CHIRAAG aims at promoting nutrition-supportive agriculture for tribal households in Chhattisgarh

**S21. Ans.(c)**

**Sol.** Senior Rashtriya Swayamsevak Sangh (RSS) ideologue MG Vaidya has passed away after a brief illness. He was a veteran journalist, a Sanskrit scholar and the first official spokesperson of the RSS.

**S22. Ans.(a)**

**Sol.** World Bank amount approved: USD 68 million. It will improve classroom instruction; create opportunities for the professional development of teachers; and build technology systems to provide students and teachers with more access to blended and online learning as well as allow better monitoring of policies and programs. It will enhance overall quality education in the state.

**S23. Ans.(d)**

**Sol.** Financial aid approved: USD 250 million. DRIP-2 will improve the safety and performance of existing dams across various states of India, and strengthen dam safety by building dam safety guidelines; bring in global experience; and introduce newer technologies.

**S24. Ans.(e)**

**Sol.** The Minister of State for Skill Development, Raj Kumar Singh has inaugurated the first Centre of Excellence (CoE) for 'skill development in the power sector' in Gurugram, Haryana.

**S25. Ans.(c)**

**Sol.** The Uttar Pradesh government has launched a special campaign 'Varasat' (natural succession) to curb property & land-related disputes in rural areas.

**S26. Ans.(b)**

**Sol.** The Hawker Culture of street food in Singapore has been inducted by UNESCO in its prestigious 'Representative List of the Intangible Cultural Heritage of Humanity'.

**S27. Ans.(d)**

**Sol.** The 20th edition of the Indian Ocean Rim Association (IORA) Council of Ministers (COM) Meeting via video conferencing under the Chairmanship of the United Arab Emirates (UAE).

**S28. Ans.(e)**

**Sol.** The theme of the 2020 Global Technology Summit was "The Geopolitics of Technology".

**S29. Ans.(c)**

**Sol.** The Defence Minister, Rajnath Singh recently handed over three indigenously developed high technology systems to chiefs of the three armed forces: the Indian Army, the Indian Navy and the Indian Air Force. The three systems namely, Border Surveillance System (BOSS), Indian Maritime Situational Awareness System (IMSAS) and ASTRA Mk-I Missile, have been developed by the Defence Research and Development Organisation (DRDO).

**S30. Ans.(a)**

**Sol.** Union Minister of Defence, Rajnath Singh has inaugurated the advanced Hypersonic Wind Tunnel (HWT) test facility of the DRDO in Hyderabad, Telangana.

**S31. Ans.(a)**

**Sol.** India is ranked at 10th place in the 'Climate Change Performance Index (CCPI) 2021', released on 7th December 2020. The overall score of India is 63.98.

**S32. Ans.(c)**

**Sol.** The world's highest mountain peak 'Mount Everest' has become taller by 86 cm, as per a survey conducted jointly by Nepal and China. The new height of Mt Everest, has been calculated at 8,848.86 metres, which is 0.86m more than the previous measurement done by India in 1954.

**S33. Ans.(d)**

**Sol.** NTPC Ltd., a PSU under Ministry of Power, has signed a Memorandum of Understanding (MoU) with Indian Institute of Forest Management (IIFM), Bhopal, for the implementation of Narmada Landscape Restoration Project (NLRP).

**S34. Ans.(a)**

**Sol.** Prime Minister Shri Narendra Modi inaugurated and addressed the virtual edition of the India Mobile Congress (IMC) 2020 on 8th December 2020 through video conference. The theme for IMC 2020 is "Inclusive Innovation – Smart, Secure, Sustainable".

**S35. Ans.(e)**

**Sol.** The Geneva-based United Nations Conference on Trade and Development (UNCTAD) has awarded the 2020 United Nations Investment Promotion Award to Invest India, the National Investment Promotion Agency of India.

**S36. Ans.(d)**

**Sol.** International Anti-Corruption Day is observed annually on 9 December to raise public awareness for anti-corruption.

**S37. Ans.(c)**

**Sol.** US-based Indian-origin health expert, Anil Soni, has been appointed as the first Chief Executive Officer (CEO) of the newly-created The World Health Organization (WHO) Foundation.

**S38. Ans.(a)**

**Sol.** Sports Minister Kiren Rijiju launched the second edition of Fit India Cyclothon through virtual platform on 7th December 2020. The mega cycling event will run for 25 days, beginning from 7th December till 31st December 2020.

**S39. Ans.(b)**

**Sol.** Consulting firm PwC India has collaborated with the United Nations Children's Fund (UNICEF) and YuWaah (Generation Unlimited in India) to upskill 300 million young Indians over the next 10 years.

**S40. Ans.(d)**

**Sol.** The International Day of Commemoration and Dignity of the Victims of the Crime of Genocide and of the Prevention of this Crime is observed annually on December 9.

**S41. Ans.(a)**

**Sol.** The Manila-based multilateral lending agency Asian Development Bank (ADB) has approved a USD 2.5 million (about Rs 18 crore) technical assistance to support advanced biofuel development in India.

**S42. Ans.(c)**

**Sol.** The historical fort cities of Gwalior and Orchha in Madhya Pradesh have been included in the list of UNESCO's world heritage cities under its The World Heritage Cities Programme.

**S43. Ans.(d)**

**Sol.** The Reserve Bank of India has cancelled the licence of Karad Janata Sahakari Bank Ltd in Maharashtra, as it does not have adequate capital and earning prospects.

**S44. Ans.(e)**

**Sol.** The theme of International Anti-Corruption Day 2020: 'RECOVER with INTEGRITY.' The theme focuses on recovery through corruption mitigation and emphasizes that inclusive COVID-19 recovery can only be achieved with integrity.

**S45. Ans.(b)**

**Sol.** Swedish pole vaulter Mondo Duplantis and Venezuelan triple jumper Yulimar Rojas are the 2020 Male and Female World Athletes of the Year. They are their countries' first recipients of the prestigious athletics award announced during the virtual awards.

**S46. Ans.(b)**

**Sol.** Domestic rating agency ICRA Ratings has projected the GDP of India to contract to 7.8% in the financial year 2020-2021.

S47. Ans.(d)

Sol. The Asian Development Bank (ADB) has signed \$300 million loan agreement with the Government of India to upgrade rural power distribution networks in Uttar Pradesh, to provide reliable electricity supply to consumers in the state.

S48. Ans.(a)

Sol. The Government of India and the Asian Development Bank (ADB) have signed a US \$4.21 million project readiness financing (PRF) facility.

S49. Ans.(d)

Sol. Vidyut Mohan was one of the seven UNEP's "Young Champions of the Earth".

S50. Ans.(d)

Sol. A global ranking of personal, civil and economic freedom, Human Freedom Index 2020 placed India at 111 out of 162 countries.



### Quantitative Aptitude

S1. Ans.(a)

Sol. Let, A's efficiency = 20

$$\Rightarrow \text{B's efficiency} = 20 \times \frac{75}{100} = 15$$

$$\text{and C's efficiency} = 20 \times \frac{3}{5} = 12$$

	A	:	B	:	C	
EfficiencyRatio	= 20		:	15	:	12
Ratio of time taken alone to complete the work	$\frac{1}{20}$		:	$\frac{1}{15}$		$\frac{1}{12}$
	3		:	4		5
	$\times 6 \downarrow$		:	$\times 6 \downarrow$		$\times 6 \downarrow$
	18		:	24		30

B and C complete the work alone in

$$= \frac{24 \times 30}{24 + 30} \text{ days}$$

$$= \frac{40}{3} \text{ days} = 13 \frac{1}{3} \text{ days}$$

S2. Ans.(b)

Sol. Let time taken by Rohit and Sumit together to complete the work be 10x days.

So Rohit will take 16x days to complete the work alone.

Let total work = 80x units (L C M)

So, efficiency of Rohit is 5 and efficiency of Rohit and Sumit together is 8.

$$\text{Time taken by Sumit alone to finish the work} = \frac{80x}{8-5}$$

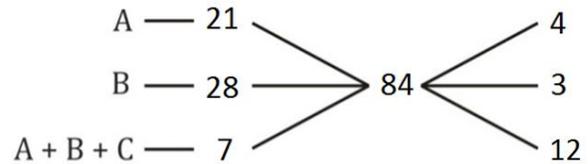
$$160 = \frac{80x}{3}$$

$$x = 6$$

$$\therefore \text{Required days} = 16x = 96 \text{ days}$$

S3. Ans.(e)

Sol. Days total work efficiency



So, efficiency of C = 12 - 7 = 5 units per day

$$\therefore \text{Share of C} = 1080 \times \frac{5}{12} = \text{Rs } 450$$

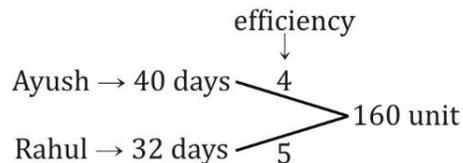
S4. Ans.(b)

Sol. Ratio of efficiency of Ayush and Rahul = 100 : 125 = 4 : 5

$\therefore$  Ratio of time taken by Ayush and Rahul = 5 : 4

$\therefore$  Ayush do the work in 40 days.

$\therefore$  Rahul do the work in 32 days.



$\therefore$  work completed by Ayush in 15 days = 15  $\times$  4 = 60 unit.

Remaining work = 160 - 60 = 100 unit

$\therefore$  Remaining work completed by Rahul in

$$= \frac{100}{5} = 20 \text{ days.}$$

**S5. Ans.(b)**

**Sol.** Let 4 men work = 3 women work = 5 boys work = 60 unit (LCM of 4, 3 and 5)

Efficiency of a man =  $\frac{60}{4} = 15$  unit/day

Efficiency of a woman =  $\frac{60}{3} = 20$  unit/day

Required time =  $\frac{60}{15+20} = \frac{60}{35}$

=  $1\frac{5}{7}$  days

**S6. Ans.(d)**

**Sol.** Let, Abhishek can complete the work alone in 'x' days.

Then, Satish can complete the work alone in  $x \times \frac{100}{75}$

=  $\frac{4x}{3}$  days

Bhavya can complete the work alone in  $\frac{4x}{3} \times \frac{1}{2}$  days =  $\frac{2x}{3}$

days

ATQ,

$$\frac{3}{4x} + \frac{3}{2x} = \frac{3}{20}$$

$$\Rightarrow \frac{1+2}{4x} = \frac{1}{20}$$

$$\Rightarrow x = 15$$

Bhavya and Abhishek can complete the work alone in

$$\frac{15 \times 10}{15+10} = \frac{150}{25} = 6 \text{ days.}$$

**S7. Ans.(c)**

**Sol.** 60% work completed in =  $\frac{3}{5}x$  days

100% work completed in =  $\frac{3}{5} \times \frac{100}{60}$

= x days

ATQ

$$\frac{(x+28)(x+7)}{x+28+x+7} = x$$

On solving

$$x = 14$$

**S8. Ans.(d)**

**Sol.** Let Pipe A and B alone can fill the tank in 'a' and 'b' respectively.

ATQ,

$$\frac{1}{a} + \frac{1}{b} = \frac{1}{36} \dots \dots \dots (i)$$

And,

$$\frac{40}{a} + \frac{30}{b} = 1 \dots \dots \dots (ii)$$

On solving (i) and (ii), We get

$$a = 60 ; b = 90$$

**S9. Ans.(e)**

**Sol.** Let Pipe A can fill the tank in x minutes

$\Rightarrow$  Pipe B can fill the tank in  $x \times \frac{100}{150} = \frac{2x}{3}$

ATQ,

$$\frac{1}{x} + \frac{3}{2x} = \frac{1}{18}$$

$$\Rightarrow \frac{5}{2x} = \frac{1}{18}$$

$$\Rightarrow x = 45$$

Capacity of tank =  $45 \times 6 = 270$  l

**S10. Ans.(d)**

**Sol.** A + B =  $\frac{1}{12}$

A + B + C =  $\frac{1}{15}$

$$\Rightarrow C = \frac{1}{15} - \frac{1}{12} = \frac{4-5}{60} = \frac{-1}{60}$$

Pipe 'C' is an outlet pipe which can empty the tank in 60 minutes.

B + C =  $\frac{1}{30}$

$$B = \frac{1}{30} + \frac{1}{60} = \frac{2+1}{60} = \frac{1}{20}$$

A + B =  $\frac{1}{12}$

$$A = \frac{1}{12} - \frac{1}{20} = \frac{5-3}{60} = \frac{2}{60} = \frac{1}{30}$$

Pipe 'A' alone can fill the tank completely in 30 minutes.

**S11. Ans.(a)**

**Sol.** Let present age of P and Q be 'x' and 'y' years respectively.

ATQ,

$$x + y = 52 \dots (i)$$

and,

$$\frac{x+4}{y-2} = \frac{4}{5} \Rightarrow 5x + 20 = 4y - 8$$

$$\Rightarrow 5x - 4y = -28 \dots (ii)$$

From (i) and (ii)

$$x = 20 \text{ years.}$$

P's age 5 years hence = 25 years.

**S12. Ans.(d)**

**Sol.** Let present age of Ayush be x years and that of Veer be y years

ATQ,

$$\frac{x+1}{y-5} = \frac{1}{1}$$

$$\Rightarrow x - y = -6 \dots (i)$$

And,

$$x + y = 54 \dots (ii)$$

From (i) and (ii)

$$x = 24 \text{ years and } y = 30 \text{ years}$$

$$\text{Required ratio} = \frac{30}{24} = 5 : 4$$

**S13. Ans.(c)****Sol.** Let present age of Veer =  $7x$ And present age of Rohit =  $5x$ Present age of Arun =  $5x + 10$ 

ATQ,

$$\frac{7x-10}{5x} = \frac{16}{15}$$

$$\Rightarrow 105x - 150 = 80x$$

$$x = 6$$

Hence present age of Rohit =  $5 \times 6 = 30$  years**S14. Ans.(e)****Sol.** Let age of Abhi and Rahul seven years ago be  $5x$  and  $3x$  respectively.

ATQ,

$$\frac{5x+15}{3x+15} = \frac{3}{2}$$

$$x = 15$$

Present age of Sati

$$= \frac{15 \times 8 + 14}{2} = 67 \text{ years.}$$

**S15. Ans.(b)****Sol.** Let present age of Mohan =  $x$ 

So, ATQ

$$\frac{5}{6} \times x = x - 5$$

$$x = 30$$

His wife's age =  $30 - 3 = 27$ **S16. Ans.(c)****Sol.** Let Rahul's age =  $x$  years.Then, Aman's age =  $2x$  yearsArun's age =  $x - 5$ 

ATQ,

$$2x + x + x - 5 = 79$$

$$x = 2 \text{ years}$$

Required difference =  $2x - (x - 5) = 26$  years

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**S17. Ans.(e)****Sol.** Let present age of Anurag is ' $x$ ' years

ATQ—

$$x - 10 = 8 + \frac{x}{2}$$

$$2x - 36 = x$$

$$x = 36 \text{ years}$$

Let Mohit's age =  $y$ 

ATQ—

$$\frac{36-4}{y-2} = \frac{8}{7}$$

$$224 = 8y - 16$$

$$y = 30 \text{ years}$$

Let Ayush's age =  $z$ 

ATQ—

$$\frac{30+6}{z+6} = \frac{3}{2}$$

$$72 = 3z + 18$$

$$z = 18 \text{ years}$$

Required difference =  $36 - 18 = 18$  years**S18. Ans.(d)****Sol.** Let present age of Shikha & Deepak be  $s$  &  $d$  respectively

ATQ—

$$(s - 6) = d + 2$$

$$s - d = 8 \text{ ----- (i)}$$

$$\text{Also, } \frac{(d+4)}{(s+2)} = \frac{4}{5}$$

$$5d + 20 = 4s + 8$$

$$4s - 5d = 12 \text{ ----- (ii)}$$

From (i) &amp; (ii) we get -

$$d = 20 \text{ years}$$

So, present age of Deepak = 20 years

**S19. Ans.(e)****Sol.** Age of Ayush =  $\frac{50}{2} + 11 = 36$  yearsAge of Abhishek =  $\frac{3}{4} \times 36 = 27$  years.Required difference =  $36 - 27 = 9$  years.**S20. Ans.(e)****Sol.** Sum of age of A, B and C = 99 yearLet age of B and C is  $11x$  and  $13x$  respectively and age

$$\text{of A} = \frac{(A + 11x)}{2} \times \frac{90}{100}$$

$$20A = 9A + 99x$$

$$11A = 99x$$

$$A = 9x$$

$$\text{So, } 9x + 11x + 13x = 99$$

$$x = 3$$

Average age of A & C is  $11x$ 

Average age is = 33 years.

**S21. Ans.(e)**

**Sol.** Amount invested by Man in each Part =  $\frac{9600}{2} = 4800$

Rs

ATQ -

$$\frac{4800 \times 12.5 \times T}{100} + \frac{4800 \times 16 \times (T + 2)}{100} = 4272$$

$$600T + 768T + 1536 = 4272$$

$$1368T = 2736$$

$$T = \frac{2736}{1368}$$

$$T = 2 \text{ years}$$

**S22. Ans.(c)**

$$\text{Sol. } \frac{P \times 15 \times 2}{100} + \frac{(P+800) \times 8.5 \times 2}{100} = 4836$$

$$\frac{30P}{100} + \frac{17P + 13600}{100} = 4836$$

$$47P = 483600 - 13600$$

$$47P = 470000$$

$$P = 10000 \text{ Rs}$$

$$\text{Amount invested by veer at rate of } 8.5\% = (P + 800)$$

$$= (10000+800)$$

$$= 10800 \text{ Rs}$$

**S23. Ans.(e)**

**Sol.** Let man invested for T year and at the rate of R% per annum

$$\text{Given, } T = \frac{R}{4}$$

ATQ -

$$\frac{8500 \times \frac{R}{4} \times R}{100} = 1360$$

$$R^2 = \frac{1360 \times 4}{85}$$

$$R^2 = 64$$

$$R = 8\%$$

$$\text{Time} = \frac{8}{4} = 2 \text{ years}$$

**S24. Ans.(b)**

**Sol.** Let Adarsh invested Rs 100x

For four years

ATQ -

$$100x + \frac{100x \times R \times 4}{100} = 134x$$

$$4R = 34$$

$$R = \frac{34}{4}$$

$$R = 8.5\%$$

**S25. Ans.(c)**

**Sol.** Let total savings of man be Rs 100P

$$\text{amount invested in SBI} = 100P \times \frac{2}{5}$$

$$= 40P$$

$$\text{Amount invested in UBI} = 100P \times \frac{1}{5}$$

$$= 20P$$

$$\text{amount invested in BOB} = 100P \times \frac{2}{5}$$

$$= 40P$$

ATQ -

$$\frac{40P \times 20 \times 2}{100} - \frac{40P \times 12 \times 2}{100} = 672$$

$$16P - 9.6P = 672$$

$$6.4P = 672$$

$$P = \frac{672}{6.4}$$

$$P = 105 \text{ Rs}$$

Total interest got by man from UBI

$$= 10500 \times \frac{1}{5} \times \frac{16 \times 2}{100}$$

$$= 2100 \times \frac{32}{100}$$

$$= 672 \text{ Rs}$$

**S26. Ans.(a)**

**Sol.**  $x \times 4 \times 2100 + 1200 - x \times 5 \times 2100 = 110$

$$8x + 12000 - 10x = 11000$$

$$2x = 1000$$

$$x = 500$$

hence,

Money lent at 4% is Rs 500

And lent at 5% is Rs 700

**S27. Ans.(a)**

**Sol.** Let the amount borrowed be Rs. x.

so,

$$8\% \times 4 \times x + 10\% \times 6 \times x + 12\% \times 5 \times x = 12160$$

$$32\% \times x + 60\% \times x + 60\% \times x = 12160$$

$$x = 8000$$

**S28. Ans.(a)**

**Sol.** Let, the amount invested in scheme B be Rs. 'x',

$$(13900 - x) \times 14 \times 2100 + x \times 11 \times 2100 = 3508$$

$$\text{or, } 13900 \times 14 - 3508 \times 50 = 3x$$

$$\text{or, } 19200 = 3x$$

$$\text{or, } x = 6400$$

**S29. Ans.(c)****Sol.** ATQ,

$$2000 \times x + 100 + 2000 \times x + 2100 + 2000 \times x + 4100 + 2000 \times x + 6100 + 2000 \times x + 8100 = 15000$$

$$\text{or, } 2000(100x + x + 2 + x + 4 + x + 6 + x + 8) = 15000$$

$$\text{or, } 5x + 20 = 1502$$

$$\text{or, } x = 11$$

**S30. Ans.(c)****Sol.** SI of 3 years = Rs. 3000SI for 2 years = Rs. 3000  $\times 2$  = Rs. 2000

SI for 2 years = Rs. 2000

CI for 2 years = Rs. 2050

difference = (2050 - 2000) = Rs. 50

Required rate% =  $\frac{50}{1000} \times 100 = 5\%$ 

According to the question,

5% of sum = 1000

$$\text{sum} = \frac{1000}{5} \times 100 = \text{Rs. } 20,000$$

**S31. Ans.(d)****Sol.** CP of 16 pencils =  $\frac{9}{12} \times 16 = \text{Rs. } 12$ SP of 16 pencils =  $\frac{12}{12} \times 16 = \text{Rs. } 16$ 

$$\therefore \text{Required profit percentage} = \frac{16-12}{12} \times 100 = 33\frac{1}{3}\%$$

**S32. Ans.(a)****Sol.** Let the milkman buy = y litre of milk.

At the rate of = x Rs./litre

$$xy - 5y = 300 \text{ ----- (i)}$$

$$6y - xy = 250 \text{ -----(ii)}$$

from solving equation (i) &amp; (ii)

$$y = 550 \text{ litre}$$

**S33. Ans.(c)****Sol.** S.P. of two articles = 4800 + 4800

= Rs 9600

$$\text{CP of first article} = \frac{100}{120} \times 4800$$

$$= 4000$$

CP of second article = 9600 - 4000 = 5600

$$\text{Required \% loss} = \frac{5600-4800}{5600} \times 100$$

$$= \frac{800}{5600} \times 100$$

$$= \frac{1}{7} \times 100$$

$$= 14\frac{2}{7}\%$$

**S34. Ans.(b)****Sol.** Manufacturer  $\xrightarrow{10\%}$  wholesaler  $\xrightarrow{15\%}$  retailer  $\xrightarrow{25\%}$  Rs. 1265

Let cost price be x. Then,

$$\therefore \text{Final price of the table} = \frac{110}{100} \times \frac{115}{100} \times \frac{125}{100} \times x = 1265$$

$$\therefore \text{Cost of production of the table} = \frac{1265 \times 100 \times 100 \times 100}{110 \times 115 \times 125} =$$

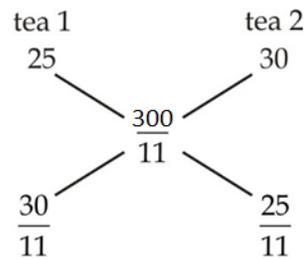
Rs. 800

**S35. Ans.(c)****Sol.** C.P. of mixture of tea

$$= 30 \times \frac{100}{110}$$

$$= \frac{300}{11} \text{ rupee/kg}$$

According to law of allegation



$$\therefore \frac{\text{tea1}}{\text{tea2}} = \frac{30}{25} = \frac{6}{5}$$

$$\therefore \text{Quantity of tea1} = \frac{6}{5} \times 30 = 36 \text{ kg}$$

**S36. Ans.(c)****Sol.** Let article brought = 100x

Let price of each articles = y

Total cost = 100xy

60% sold at total cost price

$$\rightarrow 60x \rightarrow 100xy$$

Now,

40x at 10% profit

$$= \frac{40 \times xy \times 110}{100}$$

$$= 44xy$$

Total profit = 44xy

$$\text{Profit\%} = \frac{44xy}{100xy} \times 100$$

$$= 44\%$$

**S37. Ans.(d)****Sol.** Total profit =  $\left(3x \times \frac{25}{100} + 5x \times \frac{10}{100} + 2x \times \frac{20}{100}\right) = 1.65x$ 

x

$$\text{Required profit \%} = \frac{1.65x}{10x} \times 100 = 16.5\%$$

**S38. Ans.(b)****Sol.** Let SP of article be Rs  $8x$ 

$$CP = 8x \times \frac{7}{8} = \text{Rs. } 7x.$$

$$\text{New SP} = 8x \times 1.25 = \text{Rs } 10x$$

ATQ

$$3x - x = 68$$

$$x = 34$$

$$SP = 8 \times 34 = \text{Rs } 272$$

**S39. Ans.(b)****Sol.** Let the cost price and selling price of B be Rs  $x$  and Rs  $y$  respectively

$$CP \text{ of A} = (x+600)$$

$$\text{And SP of A} = (y+1200)$$

$$\text{Difference of their profits} = (y + 1200 - x - 600) - (y - x) = 600$$

ATQ

$$(x + 600) \times \frac{40}{300} = 600$$

$$x = 3900$$

$$\text{Profit earned of B} = 4500 \times \frac{1}{3} - 600 = \text{Rs } 900$$

**S40. Ans.(e)****Sol.** Given, cost price of pen =  $x$  Rs. And SP = Rs 128

ATQ -

$$x \left( 1 + \frac{(x-20)}{100} \right) = 128$$

$$100x + x^2 - 20x = 12800$$

$$x^2 + 80x - 12800 = 0$$

$$x^2 + 160x - 80x - 12800 = 0$$

$$x(x + 160) - 80(x + 160)$$

$$x = 80 \text{ Rs.}$$

$$\text{For 40\% profit Veer should sold the pen} = 80 \times \frac{140}{100} =$$

$$112 \text{ Rs.}$$

**S41. Ans.(c)**

$$\text{Sol. Total distance} = 8(5 - 3) = 16 \text{ km}$$

$$\text{Required time} = \frac{16}{(5+3)} = \frac{16}{8} = 2 \text{ hrs.}$$

**S42. Ans.(b)****Sol.** Let the speed of boat in still water be  $x$  km/hr and that of stream be  $y$  km/hr.

ATQ

$$(x + y) - (x - y) = 5$$

$$\Rightarrow y = 2.5 \text{ km/hr}$$

$$x = 2.5 \times 3.80 = 9.5 \text{ km/hr}$$

$$\text{required time} = \frac{42}{(9.5+2.5)} + \frac{31.5}{(9.5-2.5)} = 8 \text{ hr}$$

**S43. Ans.(e)****Sol.** Let speed of boat in still water be  $x$  km/hrAnd speed of stream be  $y$  km/hr.

ATQ,

$$y = \frac{1}{5}(x + y)$$

$$x = 4y$$

$$\frac{48}{4y-y} = 4$$

$$y = 4 \text{ km/hr}$$

$$x = 16 \text{ km/hr}$$

Speed of train A = 16 km/hr

$$\text{Length of train A} = 16 \times \frac{5}{18} \times 36 = 160 \text{ m}$$

**S44. Ans.(a)**

$$\text{Sol. Speed of boat in upstream} = \frac{36}{8} = 4.5 \text{ km/hr}$$

$$\text{Speed of boat in upstream} = \frac{36}{5} = 7.2 \text{ km/hr}$$

$$\text{Speed of stream} = \frac{7.2-4.5}{2} = 1.35 \text{ km/hr}$$

**S45. Ans.(d)****Sol.** Let speed of boat in still water be  $x$  km/hr and speed of stream be  $y$  km/hr.

ATQ,

$$\frac{164}{(x-y)} = \frac{150}{100} \times \frac{164}{(x+y)}$$

$$2(x + y) = 3(x - y)$$

$$\therefore x = 5y$$

$$\therefore x = 5 \times 10 = 50 \text{ km/hr}$$

$$\therefore \text{Required time} = \frac{100}{50} = 2 \text{ hr.}$$

**S46. Ans.(a)****Sol.** Let speed of boat in still water and downstream speed be  $3x$  &  $4x$  respectively

ATQ -

$$\frac{80}{3x} - \frac{80}{4x} = \frac{5}{3}$$

$$\frac{320-240}{12x} = \frac{5}{3}$$

$$x = 4 \text{ km/hr}$$

$$\text{Required time} = \frac{36}{3 \times 4 - (4-3) \times 4}$$

$$= 4.5 \text{ hours}$$

**S47. Ans.(a)****Sol.** Let speed of man in still water =  $x$  km/hrSpeed of current =  $y$  km/hrLet AB = BC =  $M$  km and AC =  $2M$  km

ATQ -

$$x + y = \frac{2M}{16} \dots (i)$$

$$x - y = \frac{M}{12} \dots (ii)$$

on solving (i) and (ii)

$$\frac{x}{y} = \frac{5}{1}$$

**S48. Ans.(c)****Sol.** Let length of train =  $x$  meter

$$x = 30 \times 54 \times \frac{5}{18} = 450 \text{ meter}$$

Time required to cross the platform

$$= \frac{450+180}{54 \times \frac{5}{18}} = \frac{630}{15} = 42 \text{ sec}$$

**S49. Ans.(c)****Sol.** Length of train =  $90 \times \frac{5}{18} \times 6$ 

$$= 150 \text{ m}$$

$$\therefore \text{length of platform} = \frac{5}{18} \times 90 \times 36 - 150$$

$$= 750 \text{ m}$$

**S50. Ans.(a)****Sol.** Let length of train A =  $3x$ Length of train B =  $5x$ 

$$\text{Speed of train A} = 72 \times \frac{5}{18} = 20 \text{ m/sec}$$

$$\text{Speed of train B} = 54 \times \frac{5}{18} = 15 \text{ m/sec}$$

ATQ,

$$\frac{8x}{20+15} = 16$$

$$\Rightarrow x = 70$$

$$\therefore \text{Length of train B} = 5 \times 70 = 350 \text{ m}$$

**S51. Ans.(a)****Sol.** Let length of slower train =  $\ell_1$ Length of faster train =  $\ell_2$ 

$$\therefore \ell_1 + \ell_2 = (5x - 4x) \times 30$$

$$4x = \text{speed of slower train}$$

$$5x = \text{speed of faster train}$$

$$= 30x \dots(i)$$

$$\text{And, } \ell_2 = 5x \times 4$$

$$= 20x$$

$$\therefore \ell_1 = 30x - 20x$$

$$= 10x$$

$$\therefore \frac{\ell_1}{\ell_2} = \frac{10}{20} = \frac{1}{2}$$

**S52. Ans.(c)****Sol.** Speed of man = 2 m/sec

$$\text{Speed of train} = 72 \times \frac{5}{18} = 20 \text{ m/sec}$$

$$\therefore \text{Length of train} = (20 - 2) \times 10 = 180 \text{ m}$$

$$\therefore \text{Length of tunnel} = 54 \times 20 - 180 = 900 \text{ m}$$

**S53. Ans.(c)****Sol.** Let length of Train A be ' $x$ ' meters and speed of Train A be ' $V$ ' m/sec.

So,

$$\frac{x}{V} = 9$$

$$x = 9V \dots(i)$$

Now,

$$\frac{x+180}{150 \times \frac{5}{18} - V} = 57.6$$

$$\Rightarrow \frac{3(x+180)}{125-3V} = 57.6 \dots(ii)$$

Put value of  $x$  in (ii)

$$\frac{3(9V+180)}{125-3V} = 57.6$$

$$\Rightarrow \frac{3V+60}{125-3V} = 6.4$$

$$3V + 60 = 800 - 19.2V$$

$$\Rightarrow V = \frac{100}{3} \text{ meter/sec}$$

Put value of  $V$  in (i)

$$x = 9 \times \frac{100}{3}$$

$$x = 300 \text{ meters}$$

$$\text{Required time} = \frac{180+300}{\frac{100}{3} + 150 \times \frac{5}{18}}$$

$$= \frac{480}{75}$$

$$= 6.4 \text{ seconds}$$

**S54. Ans.(d)****Sol.** let decrease in speed be  $D$ ATQ,  $D \propto \sqrt{N}$ 

$$D = k\sqrt{N}$$

$$56 - 40 = 16 = k\sqrt{4} \Rightarrow k = 8$$

Maximum reduction in speed will be 56 kmph.

$$56 = 8\sqrt{N} \Rightarrow N = 49$$

On attaching 49 wagons speed becomes 0 kmph.

Wagons that engine can carry =  $49 - 1 = 48$ .

TEST SERIES

**BILINGUAL**



**RBI**

**OFFICE ATTENDANT**

**Vacancies- 841**

**40 TOTAL TESTS**

**S55. Ans.(b)**

**Sol.** Suppose usual speed of the train is  $v$ . We observe that the difference in the time is because of the middle 300 km. In the first case train is running at normal speed and in the second case it is running at  $5/6^{\text{th}}$  of the normal speed.

According to question,

$$\frac{300}{\left(\frac{5}{6}v\right)} - \frac{300}{v} = 1$$

Hence

$$\Rightarrow v = 60 \text{ kmph}$$

**S56. Ans.(d)**

$$\text{Sol. Required time} = \frac{1000}{10} - \frac{1000}{(8+7)}$$

$$= \frac{1000}{30} \text{ sec}$$

$$= \frac{100}{3} \text{ sec}$$

**S57. Ans.(c)**

**Sol.** Required time = LCM of (24, 32, 56)

$$= 672 \text{ min}$$

$$= 11.2 \text{ hours}$$

**S58. Ans.(b)**

**Sol.** Let total distance =  $d$

$$\therefore \text{Average speed} = \frac{d}{\frac{d}{24} + \frac{d}{48}}$$

$$= 16 \text{ km/h}$$

**S59. Ans.(a)**

**Sol.** Speed in km/h of slower bus =  $20 \times \frac{18}{5} = 72 \text{ km/h}$

Speed in km/h of faster bus =  $25 \times \frac{18}{5} = 90 \text{ km/h}$

$$\therefore \text{Required time} = \frac{72 \times 2}{90 - 72}$$

$$= 8 \text{ h}$$

**S60. Ans.(a)**

**Sol.** Speed of Ajay =  $\frac{240}{8} \text{ km/hr}$

$$= 30 \text{ km/hr}$$

Speed of Ramesh =  $\frac{30}{2} \times 5$

$$= 75 \text{ km/hr}$$

Time required, traveling 780 km by Ramesh,

$$= \frac{780}{75}$$

$$= 10.4$$

$$10.4 = 10 \text{ hrs } 24 \text{ mins.}$$

**S61. Ans.(c)**

**Sol.** Height of cuboid =  $\frac{10 \times 10 \times 10}{8 \times 5} = 25 \text{ m}$

Surface area of cuboid =  $2(8 \times 5 + 5 \times 25 + 25 \times 8) = 730 \text{ m}^2$

S. A. of cube =  $6 \times 10 \times 10 = 600 \text{ m}^2$

$$\therefore \% \text{ change} = \frac{730 - 600}{600} \times 100 = 21 \frac{2}{3} \%$$

**S62. Ans.(b)**

**Sol.** Volume of cylinder =  $\pi r^2 h$  ( $r$ -radius,  $h$  - height)

Volume of sphere =  $\frac{4}{3} \pi r^3$

ATQ

$$\frac{\pi r^2 h}{\frac{4}{3} \pi r^3} = \frac{3}{1}$$

$$\Rightarrow \frac{h}{r} = \frac{4}{1} \Rightarrow h = 4r$$

T.S.A of cylinder =  $2\pi r(r+h)$

T.S.A of sphere =  $4\pi r^2$

$$\text{Required Ratio} = \frac{2\pi r(r+h)}{4\pi r^2} = \frac{4r+r}{2r} = \frac{5}{2}$$

**S63. Ans.(c)**

**Sol.** Side of triangle =  $\frac{48}{3} = 16$ ,

$\therefore$  side of square =  $\frac{125}{100} \times 16 = 20 \text{ m}$

$\therefore$  Required ratio =  $\frac{20 \times 20}{\frac{\sqrt{3}}{4} \times 16 \times 16} = \frac{25}{4\sqrt{3}} = 25\sqrt{3} : 12$

**S64. Ans.(b)**

**Sol.** Given, ratio of length to breadth = 11 : 5

Let length be  $11X$  and breadth be  $5X$

ATQ,

$\therefore$  Area of the rectangular field

$$= \frac{110}{0.50} \text{ sq meter}$$

$$= 220 \text{ sq. meter}$$

$$\therefore 11X \times 5X = 220$$

$$\Rightarrow 55X^2 = 220$$

$$X = 2$$

So, the breadth of the rectangle is

$$= 5 \times 2 = 10 \text{ m}$$

**S65. Ans.(e)**

**Sol.** Vol. of wooden block =  $7 \times 3 \times 3 = 63 \text{ cm}^3$

Vol. of pyramid =  $\frac{1}{3} \times 3^2 \times 7 = 21 \text{ cm}^3$

Wood wasted =  $63 - 21 = 42 \text{ cm}^3$

$$\therefore \% \text{ of wood wasted} = \frac{42}{63} \times 100 = 66 \frac{2}{3} \%$$

**S66. Ans.(d)**

**Sol.** Area of square =  $\frac{19200}{12} = 1600 \text{ m}^2$

Side of square field =  $\sqrt{1600} = 40 \text{ m}$

Length of rectangular field =  $40 + 8 = 48 \text{ m}$

Perimeter of rectangular field =  $2(48 + 24) = 144 \text{ m}$

Cost of fencing the rectangular field =  $144 \times 7.5 = 1080 \text{ Rs.}$

**S67. Ans.(e)**

**Sol.** ATQ,

Area of square = 2209

$a^2 = 2209$

$a = 47 \text{ cm}$

So, length of rectangle =  $47 - 5$   
= 42 cm

And breadth of rectangle = 47 cm

Radius of cylindrical toy = 42 cm

Height of cylindrical toy = 47 cm

So, required area =  $2\pi r (h + r)$

=  $2 \times \frac{22}{7} \times 42(47 + 42)$

= 23,496 cm<sup>2</sup>

**Q68. Ans.(c)**

**Sol.** Radius of cylinder = r

Then height of cylinder =  $\frac{3r}{2}$

Volume of cylinder =  $\pi r^2 h$

=  $\pi r^2 \times \frac{3r}{2}$

=  $\frac{3}{2} \pi r^3$

**S69. Ans.(d)**

**Sol.** Area of smaller circle =  $\pi(50)^2 = 2500\pi \text{ cm}^2$

Area of bigger circle =  $2500\pi \times \frac{169}{100} = 4225\pi \text{ cm}^2$

Let radius of bigger circle be 'R'

Given,

$\pi R^2 = 4225\pi$

$R^2 = 4225$

$R = 65$

Side of square =  $65 - 17 = 48 \text{ cm}$

**S70. Ans.(b)**

**Sol.** Lateral surface area of roller =  $2 \times \frac{22}{7} \times \frac{28}{2} \times 80 = 7040 \text{ cm}^2$

Total area covered by roller between point X & Y =  $7040 \times 450 = 3168000 \text{ cm}^2 = 316.8 \text{ m}^2$

So, total cost of levelling the road between point X & Y =  $316.8 \times 50 = 15840 \text{ Rs.}$

**S71. Ans.(a)**

**Sol.** Profit ratio of Amit to Hemant

=  $\frac{60000 \times 12 + 68000 \times 12 + 76000 \times 12 + 84000 \times 12}{80000 \times 24}$

= 9:5

So, difference between their profit =  $35000 \times \frac{9-5}{14}$

= Rs 10000

**S72. Ans.(b)**

**Sol.** Let investment of A, B, C be 2x, 5x and 7x respectively.

Let extra amount added by 'A' after six months be Rs. y  
ATQ,

$2x + y = \frac{1}{2} [5x + 7x]$

$2x + y = 6x$

$y = 4x$

Ratio of profit share

A -  $\frac{2x \times 6 + (4x + 2x) \times 6}{5x \times 12}$

= 48 : 60 : 84

C -  $\frac{7x \times 12}{7x \times 12}$  = 4 : 5 : 7

B's share of profit = Rs 4250

$\Rightarrow 5 \rightarrow 4250$

$\Rightarrow 1 \rightarrow 850$

$\Rightarrow (4 + 5 + 7) = 16 \rightarrow 16 \times 850 = 13600$

Total profit = Rs. 13600.

**S73. Ans.(a)**

**Sol.** Capital invested by Veer and Subham in the ratio of

=  $(3x \times 4 + 5x \times 6) : (1800 \times 12)$

= 42x : 21600

ATQ—

$\frac{42x}{21600} = \frac{7}{9}$

$x = \frac{2400}{6}$

$x = 400$

value of '5x' =  $400 \times 5$

= 2000 Rs.

**S74. Ans.(a)**

**Sol.** Amount invested by 'P', 'Q' and 'R' is Rs.5000, Rs. 4000 and Rs. 4500 respectively

Let R invested for 'y' months

Ratio of profit of 'P', 'Q' and 'R' be

P : Q : R

$5000 \times 8 : 4000 \times 5 : 4500 \times y$

8 : 4 : 0.9y

Let P, Q and R's amount in profit sharing be  $8z$ ,  $4z$  and  $(0.9y)z$  respectively

ATQ,

$$8z - 4z = 3200$$

$$\Rightarrow 4z = 3200$$

$$\Rightarrow z = 800$$

Also,

$$8z + 4z + (0.9y)z = 13920$$

$$\Rightarrow 12 \times 800 + 0.9y \times 800 = 13920$$

$$\Rightarrow 720y = 13920 - 9600$$

$$\Rightarrow 720y = 4320$$

$$\Rightarrow y = \frac{4320}{720}$$

$$\Rightarrow y = 6 \text{ months.}$$

R invested for 6 months.

**S75. Ans.(e)**

**Sol.** Let Rakesh's investment =  $x$

Ram investment = 31500

Shyam investment = 27000

Profit ratio

Rakesh : Ram : Shyam

$$x \times 12 : 31500 \times 8 : 27000 \times 8$$

$$3x : 63000 : 54000$$

Total profit  $\Rightarrow$  19200

Rakesh's profit = 75000

$$= \frac{3x}{3x+63000+54000} = \frac{7500}{19200}$$

$$\frac{3x}{3x+117000} = \frac{25}{64}$$

$$192x = 75x + 117000 \times 25$$

$$x = \frac{117000 \times 25}{117}$$

$$x = 25000$$

**S76. Ans.(b)**

**Sol.** Required probability =  $\frac{{}^6C_1 \times {}^2C_1}{{}^{52}C_2}$

$$= \frac{6 \times 2}{52 \times 51}$$

$$= \frac{1 \times 2}{6 \times 51} = \frac{2}{221}$$

**S77. Ans.(e)**

**Sol.** Required solution =  $\frac{6}{15} \times \frac{6}{15} \times \frac{6}{15} + \frac{4}{15} \times \frac{4}{15} \times \frac{4}{15} +$

$$\frac{5}{15} \times \frac{5}{15} \times \frac{5}{15}$$

$$\Rightarrow \frac{216+64+125}{3375} = \frac{3}{25}$$

**S78. Ans.(a)**

**Sol.** Total Possible outcome =  $2^3 = 8$

Possible outcome = 4 (HHH, THH, HHT, HTH)

$$\text{Required Probability} = \frac{4}{8} = \frac{1}{2}$$

**S79. Ans.(e)**

**Sol.** Probability of choosing a bag =  $\frac{1}{2}$

Probability of choosing two red balls from Bag - A =

$$\frac{{}^7C_2}{{}^{15}C_2} = \frac{21}{105} = \frac{1}{5}$$

Probability of choosing two red balls from Bag - B =

$$\frac{{}^x C_2}{{}^{x+7} C_2} = \frac{x(x-1)}{(x+6)(x+7)}$$

ATQ,

$$\frac{2}{15} = \frac{1}{2} \left[ \frac{1}{5} + \frac{x(x-1)}{(x+6)(x+7)} \right]$$

$$x = 3, -1$$

So, required numbers of balls is 3 as numbers of balls cannot be negative.

**S80 Ans.(b)**

**Sol.** required probability = 1 - probability of three boys in first three positions

$$= 1 - \frac{{}^{10}C_3}{{}^{13}C_3} = \frac{83}{143}$$

**S81. Ans.(c)**

**Sol.** Let quantity of water in first mixture be  $x$  liters

Then quantity of milk in the first mixture =  $(x+6)$  lit

Quantity of water added = 15 ltr

And quantity of milk added = 25 lit

ATQ

$$\frac{x+15}{x+6+25} = \frac{9}{13}$$

$$\Rightarrow x = 21$$

Total quantity of water in final mixture = 36 ltrs.

**S82. Ans.(b)**

**Sol.** Let quantity of milk and water be  $x$  lit and  $y$  lit respectively.

$$\text{Then } x + y = 100 \dots \dots \dots (i)$$

$$\text{And } x - y = 68 \dots \dots \dots (ii)$$

From (i) and (ii)

$$x = 84 \text{ \& } y = 16$$

ATQ

$$\frac{84-a}{16+a+15} = \frac{3}{2}$$

$$\Rightarrow 5a = 75$$

$$\Rightarrow a = 15 \text{ lit}$$

**S83. Ans.(d)**

**Sol.** Juice I 17 : 3

Juice II 9 : 1 or 18 : 2 (making total quantity of both juices same)

Both the juices are mixed in the ratio of 3:2

				Guava	Sugar	Pomegranate	
Juice I	17	3	3 =	51	9		
Juice II	18	2	2 =		4	36	
				51	13	36	= 100

**S84. Ans.(e)**

**Sol.** Let the price of other variety be Rs 'x' per kg

Then Atq

$$\frac{10 \times 2 + x \times 3}{5} = 12$$

$$x = \text{Rs. } \frac{40}{3}$$

**S85. Ans.(c)**

**Sol.** Let the quantity of milk and water in the mixture be  $3x$  and  $x$  respectively.

Then ATQ,

$$\frac{3x}{x+4} = \frac{7}{3}$$

$$9x = 7x + 28$$

$$2x = 28$$

$$x = 14$$

Water in the final mixture =  $14 + 4 = 18$  litres

**S86. Ans.(a);**

Maths	Phy.	Bio.
↓	↓	↓
500	700	800
40% inc ↓	↓ 50% inc	↓ 75% inc
700	1050	1400
New ratio = $70 : 105 : 140 = 2 : 3 : 4$		

**S87. Ans.(c)**

**Sol.** Quantity of water to be added.

Boys Girls

7 : 8

Let 700 800

840 880

New ratio =  $840 : 880 = 21 : 22$

**S88. Ans.(d);**

**Sol.**

Ravi : Sumit  
2 : 3

Let →  $2x$  ,  $3x$

+4000 ↓ ↓ +4000

$(2x+4000)$   $(3x+4000)$

$$\frac{2x+4000}{3x+4000} = \frac{40}{57}$$

$$114x + 228000 = 120x + 160000$$

$$6x = 68000$$

$$\text{So, } x = \frac{68000}{6}$$

$$\text{Sumits' salary} = 3x = 3 \times \frac{68000}{6} = \text{Rs. } 34000$$

**S89. Ans.(c); A B C**

Ratio of salaries  $2 : 3 : 5$

Let the salaries be 200 300 500

↓ 15% ↓ 10% ↓ 20%

$$230 \ 330 \ 600 = 23 : 33 : 60$$

**S90. Ans.(d);**

**Sol.** 25p, 10p and 5p coins are in the ratio of  $2 : 3 : 4$ .

So, number of 25p coins = 2 units

Its value =  $25 \times 2 = 50$  units

number of 10 p coins = 3 units

Its value =  $3 \times 10 = 30$  units

number of 5p coins = 4 units

Its value =  $4 \times 5 = 20$  units

Total value =  $50 + 30 + 20 = 100$  units = 50 Rs.

1 unit = 50p

value of 5p coins = 20 units =  $20 \times 50$  p.

$$\text{Number of 5p coins} = \frac{20 \times 50}{2} = 200$$

**S91. Ans.(e)**

$$\text{Sol. } \frac{40}{100} \times (X + 2000) = 1300 \Rightarrow X = 1250$$

$$\frac{60}{1200} \times (1250 + Y) = 1830 \Rightarrow Y = 1800$$

$$X : Y = 1250 : 1800 = 25 : 36$$

**S92. Ans.(e)**

$$\text{Sol. } 40 \times P = 75 \times Q$$

$$\Rightarrow 8P = 15Q$$

$$\text{Required percent} = \frac{15 \times 1.5Q}{20Q} \times 100 = 112 \frac{1}{2} \%$$

**S93. Ans.(b)**

**Sol.** Discount  $R_1 = 25\%$

$R_2 = 24\%$

$$\therefore \text{Equivalent discount} = -R_1 - R_2 + \frac{R_1 R_2}{100}$$

$$= -25 - 24 + \frac{25 \times 24}{100}$$

$$= -43$$

i.e discount = 43%

**S94. Ans.(d)**

**Sol.** Using the formula,

% reduction in consumption

$$= \frac{25}{(100+25)} \times 100$$

$$= 20\%$$

**S95. Ans.(b)**

**Sol.** Let total marks be  $x$

$$0.37x + 78 = 0.42x + 48$$

$$0.05x = 30$$

$$x = 600$$

$$\text{passing marks} \Rightarrow 0.42 \times 600 + 48$$

$$\Rightarrow 300$$

ATQ,

$$48\% \text{ of } 600 = 288$$

$$\text{She will fail by } (300 - 288) = 12 \text{ marks}$$

**S96. Ans.(b)**

**Sol.** ATQ,

$$\text{Total weight} = (40 \times 10) \text{ kg} = 400 \text{ kg}$$

When weight of heaviest and lightest student not taken into account then total weight

$$= (41 \times 8) = 328 \text{ kg}$$

So, weight of heaviest student + weight of lightest student =  $(400 - 328) = 72 \text{ kg}$

$$\Rightarrow 50 + \text{weight of lightest student} = 72$$

$$\text{weight of lightest student} = 22 \text{ Kg}$$

**S97. Ans.(c)**

**Sol.** Present total age of five employees =  $35 \times 5 + 50$

$$= 225 \text{ year}$$

Total age of seven employees =  $45 \times 7$

$$= 315$$

$$\text{Average Age of two new employees} = \frac{315 - 225}{2}$$

$$= 45 \text{ years}$$

**S98. Ans.(b)**

**Sol.** Total age of 25 men =  $60 \times 25 = 1500$

Total age of another 5 men =  $30 \times 5 = 150$

$$\text{Average age of total 30 men} = \frac{1500 + 150}{30} = \frac{1650}{30} = 55 \text{ yrs}$$

**S99. Ans.(d)**

**Sol.** since  $a$  is as much more than the average as  $c$  is less than average that means  $a, b, c$  are in A.P,  $b$  being its average or arithmetic mean

$$\text{i.e., } b = 35$$

**S100. Ans.(b)**

**Sol.** New average

$$= \frac{24 \times x + \frac{1}{4} \times x \times 6 - \frac{3}{4} \times x \times 4}{x}$$

$$= \frac{24x + 1.5x}{x} - 3$$

$$\Rightarrow 22.5$$



## English Language

**S1. Ans.(b)**

**Sol.** Refer to the last few lines of second paragraph of the passage "the MPC has said monetary policy can be effective only when private investment has revived, the banking sector's health is restored". Hence only sentence (iii) is correct.

**S2. Ans.(c)**

**Sol.** Refer to the first few lines of first paragraph "The Reserve Bank of India's decision to keep the policy interest rate unchanged, and reaffirm its "neutral" policy stance, clearly indicates that policymakers at the central bank are singularly focussed on their primary remit of ensuring price stability while supporting economic growth".

**S3. Ans.(a)**

**Sol.** The tone of the author here is descriptive as the author presents the detail report of the news.

**S4. Ans.(b)**

**Sol.** Refer to the last lines of first paragraph "And the elephant in the room, in the MPC's opinion, is the real prospect of inflationary spillovers from the rising risk of fiscal slippages caused by farm loan waivers". Hence sentence (b) is true.

**S5. Ans.(d)**

**Sol.** The author describes about the RBI's monetary policy decision of unchanging policy rates. Hence sentence (d) is the correct choice.

**S6. Ans.(e)**

**Sol.** All of the given statements are true in context of the passage.

**S7. Ans.(d)**

**Sol.** **Benign** means benevolent or favourable. Hence it has same meaning as **favourable**.

**Previsé** means predict.

**S8. Ans.(b)**

**Sol.** **Pertinent** means relevant or applicable to a particular matter; apposite. Hence it has same meaning as **appropriate**.

**Straggle** means an untidy or irregularly arranged mass or group.

**S9. Ans.(c)**

**Sol.** **Undergird** means provide support or a firm basis for. Hence it has opposite meaning as **undermine**.

**Fractious** means easily irritated or annoyed.

**Inure** means cause to accept or become hardened to.

**Construe** means make sense of.

**Enervate** means weaken mentally or morally.

**S10. Ans.(a)**

**Sol.** **Bottlenecks** means blockage/impediment. Hence it has opposite meaning as **aid**.

**Adamant** means refusing to be persuaded or to change one's mind.

**Admonish** means scold.

**Hapless** means unfortunate and deserving pity.

**S11. Ans.(b)**

**Sol.** Option (b) is the correct answer choice. Option (b) can be traced from the very line of the 1st paragraph of passage where it is stated as "Walking into S Saravanan's ongoing exhibition at Artworld: Sarala's Art Centre, is like entering a sandstorm; shades of yellow ochre engulf you."

**S12. Ans.(d)**

**Sol.** Option (d) is the correct answer choice.

Tactile- of or connected with the sense of touch.

Option (a) and (b) can be traced from the 2nd paragraph of passage where it is stated as "Yet, there is an insistence, an overpowering urge to touch the surface, like an old wound that demands to be caressed in order to aid memories. Made with texture white – a

multipurpose resin medium that aids in the development of textures – on canvas, the piece helps compose a movement, a back and forth, between two sensibilities; that of sight (the figure itself) and touch (the medium). This dance that pushes the viewer to physically engage with the works is mostly experienced with Saravanan's paintings in the exhibition." Option (c) can be traced from the last lines of the 2nd paragraph "The forests and sand take on such a tone at around four or five in the evening," he said. The piece's tactility is further enhanced by the decorative patterns that crowd the background of the otherwise softly contoured figure."

**S13. Ans.(b)**

**Sol.** Option (b) is the correct answer choice. Option (b) can be traced from the 1st paragraph of passage where it is stated as "Only by standing afar can one really see the figures – all angular and Picasso-esque – that comprise his works. Dream for instance, is one of the larger works in this show, depicting the full frontal face of a figure, the long eyelashes and circular patterns near the earlobes hinting at a feminine disposition."

**S14. Ans.(d)**

**Sol.** Option (d) is the correct answer choice. Option (a) and Option (b) can be traced from the last paragraph of passage where it is stated as "Whether through the forms themselves or through what they exemplify, Saravanan has portrayed generic aspects of tribal life. His paintings Tribals, Love, and Mother and Daughter among others, all delineate figures that are reflected in the metal relief works displayed at the other end of the gallery. Here, religious and mythological figures are given due consideration: Radha, Krishna, Ganesha and Buddha all form part of the artist's pantheon of tribal deities, in line with the general theme of the show."

**S15. Ans.(a)**

**Sol.** Option (a) is the correct answer choice. Option (a) can be traced from the last paragraph of passage where it is stated as "What would have bolstered Saravanan's remarkable tryst with forms is an anchoring into specificities of the regions that undoubtedly inspire him."

**S16. Ans.(a)**

**Sol.** Option (a) is the correct answer choice.

Disposition- a person's inherent qualities of mind and character

All the other given options are synonyms of the given word but in context of the law. So the suitable answer choice is option (a).

**S17. Ans.(d)**

**Sol.** Option (d) is the correct answer choice.

Emanates- (of a feeling, quality, or sensation) issue or spread out from (a source)

Ensnare- happen or occur afterwards or as a result.

Halt-bring or come to an abrupt stop.

Repress- subdue (someone or something) by force.

**S18. Ans.(c)**

**Sol.** Option (c) is the correct answer choice. Option (c) can be traced from the 5<sup>th</sup> paragraph of passage where it is stated as "While underground aquifers are exploited to exhaustion, the popular 'river-training' prescription imprisons our rivers within embankments, according to the inherited Western engineering canon that does not factor in the natural silt carried by rivers of the Himalaya."

**S19. Ans.(d)**

**Sol.** Option (d) is the correct answer choice. Option (b) can be traced from the 1<sup>st</sup> paragraph of passage where it is stated as "Ecological ruin is on a gallop across South Asia, with life and livelihood of nearly a quarter of the world's population affected. Yet, our polities are able to neither fathom nor address the degradation." Option (a) is stated in the first line of 2<sup>nd</sup> paragraph "Within each country, with politics dancing to the tune of populist consumerism, nature is without a guardian." Option (c) can be traced from the last line of the 2<sup>nd</sup> paragraph where it is stated as "Unfortunately, despite being a vast democracy where people power should be in the driving seat, the Indian state not only neglects its own realm, it does not take the lead on cross-border environmentalism."

**S20. Ans.(b)**

**Sol.** Option (b) is the correct answer choice. Option (b) can be traced from the 2<sup>nd</sup> paragraph of passage where it is stated as "The erosion of civility in geopolitics keeps South Asian societies apart when people should be joining hands across borders to save our common ground."

**S21. Ans.(b)**

**Sol.** option (b) is the most suitable answer choice.

'Done in'- extremely tired.

**S22. Ans.(e)**

**Sol.** option (e) is the most suitable answer choice as all the given statements are true. Option (a), (b) and (c) can be traced from the 4<sup>th</sup> paragraph where it is given as "On water, the subcontinent is running out of the resource due to the demands of industrialization and urbanization, and continuation of the colonial-era irrigation model based on flooding the fields. The economic and d

emographic forces are arrayed against the rivers and their right-of-way. In the hills, the Ganga in Uttarakhand and the Teesta of Sikkim are representative of rivers that have been converted into dry boulder tracts by 'cascades' of run-of-river hydroelectric schemes." Option (d) can be traced from the 5<sup>th</sup> paragraph where it is given as "Everywhere, natural drainage is destroyed by highways and railway tracks elevated above the flood line, and bunds encircling towns and cities. Reduced flows and urban/industrial effluents have converted our great rivers into sewers."

**S23. Ans.(d)**

**Sol.** Option (d) is the best answer choice here.

Gallop- a very fast pace of running

All the given options are the antonyms of the given word 'gallop' except option (d)

**S24. Ans.(e)**

**Sol.** Option (e) is the best answer choice here.

Fathom-understand (a difficult problem or an enigmatic person) after much thought

All the given options are different in meaning except 'understand'

**S25. Ans.(a)**

**Sol.** Perforce- used to express necessity or inevitability.

Subliminally- below the threshold of sensation or consciousness

Equivocally- in a deliberately ambiguous or questionable way

Option (a) is the best answer choice here.

**S26. Ans.(c)**

**Sol.** Denizens- a person, animal, or plant that lives or is found in a particular place

All the given options are the synonyms of the given word 'denizen' except option (c), 'alien'

**S27. Ans.(b)**

**Sol.** Fate- the development of events outside a person's control, regarded as predetermined by a supernatural power.

All the given options are either the synonyms or altogether different in meaning to the given word 'fate', except option (b).

**S28. Ans.(b)**

**Sol.** Arjun was one of the Pandav brothers having the eldest brother Dharamraj Yudhishtir. Therefore, Arjun wanted to remain loyal to his eldest brother who has the first right over the throne being the eldest son of the family. Refer to the first line of the 5<sup>th</sup> paragraph "*He could have been a great king in his own right, but he remained loyal to his elder brother Dharmaraj Yudhishtir who ascended the throne of Hastinapur by virtue of being the eldest in the family.*"

All the other options describe the characteristics of Arjun but fail to provide the precise reason. Hence, option (b) is the most suitable answer choice.

**S29. Ans.(d)**

**Sol.** In an agreement with Kaurwas, Pandavs accepted an exile of thirteen years i.e. to wander twelve years in forests while in the thirteenth year they had to disguise themselves. Arjun choose to transform himself as Brihannala. Following points helped him to disguise himself

(i) The curse of Urvashi that transformed Arjun into a eunuch for a year.

Refer to the 3<sup>rd</sup> line of the 4<sup>th</sup> paragraph "*Arjuna took advantage of the curse he got from Urvashi and turned himself into Brihannala, a eunuch and acted as dance master for the royal household, especially Uttara, the daughter of Virat.*"

(iii) Arjun has excellent skills in the arts of dancing, singing and acting.

Refer to the first line of the 4<sup>th</sup> paragraph "*Apart from archery, he also excelled in the arts of dancing, singing and acting which enormously helped the Pandavas when they had to stay in the court of Virat in total disguise as a part of their agreement with the Kauravas in the thirteenth year of their exile.*"

Hence, option (d) is the most suitable answer choice.

**S30. Ans.(c)**

**Sol.** Subhadra, Chitrangada and Draupdi were the wives of Arjun, however, Uttara was the wife Arjun and Subhadra's son Abhimanyu. Refer to the sixth line of the 4<sup>th</sup> paragraph "*After realizing that the five people who were working in his court were indeed Pandavas in disguise, king Virat offered to marry his daughter to Abhimanyu the son of Arjuna in return for the services rendered by the brothers*". Hence, option (c) is the most viable answer choice.

**S31. Ans.(c)**

**Sol.** Options (I) (II) and (IV) are described in the passage.

*Conscientious* means wishing to do one's work or duty well and thoroughly.

*Combatant* means a person or nation engaged in fighting during a war.

*Devotee* means a person who is very interested in and enthusiastic about someone or something.

Refer to the last line of the passage "*Arjuna serves as an example of a great human being, a dutiful householder, a loyal brother, a great warrior, a devout husband and a sincere devotee of God.*"

However, earnest means resulting from or showing sincere and intense conviction. The passage has not described anywhere regarding the firm beliefs of Arjun. Hence, option (c) is the most suitable answer choice.

**S32. Ans.(c)**

**Sol.** All the given statements are true in context of the passage, except for option (c).

For option (a) refer to 2<sup>nd</sup> line of 1<sup>st</sup> paragraph "*He was born to Kunti and and king Pandu with the energy of Indra, the leader of the gods*".

For option (b) refer to the last line of 2<sup>nd</sup> paragraph "*They were Abhimnyu through Subhadra and Bhabhruvahana through Chitrangada. Both his sons played an important role during the Mahabharata war.*"

For option (d), refer to the 2<sup>nd</sup> line of the last paragraph "*After the battle of Mahabharata, he assisted his brother greatly in expanding their empire by annexing several outlying kingdoms and defeating warring tribes.*"

For option (e) Refer to the 3<sup>rd</sup> line of 3<sup>rd</sup> paragraph "*During the same period he met with Indra and other gods in the heavens from whom he received training and also helped them in return by slaying some asuras.*"

However, option (c) is not true. Refer to the 4<sup>th</sup> line of 3<sup>rd</sup> paragraph "*While he was in the heavens he displeased Urvashi, the heavenly nymph, by turning away her advances.*"

Hence, option (c) is the most suitable answer choice.

**S33. Ans.(a)**

**Sol.** Wedlock means the state of being married. Nuptial means relating to marriage or weddings. Since both the words are synonyms of each other, option (a) is the most suitable answer choice.

**Hurdle** means a problem or difficulty that must be overcome.

**Godsend** means a very helpful or valuable event, person, or article.

**S34. Ans.(b)**

**Sol.** Pursuing means seek to attain or accomplish (a goal) over a long period. Seeking means attempt or desire to obtain or achieve (something). Since both the words are synonyms of each other, option (b) is the most suitable answer choice.

**Fleeing** means run away from a place or situation of danger.

**Assembling** means (of people) gather together in one place for a common purpose.

**S35. Ans.(e)**

**Sol.** Exile means the state of being barred from one's native country, typically for political or punitive reasons. Banishment means the punishment of being sent away from a country or other place. Since both the words are synonyms of each other, option (e) is the most suitable answer choice.

**Compliance** means the action or fact of complying with a wish or command.

**Domicile** means the country that a person treats as their permanent home, or lives in and has a substantial connection with.

**Salutation** means a gesture or utterance made as a greeting or acknowledgement of another's arrival or departure.

**S36. Ans.(d)**

**Sol.** Crucial means decisive or critical, especially in the success or failure of something. Insignificant means too small or unimportant to be worth consideration. Since both the words are antonyms of each other, option (d) is the most suitable answer choice.

**Requisite** means made necessary by particular circumstances or regulations.

**Compelling** means evoking interest, attention, or admiration in a powerfully irresistible way

**Pivotal** means of crucial importance in relation to the development or success of something else.

**S37. Ans.(b)**

**Sol.** Humility means the quality of having a modest or low view of one's importance. Vanity means excessive pride in or admiration of one's own appearance or achievements. Since both the words are antonyms of each other, option (b) is the most suitable answer choice.

**Diffidence** means modesty or shyness resulting from a lack of self-confidence.

**Timidity** means lack of courage or confidence.

**S38. Ans.(d)**

**Sol.** While the quantifier 'a little' means something that is not much in quantity, 'little' means something that is almost nil. In the case of sentence (IV), there is almost no knowledge of a certain fact.

Hence except (IV), all sentences are grammatically correct.

**S39. Ans.(c)**

**Sol.** "A good deal" is used as a quantifier with uncountable nouns, like work, writing, etc. The phrase, when not used as a quantifier, can simply mean a deal that is good, like in sentence (III). But the phrase cannot be used as a quantifier with countable nouns as in sentence (II). Hence all sentences except (II) are grammatically correct.



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**S40. Ans.(c)**

**Sol.** In case of sentence (I), replace 'were' by 'was' as "The Secretary and Treasurer" denotes the same person. However, if "The Secretary and the Treasurer" were used, then the verb "were" would have been correct as it denotes two different persons and in such cases, it takes plural verb.

e.g. The Secretary and Principal **has** come.

The Secretary and the Principal **have** come.

In sentence (III), remove 'to' after 'resembles' to make the sentence grammatically correct. "Resemble" is a Transitive Verb and thus it is always followed by Object and not 'to', 'with', etc.

e.g. She **resembles** her mother.

Hence only sentences (II) and (IV) are grammatically correct.

**S41. Ans.(a)**

**Sol.** In sentence (II), replace 'take' by 'takes' to make the sentence grammatically correct as "One of" is followed by a Plural Noun or Pronoun but it always takes Singular verb.

e.g. One of the volcanic eruptions **takes** place.

In sentence (III), 'you' should be followed by 'are' as "you" is such a Pronoun which acts the same way in both Nominative Case and Objective Case.

e.g. I like **him** more than **you**. [=I like **him** more than (I like) **you**.]

I like him more than **you do**. [=I like **him** more than **you** like **him**.]

In sentence (IV), replace 'his' by "one's" as when the subject of the sentence is "One" and it refers to 'anybody' then the possessive of 'one' is "one's".

e.g. **One** should be respectful to **one's** elders.

Hence only sentence (I) is grammatically correct.

**S42. Ans.(e)**

**Sol.** All the given sentences are grammatically correct.

**S43. Ans.(d)**

**Sol.** (a) "the options **is**" should be replaced by "the options **are**" as the subject of the verb 'options' is **Plural**. (b) The use of "**more**" is Superfluous as 'better' is a Comparative Adjective and the use of '**more**' before Comparative or the use of '**most**' before Superlative is incorrect to make its Double Comparative or Double Superlative. However, "**much, very much, far**" can be used before Comparative.

e.g. She is **much/very much/ far better** than you.

(c) Remove "the" before "justice" as 'justice' is an Uncountable Noun and generally, Uncountable Noun does not take any Article before it. However, it only takes '**the**' before it and that also when it has to make it **Definite**.

e.g. This is **the justice** done by him.

(d) The given sentence is grammatically correct.

**S44. Ans.(c)**

**Sol.** (a) Replace "off" by "out" as "fade" is never used with "off" whereas "**fade out**" means "**disappear slowly or become quieter**".

e.g. The music **faded out**.

(b) Use '**to**' before '**solve**' as "**either...or**" in the sentence is used to add two **Infinitives** i.e. "**either to comprehend or to solve...**" is the correct usage.

(c) The given sentence is grammatically correct.

(d) Use "**The**" before "**Judge**" as when a Common Noun is used in the form of Abstract Noun, then '**The**' is used before that Common Noun and the sentence structure goes like, "**The + Common Noun + in + somebody**".

e.g. **The patriot** in Bhagat Singh.

**The judge** in him.

**S45. Ans.(a)**

**Sol.** (a) The given sentence is grammatically correct.

(b) Remove '**as well**' from the sentence as the use of "as well" is Superfluous. Also, "**not only**" is used only with "**but also**".

(c) Use '**has**' before "**thrown**" as first part of the sentence talks about the past while the second part is of the Present incident i.e. "**this year**".

(d) Replace "provided" by "**to provide**" as "**The first task**" is an **Active Subject** for which the verb "Be" is used and the Complement for the verb "**Be**" requires Infinitive whose Object is "**sufficient arable land**".

**S46. Ans.(b)**

**Sol.** (a) Replace '**for**' by '**of**' as "**aware**" or "**awareness**" takes Preposition "**of**" with it.

e.g. I was **aware of** his laziness.

Her **awareness of** Indian culture is praiseworthy.

(b) The given sentence is grammatically correct.

(c) Use "**critical**" before "**conditions**" as 'critical' is an **Adjective** which signifies the Noun '**conditions**'. Hence it will be used before Noun.

(d) Replace 'Until' by 'As long as' as "until" means "up to (the point in time or the event mentioned)" while "As long as" means "during the whole time that."  
e.g. You can sit here **until** Mohan comes.  
**As long as** she is with me, I need not fear.

**S47. Ans.(e)**

**Sol.** (a) Replace 'with' by 'into' as 'venture' is not used with 'with' but "**venture into something**" is the correct usage.

(b) Use "The" before "Time" as in this sentence "**Time**" is **Definite**.

e.g. **The moment** he came, nobody was in the room.

(c) Replace "numbers" by "number" as "**A large, A vast, A great, A huge, A limited, A considerable**" are followed by "number" in **Singular form**.

(d) Replace "have been" by "were" as the incident happened in the past i.e. "**last month**". So it should take the verb of Simple Past.

**S48. Ans.(b)**

**Sol.** (I) Use 'a' before 'little' as '**little**' means '**almost none**' while '**a little**' means '**some**'. Hence "little water" means "almost no water" while "**a little water**" means "**some water**".

(II) The given sentence is grammatically correct. "**Prevail**" is followed by "**on**" or "**upon**".

(III) Replace "Unless" by "Until" as "**Unless**" means "if not" and it denotes the condition while "**Until**" means "up to the time when" and it denotes the time.

e.g. **Unless** you work hard, you will not succeed.

**Until** he comes, you should stay here.

**S49. Ans.(e)**

**Sol.** (I) Replace "roughest" by "rougher" as the phrase "than any other road in the city" denotes that the sentence is in **Comparative Degree**.

e.g. He is **better than any other player of this team**.

(II) Replace 'lot' either by "a lot" or "lots" as the plural of 'lot' is '**lots of**' or '**a lot of**'.

e.g. He has done **a lot of** work.

He has done **lots of** work.

(III) Replace "were" by "was" as when two Nouns or Pronouns are connected with "**as well as, in addition to, besides, like, unlike, with, together with, along with**", then the verb they are followed by depends on the **first Noun or Pronoun**.

e.g. **I**, [Pronoun (Subject)] along with my friends, **am** [Verb (Singular)] coming.

**S50. Ans.(c)**

**Sol.** (I) The given sentence is grammatically correct.

(II) The given sentence is grammatically correct.

(III) Replace 'for' by 'to' as the correct syntax is "**Subject + invite (somebody) to dinner/a function etc.**" e.g. **I invited him to dinner**. Or, "**Subject + To Be + invited + to + dinner/a function**" e.g. He was **invited to dinner**.

**S51. Ans.(d)**

**Sol.** (I) The given sentence is grammatically correct.

(II) Replace 'reached' by 'reach' as any form of Do [like - do, does, did] is followed by V1.

e.g. Hardly **does** he **come (V1)** to me.

Seldom **did** he **go (V1)** there.

(III) The given sentence is grammatically correct.

**S52. Ans.(e)**

**Sol.** All the given sentences are grammatically correct.

**S53. Ans.(b)**

**Sol.** The use of "back" after "returned" is not required as it is **Superfluous**. The word "**return**" itself means "**go back, come back, give back**".

**S54. Ans.(a)**

**Sol.** Replace 'than' by 'as' as in the case of **Positive Degree**, comparison between two persons or things follows the following syntax- "**as/so + Positive Degree + as**".

e.g. Ram is not **as/so handsome as** Mohan.

Sita is **as beautiful as** Mohini.

**S55. Ans.(d)**

**Sol.** Replace 'has' by 'have' as in this case "The majority" is used as **Noun of Multitude** and Noun of Multitude is considered as Plural which takes **Plural Verb** and **Plural Pronoun**. Also, the last part of the sentence has used the Plural Pronoun "**they**", so the Verb for "The majority" should also be **Plural**.

**S56. Ans.(c)**

**Sol.** Replace "there has not always been schools" by "there have not always been schools" as when "there" is used as **Introductory Subject** then the Verb it follows depends on the **Number** and **Person** of subsequent **Noun** and **Pronoun** it follows. In the first part of the sentence, the use of Verb "has" for the Subject "There" is **Singular** as it is followed by Singular Noun "**form**" but in the second part of the sentence, Subject "there" is followed by **Plural Noun** "**schools**"; so "there" should be followed by **Plural Verb**.

S57. Ans.(e)

Sol. All the given sentences are grammatically correct.

S58. Ans.(c)

Sol. Use 'than' after 'more beautiful' as the sentence is in Comparative and Positive Degree. The given sentence means - This young lady is **better than** (her youngest sister) but (this young lady is) not **so cultured as** her youngest sister = This young lady is **better than** but not **so cultured as** her youngest sister.

S59. Ans.(e)

Sol. All the given sentences are grammatically correct.

S60. Ans.(a)

Sol. Remove 'kindly' from the sentence as the use of "kindly/Please" in Active voice is stated as "you are requested" in the Passive form. As the sentence is in

Passive voice, remove 'Kindly' to make it grammatically correct.

e.g. **Please/Kindly** shut the door. [Active]

**You are requested** to shut the door. [Passive]

### Reasoning Ability

Solutions (1-5):

that → ma

books → co

are → he

good → mx

option/is → mh/ox

a/better → la/sa

pen → kl

of → ze

S1. Ans.(e)

S2. Ans.(e)

S3. Ans.(d)

S4. Ans.(a)

S5. Ans.(a)

Solutions (6-10):

Word	Code
Blue/dart	er/et
Wire	ol
Time	mz
Hard	ca
Money/badly	om/zc
Waste	bt
Mostly	sv
Sad	hx
Stand	nc

S6. Ans.(c)

S7. Ans.(c)

S8. Ans.(e)

S9. Ans.(d)

S10. Ans.(c)

Solution (11-15):

S11. Ans.(d)

S12. Ans.(b)

S13. Ans.(c)

S14. Ans.(d)

S15. Ans.(a)

Solution (16-20):

S16. Ans.(d)

Sol. I.  $N > R$  (False) II.  $V > T$  (False)

S17. Ans.(e)

Sol. I.  $F > I$  (True) II.  $J \geq H$  (True)

S18. Ans.(b)

Sol. I.  $M > P$  (False) II.  $O > Z$  (True)

S19. Ans.(c)

Sol. I.  $T = G$  (False) II.  $G < T$  (False)

S20. Ans.(b)

Sol. I.  $S < Q$  (False) II.  $X < S$  (True)

**Solutions (21-25):**

**S21. Ans.(c)**

**Sol.** \* 6 U J \$ V D >2 P 3 ! In this \* is 12th element and 2nd right of this is U.

**S22. Ans.(d)**

**S23. Ans.(a)**

**Sol.** Number- Vowel- No consonant. There is no such type of combination

**S24. Ans.(d)**

**Sol.** 1 @ 7, 7 < 9, 8 \* 6

**S25. Ans.(a)**

**Sol.** There is no such type of combination

**Solutions (26-30):**

**S26. Ans.(d)**

**Sol.** Number/letter Symbol Letter/Number 9 \$ F, 3 & D and 8 % V

**S27. Ans.(c)**

**Sol.** After dropping all the symbols from the arrangement

COM3D2EK9FNIT41UWH8VJ5Y67Z

So, I is the 12<sup>th</sup> from the left.

**S28. Ans.(b)**

**Sol.** ★ 7 Z

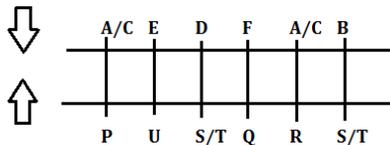
**S29. Ans.(e)**

**S30. Ans.(a)**

**Sol.** Tenth to the right of the Twenty first element from the right end.

I.e. Eleventh from the right and = H

**Solutions (31-35):**



**S31. Ans.(e)**

**S32. Ans.(d)**

**S33. Ans.(c)**

**S34. Ans.(b)**

**S35. Ans.(a)**

**Solutions (36-40):**

Students	Colors	Cities
L	Blue	Delhi
B	Green	Goa
R	Black	Patna
P	White	Lucknow
T	Red	Chennai
Y	Pink	Ranchi

**S36. Ans.(d)**

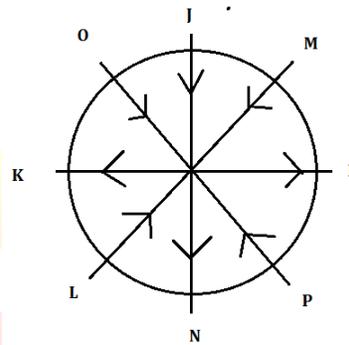
**S37. Ans.(b)**

**S38. Ans.(c)**

**S39. Ans.(a)**

**S40. Ans.(c)**

**Solutions (41-45):**



**S41. Ans.(e)**

**S42. Ans.(b)**

**S43. Ans.(d)**

**S44. Ans.(b)**

**S45. Ans.(c)**

**Solutions (46-50):**

Boxes
B
E
G
A
H
D
F
C

**S46. Ans.(d)**

**S47. Ans.(c)**

**S48. Ans.(a)**

**S49. Ans.(e)**

**S50. Ans.(c)**

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