

Home Assignment for SSC CHSL 2019-20 Exam Aspirants

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 Select the most appropriate meaning of the given idiom. At snail's pace Ao something very carefully be very persistent do something very slowly 	Nursery :a place where plants are grown, nurtured and sold out Warehouse :a building for storing goods Herbarium :a place for collection of dried plant specimens Hence, option D is the correct answer.
D. keep your moves secret Ans. C	5. Select the most appropriate word for the
`At snails pace' means doing any task at a very slow pace. So the correct answer will be option C.	One who is in charge of a museum or art gallery A. monitor B. curator
2. Direction: Select the most appropriate meaning of the given idiom Left-handed compliment	C. instructor D. collector Ans. B Sol. Let's first learn the meanings of the words:
A. praise that is given directly B. insulting someone in front of others C. insulting remark appearing as praise	Curator: One who is in charge of a museum or art gallery. Monitor: a person who observes a process
D. making fun of someone to tease them Ans. C Sol.	or activity to check that it is carried out fairly or correctly, especially in an official capacity.
Left handed compliment : insulting remark appearing as praise Hence option C is the correct answer.	Collector: a person who collects things of a specified type, professionally or as a hobby.
3. Select the most appropriate meaning of the given idiom. Mad as a hatter A superstitious B very upset	Something. Out of the given options "curator" is the best choice. Hence, option (B) is the correct
C. eccentric D. old fashioned Ans. C	6. Select the most appropriate antonym of
Sol. The idiom "mad as a hatter" refers to someone who is completely crazy; abnormal or insane. Thus, option C is the correct answer.	the given word. EXAGGERATE A. heighten B. amplify C. compress D. overdo Ans. C Sol.
 4. Direction: Select the most appropriate word for the given group of words Place for collection of dried plant specimens A. green house B. nursery C. warehouse D. herbarium Ans. D Sol. Let's understand the meaning of the given 	Exaggerate means to represent (something) as being larger, better, or worse than it really is. Compress means to decrease in size or volume and is the most appropriate antonym of the given word. Overdo means to do something to an excessive degree. Heighten means to increase or make
words:- Green house :a structure enclosed and used for the cultivation or protection of plants	something increase, especially an emotion or effect. Amplify means to increase in intensity. Hence, option C is the correct choice.



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7. Select the most appropriate antonym of Droll => curious or unusual in a way that the given word. provokes dry amusement Kinky => involving or given to unusual SPARSE A. dense B. strong sexual behaviour C. thin D. weak Common => normal, usual; not strange or Ans. A bizzare Sol. Grotesque => comically or repulsively ugly Sparse: not thickly grown or settled or distorted Dense: closely compacted in substance. So, option C is the correct answer. Strong: having the power to move heavy weights or perform other physically 10. In the following question, the sentence demanding tasks. given with blank to be filled in with an Thin: with opposite surfaces or sides that appropriate word. Select the correct are close or relatively close together. alternative out of the four and indicate it by Weak: lacking the power to perform selecting the appropriate option. physically demanding tasks; having little Please be patient. All your grievances will physical strength or energy. be Out of the given options "Dense" is the best A. settled B. satisfied choice. Hence, option (A) is the correct C. solved D. attended choice. Ans. A Sol. A grievance is a real or imagined cause 8. Choose the word which is nearly for complaint, especially unfair treatment. Grievances can neither be satisfied not opposite in meaning to the given word. Bland solved. They can either be settled or A. Blah B. Insipid attended to. Due to the missina C. Tame D. Lively preposition, option D can also be eliminated. Ans. D Sol. Bland = lacking strong features or Hence, option A is the correct answer. characteristics and therefore uninteresting. 11. In the following question, the sentence (नरम) given with blank to be filled in with an Blah = something which is boring or appropriate word. Select the correct without meaningful content. (बकवास) alternative out of the four and indicate it by Insipid = lacking flavor; weak or tasteless. selecting the appropriate option. (फीका) Ι my black leather shoes till they shine. Tame = not dangerous or frightened of B. rub A. scrub people; domesticated. (वश में करना) C. brush D. polish Lively = full of life and energy; active,Ans. D outgoing and interesting. (रोचक) Sol. For shine, the shoes are polished Hence, option D is the correct answer. specially the leather ones. They are neither scrubbed nor rubbed. Even brushing them 9. Select the most appropriate antonym of doesn't give a shine. the given word. Hence, option D is the correct answer. Outlandish A. Droll B. Kinky 12. **Direction:** In the sentence identify the C. Common D. Grotesque segment which contains the grammatical Ans. C error. Sol. Outlandish => looking or sounding The promoters of Med Hospitals has agreed bizarre or unfamiliar; strange and unusual to sell their business to Pal Hospitals.

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A. The promoters ofB. to sell their businessC. Med Hospitals has agreedD. to Pal HospitalsAns. C

Sol.

As per the subject verb agreement plural subject always takes the plural verb after it. Therefore, we need to replace has' with 'have' in the given sentence to make it grammatically correct.

Hence, option C is the correct choice.

13. In the following sentence, four words or phrases have been underlined. One of them is incorrect. Select the incorrect word or phrase from the given options.

<u>I am</u> certain <u>that</u> the officer <u>is</u> not only greedy <u>but corrupt</u>.

A. is	B. that
C. but corrupt	D. I am
Ans C	

Sol. The error is in option C. The correct structure is "not only....but also". So, the word "also" is missing after "but".

14. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A) At this speed the rocket soon attained the height of 190 miles above the earth.

B) At 9 am the great rocket lifted in the air with a mighty roar.

C) It rose smoothly at first, then quickened to a speed of 17,500 miles an hour.

D) Gagarin now pulled himself towards the window to look down.

A. ADBC	B. CBAD
C. BCAD	D. BADC
Ans. C	

Sol.

The correct rearrangement is BCAD.

The opening sentence gives us the idea of what the whole context is all about. The criteria is fulfilled by the sentence given in B.

Sentence B is followed by Sentence C which provides the details of the speed pertaining to the rocket with which it rose to the sky. The speed further makes its mention in the sentence A as can be seen from the lines 'At this speed'.

Sentence D ultimately becomes the last sentence in the sequence.

Hence, option C is the correct choice.

15. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A) But once when Mark disturbed the whole class with his pranks, I had to reprimand him.

B) He was in third grade when I taught at Saint Mary's School.

C) All 34 students were dear to me, but Mark Eklund, was one in a million.

D) He had a happy-to-be-alive attitude that made even his occasional mischievousness delightful.

B. BADC

D. CADB

Α.	CBDA	
C.	ADBC	

Ans. A

Sol. The correct rearrangement is CBDA.

The opening sentence gives us the introduction of the subject. If you pay attention to the sentences only sentence c gives us the introduction of Mark Eklund for whom 'he' is used as a pronoun in the other sentences.

The second sentence gives more details about the subject. Therefore, the second sentence would be sentence B.

Sentence B is followed by sentence D which talks about his behaviour.

The last sentence is sentence A which provides a contrast to the preceding sentence i.e., D. Hence, option A is the correct choice.

16. If $x^2 + y^2 + 2x + 1 = 0$, then find the value of $(x^{31} + y^{35})$. A. -1 B. 0 C. 1 D. 2 Ans. A Sol. $x^2 + y^2 + 2x + 1 = 0$ $(x+1)^2 + y^2 = 0$

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if sum of squares of two terms is 0, those terms are individually equal to 0. Hence

 $\begin{array}{l} x+1=0, \ x=-1 \\ y=0 \\ (x^{31}+y^{35})=(-1)^{31}+0 = -1 \end{array}$

17. A person can swim 60 km in 2 hrs 30 min in upstream. If speed of the person is 5 times of the speed of current, then what is the time required to cover this distance in downstream?

A.
$$1\frac{1}{3}hrs$$

B. $3\frac{1}{3}hrs$
C. 5 hrs
Ans. D

Sol. Let the speed of current be x km/h. Then, the speed of the person would be 5x km/h.

Speed of the person in upstream = $\frac{60}{25}$ = 24

km/h

According to the question

 $5x - x = 24 \implies 4x = 24$ $\therefore x = 6$

Speed of the person in downstream = 5x6 + 6 = 36 km/h

Required time = $\frac{60}{36} = \frac{5}{3} = 1\frac{2}{3}hrs$

18. A sum of money becomes Rs. 3100 in 3 years and Rs. 6789 in 7 years on compound interest. Find the rate of compound interest? A. 10.75 % B. 13.87 % C. 21.64 % D. 33.67 % E. 29.56 % Ans. C Sol. \Rightarrow If sum of money becomes Rs. x in t1 years and y in t2 years \Rightarrow Hence, y = Rs. 6789 \Rightarrow x = Rs. 3100 \Rightarrow t2 = 7 years, t1 = 3 years $\Rightarrow \left(1 + \frac{r}{100}\right)^{7-3} = \frac{6789}{3100} = \frac{219}{100}$



 $\Rightarrow \left(1 + \frac{r}{100}\right) = 1.21_{64}$ $\Rightarrow r/100 = 0.2164_{...r} = 21.64\%_{...r}$

Check in the options to find the approximate answer

19. The sides of \triangle ABC are 10 cm, 10.5 cm and 14.5 cm. What is the radius of its circumcircle? A. 7.5 cm B. 7.25 cm C. 5 cm D. 5.25 cm Ans. B Sol. The sides of \triangle ABC are 10 cm, 10.5 cm and 14.5 cm. These sides can be written as : 10 × 2 , 10.5 × 2 , 14.5 × 2 = 20 ,21 , 29 These sides form a triplet . Radius of circumcircle in case of right

angled triangle = $\frac{H}{2}$ = 7.25 cm

20. If $a^2 + \frac{1}{a^2} = 6$; then find $\frac{27a^3 + \frac{27}{a^3}}{a^4 + \frac{1}{a^4}}$? A. $135\sqrt{2}$ B. $\frac{135\sqrt{2}}{34}$ C. $\frac{135\sqrt{2}}{17}$ D. $\frac{270\sqrt{2}}{17}$ Ans. C Sol. Given that, $a^2 + \frac{1}{a^2} = 6$ We know, $\left(a + \frac{1}{a}\right)^2 = a^2 + \frac{1}{a^2} + 2$ $\Rightarrow \left(a + \frac{1}{a}\right)^2 = 6 + 2 = 8$

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$$\left(a + \frac{1}{a}\right) = 2\sqrt{2}\dots\dots(i)$$

Multiplying 3 on both sides of (i)

 $\Rightarrow \left(3a + \frac{3}{a}\right) = 6\sqrt{2}$

Taking cube on both sides \Rightarrow

 $27a^{3} + \frac{27}{a^{3}} + 3 \times 3a \times \frac{3}{a} \left(3a + \frac{1}{3a} \right) = 432\sqrt{2}$ $27a^{3} + \frac{27}{a^{3}} + 27 \times 6\sqrt{2} = 432\sqrt{2}$ \Rightarrow $27a^{3} + \frac{27}{a^{3}} = 432\sqrt{2} - 162\sqrt{2} = 270\sqrt{2} \dots$

Now take squares on both sides of given

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

$$\Rightarrow a^{4} + \frac{1}{a^{4}} + 2 = 36$$

$$\Rightarrow a^{4} + \frac{1}{a^{4}} = 34 \dots (iii)$$
From (ii) and (iii)
$$\therefore \frac{27a^{3} + \frac{27}{a^{3}}}{a^{3}} = \frac{270\sqrt{2}}{a^{2}} = \frac{135\sqrt{2}}{a^{3}}$$

 $a^4 + \frac{1}{a^4}$ 34 1721. Ram and Suresh are standing on two points 300 m apart from each other. They start running with speeds of 12 km/h and 15 km/h respectively in the same direction. What is distance covered by Suresh to

catch Ram?	
A. 2000 m	B. 1200 m
C. 1000 m	D. 1500 m
Ans. D	

Sol. speed of ram = 12km/h speed of suresh = 15km/h

Relative speed = $(15 - 12)^{18} = 6 \text{ m/s}$



Total distance between them = 300 m Required time = $\frac{300 \times 6}{5}$ = 360 sec Distance covered by Suresh = $15 \times \frac{5}{18} \times 360 = 1500$ m

22. A villager buys a goat and a sheep together for Rs 14,250. He sold the sheep at a profit of 10% and the goat at a loss of 20%. If he sold both the animals atthe same price, then what was the cost price of the cheaper animal?

Sol. 10% = 10/100 = 1/10

Means, if we say 10% profit it means there is a profit of 1 on every 10 Rs.

$$20\% = 20/100 = 1/5$$

and if we say 20% loss it means there is a loss of 1 on every 5 Rs.

Now, according to the question

On comparing C.P. and S.P. and on making selling price of Goat of Sheep same as per the question-

		C.P.	S.P.
Goat	→	5 _{×11}	4 _{×11}
Sheep	<i>→</i>	$10_{\times 4}$	$11_{\times 4}$
Goat	→	55	44
Sheep	→	40	44

So, our total CP becomes (40+55) if the selling price of both are same i.e. 44.

 $\begin{array}{c} \text{Total} \xrightarrow{} 95 & 88 \\ x^{150} \begin{pmatrix} 95 & 88 \\ 14250 & 13200 \end{pmatrix} x^{150} \end{array}$

 \therefore C.P of sheep = 40 units = 40×150 = 6000

23. In a triangle ABC, angle bisector of $\angle A$, $\angle B \& \angle C$ cuts circumcircle at X, Y, Z respectively. If $\angle CZY = 40 \& \angle A = 50$, then, find $\angle BYZ$? A. 30 degree B. 25 dgree

C. 20 degree	D. 60 degree
Ans. B	

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C. secθcosecθ Ans. A Sol.	D2
$(1 + \cot \theta - \csc \theta)$	$\theta (1 + \cos \theta + \sin \theta) \sec \theta$
$= \left(1 + \frac{\cos\theta}{\sin\theta} - \frac{1}{\sin\theta}\right)$	$\frac{1}{\theta} \Big) (1 + \cos \theta + \sin \theta) \sec \theta$
$\left(\sin\theta + \cos\theta - 1\right)$	1) $(\sin\theta + \cos\theta + 1)$
$-\sin\theta$	$\cos \theta$
$(\sin\theta + \cos\theta)^2$	-1
$=$ $\sin\theta.\cos\theta$	
$\sin^2\theta + \cos^2\theta +$	$-2\sin\theta.\cos\theta-1$
$-\sin\theta$.cos θ
$=\frac{2\sin\theta.\cos\theta}{2}=2$	2
$\sin\theta.\cos\theta$	
29. Simplify $\frac{\sin(x+x)}{\sin(y+x)}$	$\frac{z}{z} + \frac{\sin(x-z) + 2\sin x}{\sin(y-z) + 2\sin y}$?
_{A.} tan <i>x</i> tan <i>y</i>	B. $\frac{\sin x}{2}$
C. $\frac{\cos x}{\cos y}$	D. $\frac{\sin y}{\sin y}$
AIIS. D	

Sol.

$$\frac{\sin(x + z) + \sin(x - z) + 2\sin x}{\sin(y + z) + \sin(y - z) + 2\sin y}$$

$$= \frac{2\sin x \cos z + 2\sin x}{2\sin y \cos z + 2\sin y}$$

$$= \frac{2\sin x (\cos z + 1)}{2\sin y (\cos z + 1)}$$

$$= \frac{\sin x}{\sin y}$$
30. The value of

$$3\frac{1}{5} - \left[2\frac{1}{2} - \left\{\frac{5}{6} - \left(\frac{2}{5} + \frac{3}{10} - \frac{4}{15}\right)\right\}\right]$$
is:
A. $\frac{6}{5}$
B. $\frac{9}{10}$
C. $\frac{11}{10}$
D. $\frac{13}{5}$
Ans. C
Sol.
On simplifying the above expression
 $16/5 - 5/2 + 5/6 - 2/5 - 3/10 + 4/15$
 $(96 - 75 + 25 - 12 - 9 + 8)/30 = 33/30 = 11/10$





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