

# SSC CGL (TIER-I) EXAM - PRACTICE SET

## Answers with Explanation

### General Intelligence

1. (d)
2. (b)  $4 \times 2 + 3 = 11$   
 $11 \times 3 - 2 = 31$   
 $31 \times 2 + 3 = 65$   
 $65 \times 3 - 2 = 193$   
 $193 \times 2 + 3 = 389$
3. (d)
 

L	A	M	P	→	P	A	L	M
└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	

Similarly,

M	A	L	E	→	E	A	M	L
└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	
4. (d)  $P - D \leftrightarrow B - L$   
 $T - N$

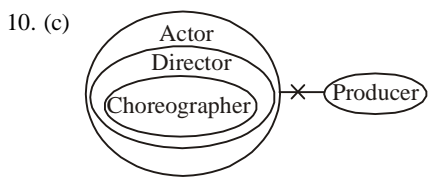
**ACHIEVERS In Focus**

5. (c)
6. (a)
7. (a)
8. (c)
 

D	O	L	P	H	I	N
+1↓	+1↓	+1↓	↓-1↓	↓-1↓	↓-1↓	↓-1↓
E	P	M	P	G	H	M

Similarly,

C	O	R	D	I	A	L
+1↓	+1↓	+1↓	↓-1↓	↓-1↓	↓-1↓	↓-1↓
D	P	S	D	H	Z	K
9. (a)  $12 \times 2 + \frac{12}{2} = 30$ ;  $30 \times 2 + 1 = 61$   
 Similarly,  
 $18 \times 2 + \frac{18}{2} = 45$ ;  $45 \times 2 + 1 = 91$



11. (c)
 

L	→ <sup>+2</sup>	N	→ <sup>+3</sup>	Q	Opposite Letter	J
B	→ <sup>+2</sup>	D	→ <sup>+3</sup>	G	Opposite Letter	T
T	→ <sup>+2</sup>	V	→ <sup>+3</sup>	Y	Opposite Letter	B

But,

H	→ <sup>+2</sup>	J	→ <sup>+3</sup>	M	Opposite Letter	N ≠ P
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12. (b)
13. (a)  $9 + 7 \times 5 - 18 \div 2 = 3 \times 4 - 10 + 45 \div 5$   
 After interchanging 7 and 4 we get  
 $9 + 4 \times 5 - 18 \div 2 = 3 \times 7 - 10 + 45 \div 5$

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- $$\Rightarrow 9 + 20 - 9 = 21 - 10 + 9$$
- $$\Rightarrow 20 = 20$$
14. (d)  $5^2 + 4^2 = 41$   
 $9^2 + 11^2 = 202$   
 Similarly,  
 $15^2 + 6^2 = 261$
  15. (d)

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16. (c) Required ratio =  $\frac{\frac{2}{3} + \frac{4}{9}}{\frac{1}{3} + \frac{5}{9}} = \frac{\frac{10}{9}}{\frac{8}{9}} = 5:4$

17. (a)
18. (a)  $\frac{(7+1)^2}{2} = 32$   
 Similarly,  
 $\frac{(13+1)^2}{2} = 98$
19. (d)

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20. (a)
21. (d)
22. (b)
 

P	E	N
×2	×2	×2
32	10	28

Similarly,

T	U	B
×2	×2	×2
40	42	4

23. (b)
 

C	→ <sup>+5</sup>	H	→ <sup>+5</sup>	M	→ <sup>+5</sup>	R	→ <sup>+5</sup>	W
X	→ <sup>-3</sup>	U	→ <sup>-3</sup>	R	→ <sup>-3</sup>	O	→ <sup>-3</sup>	L
B	→ <sup>+7</sup>	I	→ <sup>+7</sup>	P	→ <sup>+7</sup>	W	→ <sup>+7</sup>	D

24. (c)
25. (b) Palak's position from the right end  
 $= 74 - (27 + 7) + 1 = 41\text{th}$

### Quantitative Aptitude

1. (c)
2. (d) SI for  $\left(\frac{7}{2} - 2\right) = \frac{3}{2}$  yr  $\rightarrow (873 - 756) = 117$   
 SI for 1 yr  $\rightarrow \frac{117}{3} \times 2$   
 SI for 2yr =  $\frac{117}{3} \times 4 = 39 \times 4 = 156$   
 Principal =  $756 - 156 = 600$   
 Rate =  $\frac{156 \times 100}{600 \times 2} = 13\%$

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3. (b) A + B's one day's work  $\frac{1}{30}$

$$\text{Then work done by A and B in 20 days} = \frac{20}{30} = \frac{2}{3}$$

Remaining  $\left(1 - \frac{2}{3}\right)$  i.e.  $\frac{1}{3}$  work is  
completed by A in 20 days

Time taken by A to complete the work  
=  $20 \times 3 = 60$  days

$$\text{Time taken by B to complete the work} = \frac{30 \times 60}{60 - 30} = 60 \text{ days}$$

4. (d) Let the distance be  $x$  km and initial speed be  $y$  km/h  
According to the question,

$$\frac{x}{y} - \frac{x}{y+3} = \frac{40}{60} \dots\dots(i)$$

$$\text{and } \frac{x}{y-2} - \frac{x}{y} = \frac{40}{60} \dots\dots(ii)$$

From equations. (i) and (ii), we get

$$\begin{aligned} \frac{x}{y} - \frac{x}{y+3} &= \frac{x}{y-2} - \frac{x}{y} \\ \Rightarrow \frac{1}{y} - \frac{1}{y+3} &= \frac{1}{y-2} - \frac{1}{y} \\ \Rightarrow \frac{y+3-y}{y(y+3)} &= \frac{y-y+2}{y(y-2)} \end{aligned}$$

$$\Rightarrow 3(y-2) = 2(y+3)$$

$$\Rightarrow 3y - 6 = 2y + 6$$

$$\Rightarrow y = 12$$

Putting the value of  $y$  in equation (i), we get,  $\frac{x}{12} - \frac{x}{15} = \frac{40}{60}$

$$\Rightarrow \frac{5x - 4x}{60} = \frac{2}{3}$$

$$\Rightarrow x = \frac{2}{3} \times 60 = 40$$

5. (c) Let the speed of train B be  $y$  km/hr.

$$\frac{45}{y} = \sqrt{\frac{3 + \frac{1}{3}}{4 + \frac{4}{5}}}$$

$$\Rightarrow \frac{45}{y} = \sqrt{\frac{10}{3} \times \frac{5}{24}}$$

$$= \sqrt{\frac{25}{36}} = \frac{5}{6}$$

$$\Rightarrow \frac{45}{y} = \frac{5}{6}$$

$$\Rightarrow 5y = 45 \times 6$$

$$\Rightarrow y = \frac{45 \times 6}{5} = 54$$

6. (d) Given  $x = 3 + 2\sqrt{2}$

$$\begin{aligned} \frac{1}{x} &= \frac{1}{3 + 2\sqrt{2}} = \frac{1}{3 + 2\sqrt{2}} \times \frac{3 - 2\sqrt{2}}{3 - 2\sqrt{2}} \\ &= \frac{3 - 2\sqrt{2}}{9 - 8} \end{aligned}$$

$$\therefore x^3 + \frac{1}{x^3} = (3 + 2\sqrt{2})^3 + (3 - 2\sqrt{2})^3$$

$$\begin{aligned} &= 27 + 16\sqrt{2} + 3.9.2\sqrt{2} + 3.3.8 + 27 - 16\sqrt{2} - 3.9.2\sqrt{2} + 3.3.8 \\ &= 27 + 72 + 27 + 72 = 198 \end{aligned}$$

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

$$\begin{aligned} &= 27 + 16\sqrt{2} + 3.9.2\sqrt{2} + 3.3.8 - 27 + 16\sqrt{2} + 3.9.2\sqrt{2} - 3.3.8 \\ &= 16\sqrt{2} + 54\sqrt{2} + 16\sqrt{2} + 54\sqrt{2} \\ &= 140\sqrt{2} \end{aligned}$$

$$7. (d) a = \sqrt{7 + 2 \times \sqrt{4} \times \sqrt{3}} = \sqrt{4 + 3 + 2 \times 2 \times \sqrt{3}}$$

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$$= \sqrt{(2 + \sqrt{3})^2} = 2 + \sqrt{3}$$

$$\text{and } b = \sqrt{7 - 2\sqrt{12}}$$

$$= \sqrt{4 + 3 - 2 \times \sqrt{4} \times \sqrt{3}}$$

$$= \sqrt{4 + 3 - 2 \times 2 \times \sqrt{3}}$$

$$= \sqrt{(2 - \sqrt{3})^2} = 2 - \sqrt{3}$$

$$\therefore a + b = 2 + \sqrt{3} + 2 - \sqrt{3} = 4$$

$$ab = (2 + \sqrt{3})(2 - \sqrt{3}) = 1$$

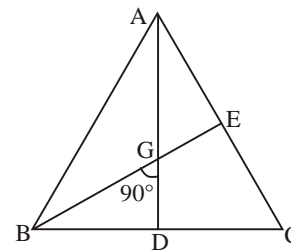
$$\therefore a^3 + b^3 = (a+b)^3 - 3ab(a+b)$$

$$= (4)^3 - 3 \times 1 \times 4$$

$$= 64 - 12 = 52$$

8. (c)

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AD = 9 cm

A centroid divides the median in the ratio 2 : 1

$$\therefore GD = \frac{1}{3} \times 9 = 3 \text{ cm}$$

$$\text{and } BG = \frac{2}{3} \times BE$$

$$\Rightarrow BG = \frac{2}{3} \times 6 = 4 \text{ cm}$$

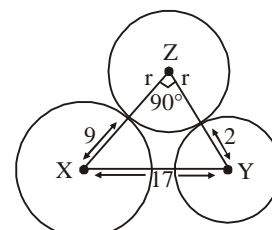
Now, in  $\triangle BDG$  by Pythagoras theorem,

$$BD^2 = BG^2 + GD^2$$

$$\therefore BD = \sqrt{3^2 + 4^2} = \sqrt{9 + 16}$$

$$\Rightarrow BD = \sqrt{25} = 5 \text{ cm}$$

9. (d)



In  $\triangle XYZ$

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By Pythagoras theorem

$$\therefore XY^2 = XZ^2 + ZY^2$$

$$\Rightarrow 17^2 = (9+r)^2 + (r+2)^2$$

$$\Rightarrow 289 = 81 + 18r + r^2 + r^2 + 4r + 4$$

$$\Rightarrow 2r^2 + 22r - 204 = 0$$

$$\Rightarrow r^2 + 11r - 102 = 0$$

$$\Rightarrow r^2 + 17r - 6r - 102 = 0$$

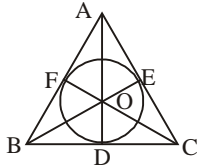
$$\Rightarrow r(r+17) - 6(r+17) = 0$$

$$\Rightarrow (r-6)(r+17) = 0$$

$$\Rightarrow r = 6$$

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10. (c)



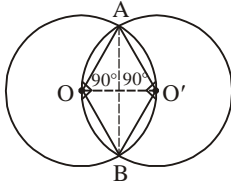
$$OD = OE = OF = 2 \text{ cm}$$

$$\text{Area of } \triangle ABC = (\text{Area of } \triangle AOB) + (\text{Area of } \triangle BOC) + (\text{Area of } \triangle AOC)$$

$$\Rightarrow 6 = \frac{1}{2} \times AB \times 2 + \frac{1}{2} \times BC \times 2 + \frac{1}{2} \times CA \times 2$$

$$\Rightarrow AB + BC + CA = 6 \text{ cm}$$

11. (c)



AOO' is an equilateral triangle and

BOO' is also an equilateral triangle

Area of quadrilateral AOBO'

$$= \text{area of } \triangle AOO' + \text{area of } \triangle BOO'$$

$$= \frac{\sqrt{3}}{4} a^2 + \frac{\sqrt{3}}{4} a^2$$

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$$= \frac{2\sqrt{3}a^2}{4} = \frac{\sqrt{3}}{2} a^2$$

12. (a) According to the question

$$\frac{1}{3} \times 30 \times \text{height} = 500$$

$$\therefore \text{Height} = \frac{500}{10} = 50 \text{ m}$$

13. (b) Let radius of the base of cylinder and cone be  $r_1$  and  $r_2$  and their heights be  $h_1$  and  $h_2$  respectively

$$\frac{r_1}{r_2} = \left( \frac{\sqrt{3}}{\sqrt{2}} \right) \text{ and } \frac{h_1}{h_2} = \left( \frac{\sqrt{2}}{\sqrt{3}} \right)$$

Required ratio

$$= \frac{\pi r_1^2 h_1}{\frac{1}{3} \pi r_2^2 h_2} = 3 \cdot \left( \frac{r_1}{r_2} \right)^2 \left( \frac{h_1}{h_2} \right)$$

$$= 3 \times \left( \frac{\sqrt{3}}{\sqrt{2}} \right)^2 \times \left( \frac{\sqrt{2}}{\sqrt{3}} \right)$$

$$= 3 \times \frac{\sqrt{3}}{\sqrt{2}} = 3\sqrt{3} : \sqrt{2}$$

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14. (d)

15. (c) Expression :  $x = 5 + \frac{1}{\sqrt{5}} + \frac{1}{5+\sqrt{5}} + \frac{3}{\sqrt{5}-5}$

$$x = 5 + \frac{1 \times \sqrt{5}}{\sqrt{5} \times \sqrt{5}} + \frac{1}{5+\sqrt{5}} \times \frac{5-\sqrt{5}}{5-\sqrt{5}} - \frac{3}{5-\sqrt{5}} \times \frac{5+\sqrt{5}}{5+\sqrt{5}}$$

$$= 5 + \frac{\sqrt{5}}{5} + \frac{5-\sqrt{5}}{20} - \frac{3(5+\sqrt{5})}{20}$$

$$= 5 + \frac{\sqrt{5}}{5} + \frac{5-\sqrt{5}}{20} - \frac{15+3\sqrt{5}}{20}$$

$$= \frac{100+4\sqrt{5}+5-\sqrt{5}-15-3\sqrt{5}}{20}$$

$$= \frac{90}{20} = \frac{9}{2}$$

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16. (d)

17. (d) Sum of 30 numbers =  $30 \times 15 = 450$

$$\text{Sum of first 18 numbers} = 18 \times 10 = 180$$

$$\text{Sum of next 11 numbers} = 11 \times 20 = 220$$

$$\therefore \text{Last number} = 450 - 180 - 220 = 50$$

18. (c) Let the number of males = x

$$\therefore \text{Number of females} = 9800 - x$$

According to the question,

$$x \times \frac{108}{100} + (9800 - x) \times \frac{105}{100} = 10458$$

$$\Rightarrow 108x + 9800 \times 105 - 105x = 1045800$$

$$\Rightarrow 3x + 1029000 = 1045800$$

$$\Rightarrow 3x = 1045800 - 1029000$$

$$\Rightarrow 3x = 16800$$

$$\therefore x = \frac{16800}{3} = 5600$$

19. (b) Now, the price of motorbike

$$= 62500 \times \left(1 - \frac{4}{100}\right) \left(1 - \frac{4}{100}\right)$$

$$= 62500 \times \left(1 - \frac{1}{25}\right) \left(1 - \frac{1}{25}\right)$$

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$$= 62500 \times \frac{24}{25} \times \frac{24}{25} = ₹57600$$

20. (a) Let CP of the article be ₹x, then

According to the question,

$$\frac{x \times \left(100 - \frac{25}{2}\right)}{100} + 51.80 = \frac{x \times 106}{100}$$

$$\frac{175x}{2 \times 100} + 51.80 = \frac{x \times 106}{100}$$

$$\Rightarrow \frac{175x}{200} + 51.80 = \frac{106x}{100}$$

$$\Rightarrow \frac{175x + 10360}{200} = \frac{106x}{100}$$

$$\Rightarrow 175x + 10360 = 2 \times 106x$$

$$\Rightarrow 212x - 175x = 10360$$

$$\Rightarrow 37x = 10360$$

$$\therefore x = 280$$

21. (b) Amount of alcohol in 20L of mixture

$$= 20\% \text{ of } 20\text{L}$$

$$= \frac{20 \times 20}{100} = 4\text{L}$$

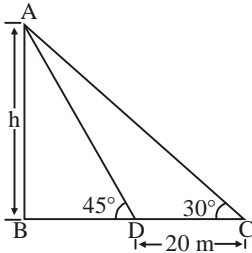
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$$\therefore \text{Water in the mixture} = 20 - 4 = 16\text{L}$$

Now, 4L water is further added  
 $\therefore$  Amount of water =  $16 + 4 = 20\text{L}$   
 Percentage of alcohol in new mixture  
 $= \frac{4}{24} \times 100 = \frac{100}{6} \%$   
 $= \frac{50}{3} \% = 16\frac{2}{3} \%$

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22. (d)



Let the height of pillar be  $h$  m.  
 In  $\triangle ABD$

$$\tan 45^\circ = \frac{h}{BD} \Rightarrow BD = h \dots (i)$$

In  $\triangle ABC$ 

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

$$\Rightarrow \frac{1}{\sqrt{3}} = \frac{h}{BD + 20}$$

$$\Rightarrow \frac{1}{\sqrt{3}} = \frac{h}{h + 20} \Rightarrow \sqrt{3}h = h + 20$$

$$\Rightarrow (\sqrt{3} - 1)h = 20$$

$$\Rightarrow h = \frac{20}{\sqrt{3} - 1}$$

$$= \frac{20}{\sqrt{3} - 1} \times \frac{\sqrt{3} + 1}{\sqrt{3} + 1}$$

$$= \frac{20(\sqrt{3} + 1)}{2} = 10(\sqrt{3} + 1)$$

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23. (a) Given  $\tan 15^\circ = 2 - \sqrt{3}$   
 then  $\tan 15^\circ \cdot \cot 75^\circ + \tan 75^\circ \cdot \cot 15^\circ$   
 $= \tan 15^\circ \cdot \cot (90^\circ - 15^\circ) + \tan (90^\circ - 15^\circ) \cdot \cot 15^\circ$   
 $= \tan^2 15^\circ + \cot^2 15^\circ$   
 $[\because \tan(90^\circ - \theta) = \cot \theta, \cot(90^\circ - \theta) = \tan \theta]$   
 Now,  $\tan 15^\circ = 2 - \sqrt{3}$   
 $\Rightarrow \cot 15^\circ = \frac{1}{2 - \sqrt{3}} = \frac{2 + \sqrt{3}}{(2 - \sqrt{3})(2 + \sqrt{3})} = 2 + \sqrt{3}$   
 $\therefore \tan^2 15^\circ + \cot^2 15^\circ$   
 $= (2 - \sqrt{3})^2 + (2 + \sqrt{3})^2$   
 $= [4 + 3 - 4\sqrt{3}] + [4 + 3 + 4\sqrt{3}]$   
 $= 7 + 7 = 14$

24. (a)

25. (a)

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### English

- (d)
- (a) The gift of the gab : the ability to speak with eloquence and fluency.  
 Therefore the correct is (a), The ability to talk fluently

3. (b)

- (b) The meaning of the word expedite is make (an action or process) happen sooner or be accomplished more quickly. Let's look at the meanings of the given options

**Hasten** be quick to do something.**Hinder** make it difficult for (someone) to do something or for (something) to happen.**Pretend** behave so as to make it appear that something is the case when in fact it is not**Accelerate** : to go faster to make something go faster or happen more quickly.

Among the given options 'hinder' is the most appropriate antonym of the given word

Hence option (b) is correct answer.

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- (c) The subject of the Passive Voice is changed into the object of the Active Voice. Also the object of the Passive Voice is changed into the subject of the Active Voice.

The removal of the 'to be' verb ('was' in this sentence) and the preposition 'by' is necessary while changing the voice of the sentence from Passive to Active.

The Passive voice in this question is in Past Indefinite. Thus the Active voice will also be in Past Indefinite.

In Passive voice, the format is Object of the Active voice (subjective case) + was /were + v3 + by + Subject of the Active voice (Objective case)

Thus, the format of Active voice is Subject + V2 + Object.

For example:

The Champions League was won by Real Madrid (Passive Voice)

Real Madrid won the Champions League (active voice)

The options except (c) don't follow the correct grammatical format of the Active Voice.

Therefore, the correct answer is option (c) The parents of the students demanded the fund management report of the school.

- (d) The concerned sentence with the given blank conveys that Dr. Fatima invented such a rocket that can carry humans to Mars and past it too. This meaning would be well conveyed by a verb which is used to display the action and the movement of humans is being talked about so 'power' whose one of the many meanings as a verb means to 'take/deliver/transfer something /one from one place to another' is the best fit. Other verbs 'impair' which means to 'weaken or damage', 'energise' which means to 'give enthusiasm' and 'disseminate' which means to 'spread' are eliminated.

Hence option (d) is correct

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- (b) Here, the sentence with the given blank conveys that the newly designed rocket uses the magnetic fields to move the plasma particles into the vacuum. This meaning would be well conveyed by a verb which is used to display the action and the movement of particles is being talked about. So 'shoot' whose one of the many meanings as a verb means to 'move in a particular direction.'

Hence, options (b) is correct.

- (c) An adjective will fit in this blank along with another adjective 'space-proven' before the noun phrase 'plasma

propulsion engines' because adjectives modify the nouns which follow them. This way, 'stream' can be eliminated because it is not an adjective 'Coarse' means 'granular' and can be eliminated on contextual grounds. Since the concerned sentence is making a comparison between the new engine and the existing ones. 'current' which means 'present-day' would be the correct choice.

Hence, option (c) is correct.

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9. (a) The sentence having the blank is referring to the process of using magnetic fields pervades everywhere in our universe, but is observable only in some specific areas/ points. To convey this meaning preposition 'throughout' is the best fit and rest all can be easily eliminated because they are inappropriate to fit in the given blank.

Through-moving in one side and out of the other side of (an opening, channel, or location).

Over-used to refer to the whole quantity or extent of a particular group or thing.

Hence option (a) is correct

10. (b) This sentence again is referring to the usage of magnetic fields which produce high amount of energy. To convey this meaning and an adjective is required to modify the noun 'energy' and 'enormous' which means 'vast' is the correct choice. 'Measurable' and 'finite' in a way produce the opposite meaning of what is required. 'Prodigy' (noun) means an outstanding example of a particular quality' and can be eliminated on the grammatical groups.

Hence, option (b) is correct.

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11. (a) 'Each other' denotes a mutual relationship between two people/things, while 'one another' denotes a mutual relationship among more than two things/persons 'All happy families' talks about many families, so the use of 'one another' is appropriate here and the plural verb 'are' is correct to be used with the plural noun 'families'

Hence, option (a) is correct.

12. (b) The construct 'after when' is grammatically incorrect. So the underlined part of the sentence is incorrect. The same is the case with option (c) and thus it is eliminated. The part that precedes the underlined segment is in the present perfect tense. 'When' can be used as a conjunction which means 'at the time that'. The tenses of both clauses shall be the same in such cases as they describe two actions that happened at the same time. Option (a) is in the past perfect tense. So, it can be eliminated, 'Since' is used to refer to a point in time. It is usually used with the present perfect tense.

So (b) is the correct choice.

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13. (b)

Word	Meaning
Petrology	The branch of science concerned with the origin, structure and composition of rocks
Zoology	The scientific study of the behaviour, structure, physiology, classification and distribution of animals
Odontology	The scientific study of the structure and diseases of teeth
Chronobiology	The branch of biology concerned with cyclical physiological phenomena

14. (c) The correct spelling of option (c) is 'lieutenant' 'Oculist' means a person trained and skilled in examining and testing the eyes for defects.

'Dairy' means a place, often a farm, where milk is processed and turned into products such as butter and cheese 'Lieutenant' is a rank of officer in the army.

'Symmetry' means the state of having two halves that match each other exactly in size shape, etc

Hence, option (c) is the answer.

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15. (d) The usage of phrase 'for years' and word 'this' hints towards the point that the sentence is in present perfect continuous tense as the physicists are struggling even today So to represent this, the order which is to be followed is 'has/have+been+V4' Of all the options only 'have been' can be used

16. (c) In the first blank 'to begin with' is a phrase that means used to introduce the first of several points.

Let's see an example

There were six of us. To begin with then two people left Hence, the correct answer is Option (c).

17. (b) In the given sentence the author put a question by saying that 'let us ask' hence to introduce another clause we need to use a conjunction. So the correct conjunction here is 'if' Let's see an example

I'll pay you double the amount if you get the work finished by Friday.

18. (d) Let's see the meanings of the given words

Nuances – A subtle difference in meaning, opinion or attitude.

Hints – Make an indirect suggestion intimate by a hint

Suggestions – An idea that is suggested

Connotations – What you must know in order to determine the reference of an expression

19. (b) We need to use a preposition that will connect the two nouns

Here, before the blank 'risk' is given that means the possibility of something. Hence when risk conveys this meaning we need to use a preposition 'of'

20. (a) Let's see the meanings of the given words :

Nostalgia – Longing for something past

Remorse – A feeling of deep regret (usually for some misdeed)

Sentimentality – Extravagant or affected feeling or emotion

Memories – The cognitive processes whereby past experience is remembered.

21. (b) In the underlined segment, the plural form of the verb 'are' is incorrect.

In the given sentence the noun 'milk' is an uncountable (non-countable) noun like water, snow, and rice

With fractions, percentages, and indefinite quantifiers the verb agrees with the preceding noun or clause

With a singular or non-count noun or clause use a singular verb.

With a plural noun use a plural verb.

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Therefore the singular form of the verb 'is' should be used in place of the plural form 'are'

22. (d) There is no error in this sentence and the sentence is grammatically correct.  
Therefore, the correct option is 'No substitution required'.  
Correct sentence : Nobody should expect to become successful without hard work.
23. (d) Mingling means 'to bring or mix together or with something else usually without fundamental loss of identity'.  
Marked option 'Merging' means 'to combine or join together or to cause things to do this'  
It's clear that 'Mingling' and 'Merging' are similar in meaning.
24. (c) Echoes means 'to repeat details that are similar to and make you think of something else (of a sound) be repeated or reverberate after the original sound has stopped'.  
Ex The design of the church echoes that of St. Paul's Cathedral.  
Marked option 'Repeat' means 'to say tell or do something again'  
Ex She repeated the question  
It's clear that 'Echoes' and 'Repeats' are similar in meaning.
25. (c) Let us look into the meaning of the given words :  
Colleagues – a person with whom one works in a profession or business  
Associates – a partner or companion in business or at work  
Contemporaries – a person or thing living or existing at the same time as another  
Acquaintances - a person one knows slightly, but who is not a close friend.  
From the above meanings it is clear that contemporaries is the best fit word for the given blank as the sentence mentions the two poets were from the same period.

### General Awareness

1. (d) The middle ear of human beings contains three tiny bones:  
Hammer (malleus) – attached to the eardrum.  
Anvil (incus) – in the middle of the chain of bones.  
Stirrup (stapes) – attached to the membrane-covered opening that connects the middle ear with the inner ear (oval window).
2. (b) The Floating Post Office is located in Dal Lake, Srinagar. It is claimed to be only post office in the world to be located on a lake. The post office has existed since British times. It was called Nehru Park post office before 2011.
3. (b) The Bori Wildlife Sanctuary is a wildlife sanctuary in Hoshangabad District of Madhya Pradesh state in central India. The sanctuary covers an area of 646 km<sup>2</sup> (249 sq mi), located in the northern foothills of the Satpura Range.
4. (c)
5. (b) Article 156 – Term of office of Governor  
Article 148 – Provisions of Comptroller and Auditor General of India  
Article 352 – proclamation of Emergency  
Article 280 – Provisions of Finance Commission
6. (a) Article 164(1A) provides that the strength of a council of ministers headed by the CM cannot exceed 15% of the strength of the assembly (the total number of MLAs) but

it can't be less than 12 members either.

As a real executive authority the Chief Minister is called the head of the government.

He is assisted by his council of ministers who are a part of the state executive along with Governor and Advocate General of State.

ACHIEVERS In Focus

7. (a) Paithani is a variety of sari, named after the Paithan town in Aurangabad, Maharashtra state where they are woven by hand. Made from very fine silk, it is considered as one of the most expensive saris in India. It is one of the most famous saris in India. It is also considered to be made from the finest silk in India.
8. (d) Hari Prasad Chaurasia is an Indian classical flautist, who plays the bansuri, an Indian bamboo flute, in the Hindustani classical tradition. He has been honoured with several awards of which the most prominent ones are the Padma Vibhushan, the second highest civilian award of India, and the distinction of 'Knight of the Order of Arts and Letters of France'.
9. (c) World Food Programme (WFP), organization was established in 1961 by the United Nations (UN) to help alleviate world hunger. Its headquarter are in Rome, Italy.
10. (c) A species of dolphin is found in the freshwater of the Ganges and Brahmaputra rives locally called Susu.
11. (b) When the government incurs more public expenditure for governmental projects then its expenditure exceeds its revenue, and this is called deficit financing.
12. (d) The siemens (symbolized S) is the Standard International (SI) unit of electrical conductance. The archaic term for this unit is the mho (ohm spelled backwards). Siemens are also used, when multiplied by imaginary numbers to denote susceptance in alternating current (AC) and radio frequency (RF) applications.
13. (c) According to the quantity theory of money, the general price level of goods and services is proportional to the money supply in an economy – assuming the level of real output is constant and the velocity of money is constant.
14. (c) The Indian Statutory Commission led by Sir John Simon was sent to Burma in January 1929 to review the political structure put in place in 1921, when the diarchy system was introduced through an extension of the Government of India Act to Burma.  
In 1930, the Simon Commission recommended the immediate separation of Burma from India but there was no clear political consensus to do so among the British, Indian and Burmese forces within Burma.  
The Government of Burma Act 1935 confirmed that separation would occur on April 1, 1937, ending 51 years of the country being ruled as a province of India.
15. (b) The Benson and Hedges Cup was a one-day cricket competition for first-class countries in England and Wales that was held from 1972 to 2002, one of cricket's longest sponsorship deals. It was the third major one-day competition established in England and Wales after the Sunday League and the Gillette Cup.
16. (b) The 'Religion of Man' is a 1931 compilation of lectures by Rabindranath Tagore, edited by him and drawn largely from



- his Hibbert Lectures given at Oxford University in May 1930.
17. (d) Selvas are the dense equatorial forests found in the Amazon basin in South America, hence option D is the correct answer.
18. (c) The 500<sup>th</sup> Community Radio Station in India, named 'Apna Radio 90.0 FM', was inaugurated at the Indian Institute of Mass Communication (IIMC) in Aizawl, Mizoram. The station is set to provide vital information in local languages, catering specifically to the needs of the local community, including daily weather updates, government schemes and agriculture-related information, thus playing a crucial role in regional development.
19. (b) Veteran filmmaker Shekhar Kapur, known for his acclaimed films such as 'Mr India', 'Bandit Queen' and 'Elizabeth', has been appointed as the festival director for the International Film Festival of India (IFFI). He will oversee the 55<sup>th</sup> and 56<sup>th</sup> editions of the festival, held annually in Goa. This appointment marks his return to IFFI, where he previously led the international competition jury.
20. (b) Sri Lanka achieved a historic victory by winning their first Women's Asia Cup title. They secured the championship by defeating India, who had previously appeared in nine finals and lost only twice. The final match, held at Rangiri Dambulla International Stadium in Sri Lanka, saw standout performances from Chamari Athapaththu and Harshitha Samarawickrama. Athapaththu was named Player of the Tournament and Samarawickrama, with a notable 69\*, was awarded Player of the Match.
21. (b) HS Dhaliwal, a 1997-batch IPS officer, was appointed as the new Director General of Police (DGP) of Andaman and Nicobar Islands on 25 July, 2024. Prior to this appointment, he served as the special Commissioner of Police in New Delhi, overseeing traffic zone II.
22. (c) Samvatsari Day is a traditional festival celebrated in Shwetambar sect of Jainism. It is celebrated as Kshamavani in the Digambara sect of Jainism. Samvatsari is observed to seek forgiveness for all thoughts, words or actions that hurt people knowingly or unknowingly. On this day, people seek Uttam Kshama (apologies) and send messages of Micchami Dukkadan, which translates to 'May all evil that has been done be forgiven'.
23. (a) Nita Ambani, IOC member and founder of the Reliance Foundation, inaugurated India House at the Paris 2024 Olympics on 27 July, marking a significant milestone for India. This is India's first country house at the Olympics, serving as a symbol of the nation's Olympic aspirations. India House is intended to be a "home away from home" for athletes, celebrating their achievements and providing a venue for cultural showcases and activities during the Games.
24. (c) External Affairs Minister S. Jaishankar unveiled a bust of Mahatma Gandhi in Tokyo's Edogawa ward. This event underscored Gandhi's global legacy and his enduring message of peace and non-violence. The ceremony took place during Jaishankar's visit to Japan for a Quad foreign ministers' meeting, with notable attendees including Edogawa ward's mayor Takeshi Saito and parliamentary vice minister of foreign affairs Masahiro Komura.
25. (d) In 2023, India became the second-largest user of anti-dumping measures globally, following the US. This marked a significant shift as India reduced its average tariffs to 17%, down from 18.1% in 2022, while simultaneously increasing its use of anti-dumping duties. India initiated 45 anti-dumping investigations and imposed duties in 14 cases.

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