## SSC CHSL Tier-II Exam. Practice Set

## SSC CHSL Tier-II Exam.-এর পৃর্বের অংশ অ্যাচিভার্সের ১০৮ নং পাতায় দেওয়া আছে। এখানে অবশিষ্ট অংশ এবং ব্যাক্ষাসহ উত্তর দেওয়া হল।

## Module-II : Reasoning and General Intelligence

1. In a certain code language, PROMISE is written as WXTQLUF. How will MELTING be written in that language?
(a) SJPWKOG
(b) SKRZOTM
(c) TKQXLPH
(d) TLSAPUN
2. Read the below statements disregarding commonly known facts and then from the given four options, identify the Venn diagram that correctly represents the statements.

ख্যাভ্ভিস্ম

## Statements:

Some Shirts are Towels.
Some Towels are Gloves.
(a)

(b)

(c)

(d)

3. Two persons A and B, stand at the same point. A walks 5 km East, takes a right turn and walks 4 km and turns left and walks 3 km . B walks 3 km towards West, turns right and walks 5 km ; turns right again and walks 11 km . How far is A from B ?
(a) 8 km
(b) 13 km
(c) 11 km
(d) 9 km
4. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series.
$\mathrm{ab}_{-}$da _ bcda $\qquad$ cd _ _ bcd

काप्ভির্स
(a) bcbbaab
(b) bcabbab
(c) bcbbbab
(d) bcbabab
5. Read the given statements and conclusions carefully. Assuming that the information given in the statement is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

## Statements:

Few May is July.
खाणिির্स
All June is March.
Some July is June.

## Conclusions:

I. Few May is June.
II. No July is March.
III. Some March are June.
(a) Only I follows
(b) All the conclusions I, II and III follow
(c) Only conclusion III follows
(d) Either conclusion I or conclusion II follows
6. Select the Venn diagram that best illustrates the relationship between the following classes.
Oak, Maple and Furniture
(a)

(b)

(c)

(d)


## खुাভ্ভির্স

7. If 'H' denotes ' $\times$ ', 'J' denotes ' - ', ' $D$ ' denotes ' + ' and ' Y ' denotes ' $\div$ ', then what will be the value of the following expression?
105 J 29 H 96 Y 16 D 84
(a) 108
(b) 69
(c) 78
(d) 15
8. Which of the following options could be correctly depicted by the Venn diagram given below?

(a) Book, Copy, Student
(b) Mothers, Doctors, Women
(c) Letter, Post-office, Paper
(d) Musician, Teacher, Engineer
9. Six girl are standing in a circle facing to the the centre. Bindu is to the left of Viji. Rekha is in between Bindu and Mumtaz. Jessa is in between Viji and Nirmala. Who is to the left of Mumtaz?
(a) Rekha
(b) Bindu
(c) Nirmala
(d) Viji
10. Select the correct mirror image of the given combination when the mirror is placed at MN as shown.


कुण্ভির্জ
(a) $28 ؟!49$
(b) S8Sind
(c) 58 S [nd
(d) 58 cind
11. If in a code 134 stands for "good and tasteful", 478 means "looks good picture", 729 means "picture is blurry", then which digit means "looks"?
(a) 4
(b) 7
(c) 8
(d) 9
12. Select the correct mirror image of the given figure when the mirror is held at the right side.


फ़ाष्धिर्य
(a)

(b)

(c)

(d)

13. In the question below, which one of the given responses would be a meaningful order of the following words?

1. Shoulders
2. Forehead
3. Feet
4. Hips
5. Knees
फ़ाप्ञियन
(a) $2,1,5,4,3$
(b) $2,1,4,5,3$
(c) $2,1,3,4,5$
(d) $2,1,4,3,5$
6. Select the option that represents the letters which when sequentially placed from left to right in the blanks below will complete the letter series.

(a) K I L K L G K I
(b) K I L K L H K J
(c) K H L J L G K J
(d) K I L J L G K J
7. Three different positions of the same dice are shown, the six faces of which are numbered from 1 to 6 . Select the number that will be on the face opposite to the face having the number ' 6 '.

(a) 5
(b) 2
(c) 1
(d) 4
8. 'A \$ B' means ' A is the mother of B '.
' $\mathrm{A} \# \mathrm{~B}$ ' means ' A is the father of B '.
' $\mathrm{A} \& \mathrm{~B}^{\prime}$ means ' A is the brother of B '.
If $\mathrm{K} \# \mathrm{~N} \& \mathrm{Q} \$ \mathrm{~L} \& \mathrm{M} \& \mathrm{O} \$ \mathrm{P} \& \mathrm{R}$, then how is Q related to P ?
(a) Maternal grand mother
(b) Paternal grand father

कुष्ভिए
(c) Maternal grand father
(d) Paternal grand mother
17. The sequence of folding a piece of paper and the manner in which the folded paper has been cut
are shown in the following figures. How would this paper look when unfolded?


खुप्িिি
(a)

(b)

(c)

(d)

18. Avi is the daughter of Soni. Soni has two daughters. Renu is the daughter of Mani, who is the wife of Soni's only son. Ravi is parental grandfather of Renu. Then how is Soni related to Renu?
(a) Paternal Aunt
(b) Maternal grandmother
(c) Paternal grandmother
(d) Maternal Aunt
19. Direction : In the following questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.
121, 253, 374, 495, ? 2
(a) 565
(b) 523
(c) 5116
(d) 5102
20. Direction : In the following questions, a series is given, with one/two terms(s) missing. Choose the correct alternative from the given ones that will complete the series.
W-144, ?, S-100, Q-81, O-64
फाप्डिर्ज
(a) V-121
(b) U-122
(c) V-128
(d) U-121

Directions (21-25) : Study the given numerals and answer the following questions.
45364673654234536423578
36732123536567367364125 436
21. How many 3 's are followed by ' 6 ' but not preceded by '4'?
(a) 8
(b) 7
(c) 6
(d) 5
22. How many 2's are preceded by the 4 's but not followed by 5?
(a) 6
(b) 5
(c) 4
(d) 2
23. How many 5's are either followed or preceded by 3?
(a) 3
(b) 4
(c) 5
(d) 6
24. How many 4's are neither followed nor preceded by 6 ?

फाভ্ভির্ম
(a) 3
(b) 5
(c) 4
(d) 6
25. How many 7's are followed 3 and preceded by 6 ?
(a) 4
(b) 5
(c) 3
(d) 2

Directions (26-27) : In the following questions letters are given in the first line and number are given in the second line. Numbers are the codes for letters and letters are codes for the numbers. Given Codes :

| P | N | C | Y | A | D | J | R | L | Q |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 7 | 5 | 1 | 6 | 8 | 4 | 3 | 9 | 0 |

Choose the correct code as your answer from amongst the suggested answers (a), (b), (c) and (d).
26. R A P D C N
(a) 362587
(b) 362457
(c) 362875
(d) 362857
27. 915247
(a) L Y C P J N
(b) L Y C J P N
(c) L Y P C J N
(d) L Y C P R N
28. If DELHI is coded as 73541 and CALCUTTA as 82589662, then how would CALICUT be coded in that code?
(a) 5978213
(b) 8251896
(c) 8543691
(d) 5279431
29. Find the missing number from the given alternatives:

(a) 125
(b) 175
(c) 225
(d) 250
30. In this question, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabet as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its coloumn, e.g., 'A' can be represented by 02,14 , 40 , etc., and ' P ' can be represented by $56,75,87$ etc. You have to identify the set for the word 'TAKE'.

फাঙ্ভির্জ

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(a) $23,21,85,95$
(c) $04,33,66,99$

Matrix-II

|  | 5 | 6 | 7 | 8 | 9 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 5 | S | P | E | A | K |
| 6 | A | K | S | P | E |
| 7 | P | E | A | K | S |
| 8 | K | S | P | E | A |
| 9 | E | A | K | S | P |

(b) $30,33,87,88$
(d) $11,21,85,86$

## Section-II

## Module-I : English Language \& Comprehension

Directions (1-5) : Read the following passage carefully and answer the questions given below it. Certain words are printed in bold to help you locate them while answering some of the questions.
The balance wheel whirled and the rusty food pedal clattered up and down. The needle hopped over the smooth stitching pleats, folds and moving smoothly around the neckline. The reel of cotton thread jumped and shook on its needle stand. "Stop, you are making me dizzy", said the reel. "stop, grumbling, you foolish thing", said the pedal. "If anyone should grumble, it is me", said the small reel inside the bobbin. When the needle moved, it took the thread from the bobbin and made stitches under the cloth "I do all the important work and here I am stuck up day and night in this stuffy box. You all have a fine time sitting there staring at the world", he continued. ऊुप्ञिस "Now children", said the kindly old balance wheel,' 'You all know what important work the lady is doing today. She is stitching a school dress for her daughter who will be admitted in school tomorrow. We must all work hard and stitch it beautifully". "I have had enough food today. It is too hot here and I am tired of the needle poking his nose in all the time", said the small reel. "Listen my children", continued the old wheel. "I have been with this machine for about hundred years. At first we belonged to a dress maker. He made us work hard. One day this lady's grandfather come to the shop. He liked the machine and bought it. The old gentleman wanted his daughters to learn sewing but they did not use us much. Still, we were fed regularly with oil and cleaned by the servants for years. We have stood in this corner and seen many things. We saw the old gentleman die. His children then started quarrelling. Slowly they became poor. The servants were dismissed. Then one by one, the children went away and the house was closed. After many years this lady came with her husband. She had a daughter after a few years. The lady started using us after pouring oil into these old joints. She did not listen to her husband's suggestion to sell us off to a scrapdealer." As the wheel finished everyone was quiet for some time. Then the reel said, "We are very sorry and we would rather break into pieces than let down the lady." They all continued to work till the scissors snipped the thread and the beautiful dress was ready.

1. Why was the reel of thread feeling dizzy?
(a) It was moving on the needle stand.
(b) It was being shaken by the needle.
(c) It was being wound with thread.
(d) It was made to rotate at a very fast rate.
2. What was the lady doing on the sewing machine?
(a) She was stitching a dress for herself.
(b) She was winding cotton thread on the reel.
(c) She was stitching a dress to sell.
(d) She was stitching a school dress for her daughter.
3. Who brought the sewing machine to the house?
(a) The child's grandfather
(b) The lady's father
(c) The grandfather of the child's mother
(d) The lady's husband's father
4. Which of the following did not happen after the old gentleman's death?
(a) The infighting among his children.
(b) The cleaning of the machine by the servants.
(c) The gradual abandoning of the house by the children.
(d) The old man's children becoming economically weak.
5. Who is the narrator of the story of the lady's ancestors?
(a) The sewing machine.

फ़ाणिির্র
(b) The big reel of cotton thread.
(c) The pedal.
(d) None of these
6. Direction : In the following question, the sentence has error. Find out which part of a sentence has an error. The number of that part is your answer. If there is No error, the answer is (d).
After a carefully investigation (a)/ we discovered (b)/ that the house was infested with termites.
(c)/ No error. (d)
7. Direction : In the following question, a part of the sentence is printed in bold. Below are given alternatives to the bold part at (a), (b) and (c) which may improve the sentence. Choose the correct alternative. In case no improvement is needed your answer is (d).
Owing to the close affinity of the architect and the builder, the project was completed ahead of schedule.

आাড্ভির্ম
(a) termination
(b) cooperation
(c) collaboration
(d) No improvement
8. Direction : A sentence has been given in Active/ Passive Voice. Out of the four alternatives suggested below, select the one which best expresses the same sentence in Passive/Active Voice.
Before festivals the shops are thronged with men, women and children making various purchases.
(a) During festivals people throng the shops.
(b) Men, women and children throng the shops before festivals making various purchases.
(c) Men, women and children make purchases during festivals.
(d) The shops are througed by people making purchases.

खाणिিर्स
9. Everybody said, "How well she sings!"
(a) Everybody told us that she sings very well.
(b) Everybody exclaimed that she sings very well.
(c) Everybody exclaimed that she sang very well.
(d) Everybody told us that how she sang very well.
10. Direction : In the following questions, sentences are given with blanks to be filled in with an appropriate and suitable word. Four alternatives are suggested for each question. Choose the correct alternative out of the four.
$\qquad$ politicians are always respected.
(a) Conscious
(b) Conscientious
(c) Cautious
(d) Carefree
11. Direction : In the following question out of the four alternatives, choose the one which best expresses the meaning of the given word.
CANTANKEROUS
खुাড্ভির্স
(a) cancerous
(b) ferocious
(c) quarrelsome
(d) fissiparous
12. Direction : In the following question out of the four alternatives, choose the one which best expresses the meaning of the given word.
IRASCIBLE
(a) temperamental
(b) envious
(c) angry
(d) irritable
13. Direction : In the following question, choose the word(s) opposite in meaning to the given word. IDIOSYNCRASY
(a) insanity
(b) sanity
(c) generality
(d) singularity
14. Direction : In the following question, out of the four alternatives, choose the one which can be substituted for the given words/sentence.
In a threatening manner
(a) ominously
(b) sprightly
(c) ghastly
(d) terribly
15. Direction : In the following questions, four alternatives are given for the Idiom/Phrase printed in bold. Choose the alternative which best expresses the meaning of the Idiom/Phrase in bold. He expects his subordinates to be always at his beck and call

आাভ্ভির্ম
(a) at rest
(b) at work
(c) at his disposal
(d) at their desks
16. Direction : The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
Only five minutes/are allowed/for each speaker/ during the function.
(a) are allowed
(b) Only five minutes
(c) during the function
(d) for each speaker
17. Direction : The following sentence has been divided into parts. One of them may contain an error.
Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
The Prime Minister chair a high-level meeting/ with senior officials / to review the Covid situation.
(a) to review the Covid situation
(b) No error

फাে্ভির্স
(c) The Prime Minister chair a high-level meeting
(d) with senior officials
18. Direction : Select the most appropriate word to fill in the blank.
In the past month, the price of oil has $\qquad$ several times.
(a) fluctuated
(b) fumbled
(c) failed
(d) faltered
19. Fill in the blank with most appropriate word. Thunder and lightning was $\qquad$ with heavy rain.
(a) accorded
(b) accustomed
(c) accrued
(d) accompanied
20. Direction : Select the most appropriate ANTONYM of the given word. Curt
(a) Dismal
(b) Polite
(c) Rude
(d) Impolite
21. Direction : Select the most appropriate word to fill in the blank.
Schools will restart physical classes partially and states have $\qquad$ their own conditions and procedures to ensure the safety of students.
(a) insisted
(b) devised
(c) accepted
(d) adopted
22. In the given sentence, identify the segment which contains a grammatical error.
Please refrain to going out without a face mask.
(a) going out
(b) without a
(c) face mask
(d) Please refrain to
23. Direction : Select the option that expresses the given sentence in reported speech.
The new employee asked the manager, "When do I have to report for work?"
(a) The new manager asked the employee when he would report for work.

(b) The manager told the new employee when to report for work.
(c) The new employee asked the manager when he had to report for work.
(d) The new employee told the manager that when he had to report for work.
24. Direction : Given below are four sentences in jumbled order. Select the option that gives their correct order.
A. He seemed to remain that high for nearly two years.
B. Kari, the elephant was five months old when he was given to me to take care of.
C. We grew together, that is probably why I never found out just how tall he was.
D. I was nine years old and I could reach his back if I stood on tiptoe.
(a) BDAC
(b) ADCB
(c) DBCA
(d) BCAD
25. Direction : Given below are four sentences in jumbled order. Select the option that gives their correct order.

फुपाष्डिर्य
A. His school was closed as it was the height of summer.
B. It was on one such day that Ranji discovered a pool in the forest.
C. As he had no friends yet, he wandered alone in the hills and forests.
D. Ranji had been less than a month in Rajpur.
(a) BADC
(b) CBDA
(c) ACBD
(d) DACB
26. Direction : Select the most appropriate meaning of the given idiom.
To fish in troubled waters
खुप्डिस
(a) To take advantage of a difficult situation.
(b) To try to do something that is very difficult.
(c) To catch fish in stormy weather in the sea.
(d) To try to find a big catch in the deep sea.
27. Direction : Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.

खुাভিির্ম
A. This cooled off into the darkness after a few million years.
B. The first time was when the universe began its existence as a glowing fireball.
C. In the modern scientific story, the light was created not once but twice.
D. The second time was when the cold material condensed into dense nuggets and ignited to become the first stars.
(a) ABCD
(b) DBAC
(c) BADC
(d) CBAD
28. Direction : Select the INCORRECTLY spelt word.
(a) Ambush
(b) Disastrous
(c) Canfidents
(d) Provoke

खुपाष्पिर्य
29. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.
Did you do what I telling you to do yesterday?
(a) what I have told you
(b) No improvement
(c) what I told you
(d) that I am telling you
30. Direction : Select the correct indirect form of the given sentence.
Mother said, "All the guests will arrive tonight.
(a) Mother said that all the guests will arrive tonight.
(b) Mother said that all the guests would arrive that night
(c) Mother said that all the guests will arrive that night.
(d) Mother told that all the guests would arrive tonight.
Directions (31-35) : In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.
India remains one of the most ethnically diverse countries in the world. (31) $\qquad$ from its many religions and sects, India (32) $\qquad$ home to innumerable castes and tribes, as well (33) $\qquad$ to more than a dozen major and (34) $\qquad$ of minor linguistic groups from (35) $\qquad$ language families unrelated to one another.
31.
(a) Separate
(b) Together
कुाप्षिर्य
(c) Outside
(d) Apart
(a) were
(b) be
(c) am
(d) is

33
(a) as
(b) with
(c) so
(d) by
34. (a) hundreds
(b) loads
(c) sufficient
(d) ample

खुप्डिিर्य
35. (a) several
(b) abundant
(c) quite
(d) moderate

Directions (36-40) : In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.
Every Monday, on his way back from work, Bepin Chaudhury would drop in at Kali Charan's in New Market (36) $\qquad$ books. Crime stories, ghost stories, and thrillers. (37) $\qquad$ had to buy at least five at a time to last him (38) $\qquad$ the week. He lived alone, was not a good mixer, had few (39) $\qquad$ , and didn't like spending time in idle chat. Today, at KaliCharan's, Bepin Babu had a (40) $\qquad$ that somebody was observing him from close quarters.
36.
(a) buy
(b) bought
(c) to buy
(d) buying
37. (a) She
(b) Him
(c) They
(d) He
38.
(a) across
(b) by
(c) within
(d) through
39.
(a) students
(b) servants
(c) friends
(d) followers

खुाগिি
40.
(a) feeling
(b) intuition
(c) perception
(d) connotation

## Module-II : General Awareness

1. Right to property was removed from the list of Fundamental Rights during the rule of
(a) Indira Gandhi Government
(b) Morarji Desai Government
(c) Narasimha Rao Government
(d) Vajpayee Government
2. Who issued a token currency in copper coins between AD 1329 and 1330 ?
(a) Alauddin Khilzi
(b) Ghiyas-ud-din Tughlaq
(c) Muhammad-bin-Tughlaq
(d) Feroz Tughlaq
3. Consider the following geological phenomena :
I. Development of a fault
II. Movement along a fault

फ़ाप्डिस्स
III. Impact produced by a volcanic eruption
IV. Folding of rocks

Which of the above causes earthquakes?
(a) I, II and III
(b) II and IV
(c) I, III and IV
(d) I to IV
4. Gresham's Law means
(a) Good money replaces bad money in circulation
(b) Bad money replaces good money in circulation
(c) Good money promotes bad money in the system
(d) Bad money promotes good money in the system
5. Danger signals are generally red as red light
(a) is least bright
(b) undergoes least deviation

कुपाष्डिर्य
(c) has lowest velocity
(d) gives comfort to eye
6. What is the reason for twinkling of stars?
(a) Dispersion of light (b) Total internal reflection
(c) Atmospheric reflection
(d) Atmospheric refraction
7. A hydrogen balloon floats up because of
(a) air pressure decreases with decrease in height
(b) air pressure decreases with decrease in weight
(c) weight of the balloon is less than the weight of air displaced by it.
(d) the pressure inside the balloon is more than the pressure outside it
8. Smut of wheat is coused by
(a) Ustilago maydis
(b) Puccinia graminis
(c) Ustilago tritici
(d) Colletotrichum falcatum
9. What is a common name for the substance which irritates lachrymal glands?

फ্যাঙ্ভির্জ
(a) Tear Gas
(b) Laughing Gas
(c) Anaesthetic Gas
(d) Noble Gas
10. Atomic number of an atom gives the number of which of the following?
(a) electrons
(b) protons
(c) neutrons
(d) neutrons and protons
11. In July 2023, $\qquad$ became the first Indian city to be part of the World Cities Culture Forum (WCCF).
(a) Ahmedabad, Gujarat
(b) New Delhi, Delhi
(c) Bengaluru, Karnataka
(d) Chennai, Tamil Nadu
12. According to the State Bank of India's (SBI) Ecowrap report dated on 27th July 2023, India is set to become the world 3rd Largest Economy in
$\qquad$ (year).
(a) 2027
(b) 2028
(c) 2029
(d) 2030
13. In Which state, the 4th Environment and Climate Sustainability Working Group (ECSWG) and Environment and Climate Ministers' meeting was held in July 2023?
(a) Tamil Nadu
(b) Maharashtra
(c) Kerala
(d) Andhra Pradesh
14. Which company has recently Commissioned India's First Transnational Power Project to Bangladesh from Ultra Super-Critical Thermal Power Plant (USCTPP) in Godda, Jharkhand?
(a) TATA Group
(b) Reliance Industries Limited
(c) Adani Group
(d) Larsen \& Toubro Limited
15. Which Bank has recently announced its support for India's National Green Hydrogen Mission with a substantial loan of up to EURO 1 billion to boost green hydrogen and renewable energy projects in India?
(a) European Investment Bank
(b) Asian Development Bank

आাডিভর্स
(c) World Bank
(d) New Development Bank
16. In July 2023, $\qquad$ became the first European nation to join the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP).
(a) Denmark
(b) United Kingdom
(c) Germany
(d) Spain
17. According to the National Institution for Transforming India (NITI Aayog)'s Export Preparedness Index(EPI) 2022 for States and Union Territories(UTs) report released in July 2023, which state has topped the Index with an overall score of 80.89 ?
(a) Tamil Nadu
(b) Karnataka
(c) Maharashtra
(d) Gujarat
18. Name the state government that has recently signed an MoU with OneWeb to set up India's First Private 'Satellite Network Portal Site'.
(a) Andhra Pradesh
(b) Gujarat
(c) Kerala
(d) Odisha

ख्याप्িिय
19. Which bank has recently launched 'Project Palaash', an eight-month campaign to promote environmental sustainability?
(a) Bank of Baroda
(b) Bank of India
(c) Punjab National Bank (
(d) State Bank of India
20. Name the bank that has recently crossed USD 100 Billion Valuation and emerged as the World's 7th largest lender.
(a) Deutsche Bank
(b) HDFC Bank
(c) China Construction Bank
(d) Citigroup

## Section-III

## Module-I : Computer Knowledge Module

1. Which of the following keyboard shortcuts will you press in order to minimise all programs on a computer screen and display the desktop?
(a) Windows +M
(b) Windows +D
(c) Windows +C
(d) Windows + F
2. Which of the following keys will you press in Windows 10 to turn the volume up?
(a) F4
(b) F5
(c) F8
(d) F6
3. The system that converts an IP address into an easy to remember format is called:
(a) Domain numbering system

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(b) Packet-switching domain system
(c) Domains
(d) Domain name system
4. Linux is a type of $\qquad$ operating system
(a) Shareware
(b) Commercial
(c) Proprietary
(d) Open source
5. A topology for a Local Area Network in which all nodes are individually connected to a central connection point like a hub or switch is called:
(a) star topology
(b) tree topology
(c) bus topology
(d) ring topology
6. Which of the following file types represents a compressed version of one or more files?
(a) EXE
(b) PDF
(c) DOC
(d) ZIP
7. Which of the following is NOT an example of an optical disk?
(a) PROM
(b) DVD
(c) Blue Ray Disk
(d) CD ROM

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8. $\qquad$ monitors user activity on internet and transmits that information in the background to someone else.
(a) Malware
(b) Adware
(c) Spyware
(d) Spam
9. A device or program that enables a computer to transmit data over telephone or cable lines is called:
(a) Monitor
(b) mouse
(c) motherboard
(d) modem

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10. Which of the following is a part of the central processing unit of a computer?
(a) Scanner
(b) Memory registers
(c) Mouse
(d) Joystick
11. Which of the following does NOT impact a computer's general performance?
(a) Hard Disc Speed
(b) RAM Size
(c) Size of the Graphics Card
(d) CPU Speed
12. Which of the following is an open source operating system?
(a) Windows 10
(b) iOS
(c) Android
(d) Windows Vista
13. $\qquad$ transfers the ink through a set of small pins arranged in the form of matrix.
(a) Dot Matrix printer
(b) Laser printer
(c) None of these
(d) 3D printer
14. Which of the following types of computer is used in climate research and weather forecasting?
(a) Mini-computers
(b) Micro-computers
(c) Super computers
(d) Mainframe computers
15. Which one of the following is a computer virus?
(a) Creeper
(b) Spider
(c) Panda
(d) Penguin

## SSC CHSL Tier-II Exam. Practice Set

## Answers with Explanation

## Session-I

Section-I
Module-I : Mathematical Abilities

1. (b) $\frac{\mathrm{A}}{\mathrm{B}}=\frac{3 \times 3}{4 \times 3}=\frac{9}{12}$
$\frac{\mathrm{B}}{\mathrm{C}}=\frac{8}{10}=\frac{4 \times 3}{5 \times 3}=\frac{12}{15}$
$\frac{\mathrm{C}}{\mathrm{D}}=\frac{15}{17}$
$\therefore \mathrm{A}: \mathrm{B}: \mathrm{C}: \mathrm{D}=9: 12: 15: 17$
2. (c) I. Ratio $=(45+40+35):(35+50+65)$

$$
=120: 150=4: 5
$$

II. Bank 1 total distributed $=45+55=100$ Bank 2 total distributed $=40+60=100$
$\therefore$ Both equal
Hence, statement I \& II both are true.
3. (d) $2 \pi r=88$
$\therefore \mathrm{r}=88 \times \frac{1}{2} \times \frac{7}{22}=14 \mathrm{~cm}$
$\therefore$ Area of the circle is $=\pi 14^{2} \mathrm{~cm}^{2}$
$=\frac{22}{7} \times 14 \times 14=616 \mathrm{~cm}^{2}$
4. (d) Let, the sum is $P$

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$\frac{3 \times \mathrm{P} \times 10}{100}-\frac{2 \times \mathrm{P} \times 12}{100}=60$
$\frac{6 \mathrm{P}}{100}=60$
$\therefore \mathrm{P}=1000$
$\therefore$ The sum is Rs. 1000
5. (a) $100000+11=100011$ is divisible by 53 .
6. (b) $\mathrm{S} . \mathrm{P}=7 / \mathrm{Kg}$
C.P $=7 \times \frac{100}{80}=\frac{35}{4} / \mathrm{kg}$

If Profit $4 \%$, then S.P $=\frac{104}{100} \times \frac{35}{4}=9.1 / \mathrm{kg}$
7. (c) Let, his average score $x$ after the 12th innings. $\therefore$ total runs $=12 \mathrm{x}$
$\frac{12 x+97}{13}=x+5$
m位依
$12 \mathrm{x}+97=13 \mathrm{x}+65$
$\therefore \mathrm{x}=32$
$\therefore$ His average score after the 13th innings $=32+5=37$
8. (d) $\frac{10+12+15+x+y}{5} \times \frac{400}{100}=60$
$37+x+y=75$
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$\therefore \mathrm{x}+\mathrm{y}=38$
$\therefore$ Average $=38 / 2=19$
9. (a) CP of $\mathrm{A}=100$

Profit $=20 \%$
SP $=120$
Discount $=20 \%$
Marked price $=120 \times \frac{100}{80}=150$
CP of $\mathrm{B}=200$
Profit $=35 \%$
$\mathrm{SP}=270$
Discount $=25 \%$
Marked price $=270 \times \frac{100}{75}=360$
$\therefore$ Ratio of the marked price of Product A and Product $\mathrm{B}=150: 360=5: 12$
10. (b) $\mathrm{CP}=390$

Profit $=3.12 \%$

$\therefore \mathrm{SP}=\frac{103.12}{100} \times 39=\frac{4021.68}{100}=402$
11. (b) Let, the amount is $=x$
$\frac{\mathrm{P} \times 12 \times 10}{100}-\frac{\mathrm{P} \times 7 \times 10}{100}=2500$
$\frac{50 \mathrm{P}}{100}=2500$
$\mathrm{P}=5000$
$\therefore$ The amount is Rs. 5000
12. (b) Old CP $=100$, New $\mathrm{CP}=100-30=70$

Profit $=15 \%$
$\mathrm{SP}=115$
$\therefore \mathrm{SP}=\frac{71}{100} \times 115=81.65$
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$\therefore$ Profit $=81.65-70=$ Rs. 11.65
Now Profit Percentage
$=\frac{11.65}{70} \times 100=16.64 \simeq 16.8 \%$
13. (d) NPAS worth of Bank ${ }^{\prime} \mathrm{C}^{\prime}=300$ Lakh crores $\times$ $\frac{15}{100}=45$ Lakh crores
14. (d) $\operatorname{Cot}^{2} \theta+\operatorname{Cot}^{4} \theta=2$

If $\theta=45^{\circ}$
Then, $\operatorname{Cot}^{2} 45^{\circ}+\operatorname{Cot}^{4} 45^{\circ}=2$
$\therefore 2 \operatorname{Sin}^{4} \theta+\operatorname{Sin}^{2} \theta=2 \operatorname{Sin}^{4} 45^{\circ}+\operatorname{Sin}^{2} 45^{\circ}$

$$
=2 \times \frac{1}{4}+\frac{1}{2}=1
$$

15. (d)


Let, AB is the tower, which is h mt tall $\tan 60^{\circ}=\frac{\mathrm{AB}}{\mathrm{BC}}=\frac{\mathrm{h}}{\mathrm{x}}$
$\sqrt{3}=\frac{h}{x} \quad \therefore h=x \sqrt{3}$
$\tan 30^{\circ}=\frac{\mathrm{AB}}{\mathrm{BD}}=\frac{\mathrm{h}}{\mathrm{x}+30}$
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$\frac{1}{\sqrt{3}}=\frac{x \sqrt{3}}{x+30}$
$x+30=3 x$
$\therefore \mathrm{x}=15$
$\therefore$ Height of tower $=15 \sqrt{3} \mathrm{mt}$
16. (c)


$$
\angle \mathrm{PQR}=90^{\circ}, \angle \mathrm{QPR}=2 \mathrm{x} \& \angle \mathrm{QRP}=3 \mathrm{x}
$$

$$
\therefore 2 \mathrm{x}+3 \mathrm{x}+90^{\circ}=180^{\circ}
$$

$$
5 x=90^{\circ}
$$

$\therefore \mathrm{x}=18$
$\angle \mathrm{QPR}=2 \mathrm{x}=2 \times 18=36^{\circ}$
$\angle \mathrm{QRP}=3 \mathrm{x}=3 \times 18=54^{\circ}$
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Now, $\triangle \mathrm{MQR}$
$\angle \mathrm{MRQ}=54^{\circ}$
$\angle \mathrm{RMQ}=90^{\circ}$
$\therefore \angle \mathrm{MQR}=180-(90+54)=36^{\circ}$
17. (d) Speed of boat in still water $=x$ kmph (let)

Speed of current $=y \mathrm{kmph}$
Rate downstream $=(x+y) \mathrm{kmph}$
Rate upstream $=(x-y) \mathrm{kmph}$
Distance $=$ Speed $\times$ Time
$\therefore(\mathrm{x}-\mathrm{y}) \times 2 \mathrm{t}=(\mathrm{x}+\mathrm{y}) \times \mathrm{t}$
$\Rightarrow 2 \mathrm{x}-2 \mathrm{y}=\mathrm{x}+\mathrm{y}$
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$\Rightarrow 2 x-x=2 y+y \Rightarrow x=3 y$
$\Rightarrow \frac{\mathrm{x}}{\mathrm{y}}=\frac{3}{1}=3: 1$
18. (d) $\frac{144}{0.144}=\frac{14.4}{x}$
$\Rightarrow 144 \times \mathrm{x}=14.4 \times 0.144$
$\Rightarrow \mathrm{x}=\frac{14.4 \times 0.144}{144}$
$=\frac{144 \times 144}{144 \times 10000}=0.0144$
19. (b) $5^{5 x+5}=1$
$\Rightarrow 5^{5 x+5}=5^{\circ}$
$\Rightarrow 5 \mathrm{x}+5=0$
$\Rightarrow \mathrm{x}=-1$
20. (c) Group $\mathrm{A}=40 \%$
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Group B $=\frac{60 \times 75}{100}=45 \%$
Group C $=15 \%$
If the total number of students be $x$, then
$\frac{\mathrm{x} \times 15}{100}=12$
$\Rightarrow \mathrm{x}=\frac{12 \times 100}{15}=80$
21. (c) Let number be $x$.
$\therefore$ According to question,
$75 \%$ of $x+75=x$
$\frac{3 x}{4}+75=x \Rightarrow x-\frac{3 x}{4}=75$
$\mathrm{x}=75 \times 4=300$
22. (b) Population of the illiterate in the village

$$
\begin{aligned}
& =(100-30) \% \text { of } 6600 \\
& =\frac{6600 \times 70}{100}=4620
\end{aligned}
$$

23. (c) Original price of car $=$ Rs. $x$ (let)
C.P. of car for Amit

$$
=\frac{90 \times \mathrm{x}}{100}=\text { Rs. } \frac{9 \mathrm{x}}{10}
$$

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Actual C.P
$=$ Rs. $\left(\frac{9 \mathrm{x}}{10}+5000\right)$
According to the question,
$\left(\frac{9 x}{10}+5000\right) \times \frac{120}{100}=100000$
$\Rightarrow \frac{9 \mathrm{x}}{10}+5000$
$=\frac{100000 \times 100}{120} \approx 83300$
$\Rightarrow \frac{9 \mathrm{x}}{10} \approx 83300-5000 \approx 78300$
$\Rightarrow \mathrm{x} \approx \frac{78300 \times 10}{9}$
$\approx$ Rs. 87000
24. (b) Marked price of book $=$ Rs. $x$

Its C.P. = Rs. 100
According to the question
$\frac{\mathrm{x} \times 90}{100}=120$
$\Rightarrow \mathrm{x}=\frac{120 \times 100}{90}=$ Rs. $\frac{400}{3}$
If commission be $15 \%$, then
S.P. $=\frac{400}{3} \times \frac{85}{100}=\frac{340}{3}$
= Rs. 113.33
$\therefore$ Gain $\%=13 \frac{1}{3} \%$
25. (a) C.P. of first buyer
$=₹(840+10 \%$ of 840$)$
$=₹(840+84)=₹ 924$
Now, this item is sold to the second buyer at 5\% loss.
$\therefore$ Final selling price
$=₹\left(\frac{95}{100} \times 924\right)=₹ 877.80$
26. (a) Remaining distance
$=(3584-1440-1608) \mathrm{km}=536 \mathrm{~km}$.
This distance is covered at the rate of 536/8 = 67 kmph
Average speed of whole journey
$=3584 / 56=64 \mathrm{kmph}$
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$\therefore$ Required difference in speed
$=(67-64) \mathrm{kmph}$ i.e. $=3 \mathrm{kmph} /$ more
27. (a) $2^{2}+4^{2}+6^{2}+\ldots .+40^{2}=11480$
$\Rightarrow 1^{2} .2^{2}+2^{2} \cdot 2^{2}+3^{2} .2^{2}+\ldots+20^{2} .2^{2}=11480$
$\Rightarrow 2^{2}\left(1^{2}+2^{2}+3^{2}+\ldots .+20^{2}\right)$
$=11480$
$=1^{2}+2^{2}+3^{2}+\ldots+20^{2}$ खाब्仑िर्स
$=\frac{11480}{4}=2870$
28. (a) $\left(1-\frac{1}{3}\right)\left(1-\frac{1}{4}\right)\left(1-\frac{1}{5}\right) \ldots\left(1-\frac{1}{24}\right)\left(1-\frac{1}{25}\right)$
$=\frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \ldots \times \frac{23}{24} \times \frac{24}{25}=\frac{2}{25}$
29. (b) Let the age of younger boy be $x$ years.
$\therefore$ Age of older boy $=(x+5)$ years.
Then, total age of 30 boys
$=30 \times 15=450$ years.
Total age of 31 boys after two new comers join \& 1 left
$=450-20+\mathrm{x}+\mathrm{x}+5$
$=435+2 \mathrm{x}$
Clearly, $435+2 \mathrm{x}=31 \times 15$
$\Rightarrow 2 \mathrm{x}=465-435$
$\Rightarrow \mathrm{x}=\frac{30}{2}=15$ years
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30. (c) Net selling price of scooter.

$$
\begin{aligned}
& =\text { Rs. }\left(18000 \times \frac{90}{100} \times \frac{95}{100} \times \frac{98}{100}\right) \\
& =\text { Rs. } 15082.2
\end{aligned}
$$

## Module-II : Reasoning and General Intelligence

1. (c) $16 \quad 18 \quad 15 \quad 13 ~ 9 ~ 19 ~ 5 ~$

| P | R | O | M | I | S | E |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 7 | $\downarrow 6$ | $\downarrow 5$ | $\downarrow 4$ | $\downarrow 3$ | $\downarrow 2$ | $\downarrow 1$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

W $\quad \mathrm{X} \quad \mathrm{T} \quad \mathrm{Q} \quad \mathrm{L} \quad \mathrm{U} \quad \mathrm{F}$

| 23 | 24 | 20 | 17 | 12 | 21 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 13 | 5 | 12 | 20 | 9 | 14 | 7 |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- |
| M | E | L | T | I | N | G |
| $\downarrow 7$ | $\downarrow 6$ | $\downarrow 5$ | $\downarrow 4$ | $\downarrow 3$ | $\downarrow 2$ | $\downarrow 1$ |
| T | K | Q | X | L | P | H |
| 20 | 11 | 17 | 24 | 12 | 16 | 8 |

2. (b)
3. (d)


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$\therefore \mathrm{A}$ is 9 km far from B .
4. (c) a b $\underline{b} \underline{\mathrm{c}} \mathrm{d} \mathrm{a} \underline{\mathrm{b}} \mathrm{b} \mathrm{c} \mathrm{d} \mathrm{a} \underline{\mathrm{b}} \underline{\mathrm{b}} \mathrm{c} \mathrm{d} \underline{\mathrm{a}} \underline{\mathrm{b}} \mathrm{b} \mathrm{c} \mathrm{d}$
5. (c)


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Hence, only conclusion III follows.
6. (b)
7. (d) $105-29 \times 96 \div 16+84$

$$
=105-29 \times 6+84
$$

$=105-174+84=15$
8. (b)
9. (c)

10. (d)
11. (c) $134^{\checkmark}$ - good and tasteful $\begin{array}{lll}\boxed{\checkmark} \\ 4 & \times \\ 7 \\ 8\end{array}$ - looks good picture
${ }_{7}^{\times} 29$ - picture is blurry $\therefore$ looks $=8$
12. (a)
13. (b)
14. (c) L K J $\underline{H} G \underline{L} K \underline{\mathrm{~J}} \mathrm{H} G \underline{\mathrm{~L}} \mathrm{~K} \mathrm{~J} H \underline{\mathrm{G}} \mathrm{L} \underline{\mathrm{K}} \underline{\mathrm{J}} \mathrm{H}$ G
15. (d) From dice $1 \& 2$ we get $5 \& 1$ in opposite site \& $2 \& 3$ is another 5 opposite side. So, opposite side of the 6 is 4 .
16. (a) $\mathrm{K}^{+}$

17. (c)
18. (c) $\mathrm{Soni}^{-}+\mathrm{Ravi}^{+}$

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$$
\begin{aligned}
& \mathrm{Avi}^{-} \rightarrow^{-} \rightarrow^{+}+ \text {Mani }^{-} \\
& \downarrow \\
& \text { Renu }^{-}
\end{aligned}
$$

Hence, Soni is the Parental Grandmother of Renu.
19. (c)
$1 \xrightarrow{+1} 2 \xrightarrow{+1} 3 \xrightarrow{+1} 4 \xrightarrow{+1}$
$2 \xrightarrow{+3} 5 \xrightarrow{+2} 7 \xrightarrow{+2} 9 \xrightarrow{+2} 11$


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20. (d)

21. (b)

$4 \longdiv { 5 3 6 } 4 6 \boxed { 7 3 6 } 5 4 2 3 4$
$\begin{array}{llllllllll}536 & 4 & 2 & 57 & 836 & 7 & 2 & 1 & 2\end{array}$
$3 \lcm{536} 56 \boxed{736} 7364125$
22. (d)

| 4 | 2 | $>$ |
| :--- | :--- | :--- | :--- |

4536646736544234
53642358367321
23536567367364
125436
23. (b) $3 / 5$ or $5 / 3$

4536467365423
4536423578367
32123536567367
364125436
24. (c)
$\square \quad 4 \quad 6$
453 646736542
[34536423578367
32123536567367
364125436
25. (a)

| 6 | 7 | 3 |
| :--- | :--- | :--- |

45364673654234
53642357836732
1235365673673
64125436
26. (d) R A P D C N

27. (a) 9115247


L Y C P J N
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28. (b) D E L H I
$\begin{array}{lllll}\downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 7 & 3 & 5 & 4 & 1\end{array}$

$\begin{array}{llllllll}8 & 2 & 5 & 8 & 6 & 6\end{array}$
Therefore,
C A L I C U T
$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
$\begin{array}{lllllll}8 & 2 & 5 & 1 & 8 & 9 & 6\end{array}$
29. (c) First Figure
$(20-9)^{2}=121$
$\Rightarrow(11)^{2}=121$
Second Figure
$(24-11)^{2}=169$
$\Rightarrow(13)^{2}=169$
Third Figure
$(32-17)^{2}$
$\Rightarrow(15)^{2}=225$
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30. (a) $\mathrm{T} \Rightarrow 04,11,23,30,42$
$\mathrm{A} \Rightarrow 02,14,21,33,40,58,65,77,89,96$
$K \Rightarrow 59,66,78,85,97$
$\mathrm{E} \Rightarrow 57,69,76,88,95$

| Option | T | A | K | E |
| :---: | :---: | :---: | :---: | :---: |
| (a) | 23 | 21 | 85 | 95 |
| (b) | 30 | 33 | $8 \mathrm{~F}^{\prime}$ | 88 |
| (c) | 04 | 33 | 66 | 99 |
| (d) | 11 | 21 | 85 | 86 |

## Section-II

## Module-I : English Language \& Comprehension

1. (d) Dizzy means feeling as if everything is spinning around; unable to balance, confused.
For example, After another glass of whisky I began to feel dizzy. In the passage, the reel of thread feels dizzy as it is rotating at a very fast rate. We know that if someone rotates speedily, he feels dizziness.
2. (d) In the passage, the balance wheel says, "She is stitching a school dress for her daughter who will be admitted in school tomorrow." From this statement it becomes clear that the lady is stitching a school dress for her daughter.
3. (c) "One day this lay's grandfather came to the shop. He liked the machine and bought it". The lady is the child's mother. So we can say that the machine was bought by the child's grandfather.

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4. (b) "We saw the old gentleman die. His children then started quarrelling. Slowly they become poor. The servants were dismissed. Then one
by one, the children went and the house was closed. From this part of the passage we find that all the things mentioned in the given options
were happened except (b). आुण्ভির্ন
5. (d)
6. (a) careful will replace carefully because-
careful is an Adj. and carefully is an Adv.
Hence, After a careful investigation is the right usage.
7. (b) cooperation (Noun) : the fact of doing something together or of working towards a shared aim
affinity (Noun) : a strong feeling that you understand somebody or something and like them or it.
collaboration (Noun) : the act of working with another person or group of people to create or produce something

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Here, cooperation is the right usage.
8. (b) Men, women and children throng the shops before festivals making various purchases. (Active)
The sentence is in Simple Present Tense. (Passive)
Before festivals the shops are thronged with men, women and children ...
$\downarrow \quad \downarrow \quad \downarrow$
Subject Verb Object $\rightarrow$ Active
Men, women and children throng the shops...
Subject Verb Object
9. (c) Everybody said, "How well she sings." $\rightarrow$ (D.S.)
Rep. V. Verb
(S. Pr.)

Everybody exclaimed that she sang very well. $\rightarrow$ (I.S.)

$$
\begin{array}{ccc}
\downarrow & \downarrow & \downarrow \\
\text { Rep. V. } & \text { Conj. } & \text { Verb. }
\end{array}
$$

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(S. Past)
10. (b) conscientious (Adj.) : taking care to do things carefully and correctly
Here, conscientious is the right usage.
11. (c) quarrelsome (Adjective) : liking to argue with other people
cantankerous (Adjective) : badtempered and always complaining
cancerous (Adjective) : related to cancer (growth of cells)
ferocious (Adjective) : very aggressive or violent; strange
fissiparous (Adjective) : reproducing by fission (the division of cells into new cells)
12. (d) irritable (Adjective) : becoming very angry; badtempered
irascible (Adjective) : becoming angry very easily; irritable

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temperamental (Adjective) : having a tendency to become angry, excited or upset easily
envious(Adjective) : wanting to be in the same position as somebody else
angry (Adjective) : having strong feeling about something that you dislike
13. (c) generality (Noun) : a statement that discusses general principles
idiosyncrasy (Noun) : an unusual feature ; a person's way of behaving, thinking, etc., especially when it is unusual; eccentricity insanity (Noun) : the state of being insane ; madness ; lunacy
sanity (Noun) : the state of having a normal healthy mind
singularity (Noun) : the quality of something that makes it unusual or strange
14. (c) ghastly (Adv.) : horrible, terrible; very frightening and unpleasant, because it involves pain, death, etc.

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ominously (Adv.) : in a manner that suggests that something bad is going to happen in the future
sprightly (Adv.) : full of life and energy ; lively (for older people)
terribly (Adv.) : very much ; very badly
15. (c) to be always at his beck and call : always ready to obey somebody's orders

- There were a dozen of maids and waiters at our beck and call.
The best option is at his disposal.

16. (a) are allowed
17. (c) The Prime Minister chair a high-level meeting
18. (a) fluctuated
19. (d) accompanied
20. (b) Polite

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21. (b) devised
22. (d) Please refrain to
23. (c) The new employee asked the manager when he had to report for work.
24. (a) BDAC
25. (d) DACB
26. (a) To take advantage of a difficult situation.
27. (d) CBAD
28. (c) Canfidents
29. (c) what I told you
30. (b) Mother said that all the guests would arrive that night
31. (d) Apart
32. (d) is
33. (a) as
34. (a) hundreds
35. (a) several
36. (c) to buy
37. (d) He
38. (d) through
39. (c) friends
40. (a) feeling

## Module-II : General Awareness

1. (b) The Constitution originally provided for the right to property under Articles 19 and 31. Article 19 guaranteed to all citizens the right to acquire, hold and dispose of property. Article 31 provided that "no person shall be deprived of his property save by authority of law." It also provided that compensation would be paid to a person whose property has been taken for public purposes. The Forty-Forth Amendment of 1978 deleted the right to property from the list of fundamental rights.

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2. (c) Muhammad Bin Tughlaq introduced beautiful and various types of coins during his reign and fixed up their relative values. The remarkable feature of the coinage system was the introduction of token currency and issue of copper and brass coins. The Sultan made these token coins legal tenders and kept their value at par with gold and silver coins. He launched the coins without taking any precaution against forgery.
3. (a) Earthquakes are caused by faulting, a sudden lateral or vertical movement of rock along a rupture (break) surface. Earthquakes often occur in volcanic regions and are caused there, both by tectonic faults and the movement of magma in volcanoes. Such earthquakes can serve as an early warning of volcanic eruptions, as during the Mount St. Helens eruption of 1980.
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4. (b) Gresham's law is an economic principle that states:

फাডিভির্ম
"When a government compulsorily overvalues one type of money and undervalues another, the undervalued money will leave the country or disappear from circulation into hoards, while the overvalued money will flood into circulation." It is commonly stated as: "Bad money drives out good." More exactly, if coins containing metal of different value have the same value as legal tender, the coins composed of the cheaper metal will be used for payment, while those made of more expensive metal will be hoarded or exported and thus tend to disappear from circulation.
5. (b) The primary reason why the colour red is used for danger signals is that red light is scattered the least by air molecules. The effect of scattering is inversely related to the fourth power of the wavelength of a colour. Therefore blue which has the least wavelength of all the visible radiations is scattered the most and red which has the highest wavelength of all the colours we can see is scattered the least. So red light is able to travel the longest distance through fog, rain, and the alike. Also, red is a colour we inherently perceive as one that is associated with danger.

छुाब्जि স্ল
6. (d) Scintillation or twinkling is generic terms for variations in apparent brightness or position of a distant luminous object viewed through a medium. If the object lies outside the Earth's atmosphere, as in the case of stars and planets, the phenomenon is termed astronomical scintillation; within the atmosphere, the phenomenon is termed terrestrial scintillation. As one of the three principal factors governing astronomical seeing, atmospheric scintillation is defined as variations in illuminance only. Scintillation does not cause images of planets to flicker. Most scintillation effects are caused by anomalous refraction caused by small-scale fluctuations in air density usually related to temperature gradients.

फुप्ञिएन
7. (c) A hydrogen atom is very light. Most of the air on earth is made up of nitrogen, oxygen, and carbon dioxide. All of these elements are heavier than hydrogen, so the balloon is pushed upwards. Hydrogen weighs 0.08988 grams per liter. Nitrogen, which makes up $80 \%$ of the air we breathe, weighs 1.2506 grams per liter.

Hydrogen filled balloons follow the same principle as we do when we float in the water; the law of buoyancy. If the water we displace weighs more than we do, we will float.
8. (c) Smut of wheat is caused by Ustilago tritici.
9. (a) Lacrimal gland, located under the upper eyelid at the outer cornea of the eye, is responsible for tearing during emotional stimulation or following corneal irritation by a foreign body or chemical substance. Tear gas, also called lacrimator, refers to any of a group of substances that irritate the mucous membranes of the eyes, causing a stinging sensation and tears. It produces severe lacrimation by irritating the conjunctivae.
10. (b) Atomic number of a chemical element is the number of protons found in the nucleus of an atom of that element, and therefore identical to the charge number of the nucleus. It determines the place of an element in the periodic table. In an uncharged atom, the atomic number is also equal to the number of electrons. फ़ाரिিर्स
11. (c) Bengaluru, the capital of Karnataka became the first Indian city to be part of the World Cities Culture Forum (WCCF), a global network of cities that share research and intelligence to explore the role of culture in future prosperity.

- Bengaluru became the 41 st city to join the forum and the network currently includes 40 cities across six continents. The forum includes cities like New York, London, Paris, Tokyo, and Dubai.
i. The participative project called Unboxing Bangalore is established to create a new narrative around Bengaluru through multimedia properties and they have been representing the city and leading the discussions.
ii. WCCF will work closely with Unboxing BLR Foundation, a not-for-profit initiative co-founded in April 2022 by Prashanth Prakash, Founding Partner of Accel India and Philanthropist, and journalist Malini Goyal.

फ्रापिएय
12. (a) According to the State Bank of India's (SBI) economic research report Ecowrap dated on 27th July 2023, India is set to become the world 3rd Largest Economy in 2027(Financial Year 2028) based on actual Gross domestic product (GDP) data as on March 2023.

- India currently ranks 5th in the world's largest economy, accounting for $3.4 \%$ of global GDP.

The United States of America (USA) ranks 1st in the Top 5 followed by China. छुणाब्जिएन - As per the report, India will surpass both Japan and Germany in 2027 if it develops at the present current rate of growth.

- The report also states that India's GDP is expected to grow by more than $8 \%$ in the first Quarter of Financial Year 2024 (8.1-8.2\%).
- Maharashtra and Uttar Pradesh set to break the $\$ 500$ billion mark in 2027 (or FY28).

13. (a) The 4th Environment and Climate Sustainability Working Group (ECSWG) and Environment and Climate Ministers' meeting was held between 26th to 28th July 2023, in Chennai, Tamil Nadu (TN).

धुाज्जिर्य

- The 3-day meeting brought together around 300 delegates from G20 (Group of Twenty) member countries, invitee countries, and several International Organisations, with a focus on finalizing the Ministerial Outcome and the Presidency Documents under the two broad tracks of Environment and Climate.
- The Resource Efficiency Circular Economy Industry Coalition (RECEIC) was launched by Bhupender Yadav, Union Minister for Environment, Forest and Climate Change (MoEFCC) in the 4th ECSWG meeting.
- The G20 members adopted the 'Chennai HighLevel Principles for a Sustainable and Resilient Blue/Ocean-based Economy', which can be implemented on a voluntary basis, "based on national circumstances and priorities".
- 39 multinational corporations (MNCs) from various sectors such as steel, FMCG, electronics came together to pledge to adopt resource efficiency and circular economy principles and to address environmental challenges rising from waste, including plastics, microplastics, e-waste, and chemical waste.

धुाप्जिर्य
14. (c) Adani Group commenced the full load power supply to Bangladesh from the Adani group's Ultra Super-Critical Thermal Power Plant (USCTPP) in Godda, Jharkhand. This is India's first commissioned transnational power project where $100 \%$ of the generated power is supplied to another nation.
i. Adani Group Chairman Gautam Adani called on Bangladesh Prime Minister (PM) Sheikh Hasina in Dhaka, Bangladesh on full load commencement and handover of the 1600 MW USCTPP.
ii. The Godda USCTPP, marks the entry of Adani Group's into transnational power projects. Adani Power Jharkhand Ltd. (APJL), a whollyowned subsidiary of Adani Power Ltd, will supply $100 \%$ of the generated electricity from the plant to another nation. ध्राज्जिए
15. (a) The European Investment Bank (EIB) is set to support India's National Green Hydrogen Mission with a substantial loan of up to EURO 1 billion to boost green hydrogen and renewable energy projects in India.
i. The EIB aims to boost India's renewable energy ambitions by supporting renewable energy generation, energy storage technologies, power transmission and distribution infrastructure.
ii. EIB Vice-President Kris Peeters is set to confirm EIB's interest to support NGHM during his visit to India to attend G20(Group of Twenty) Infrastructure Investors Dialogue (IID), which takes place during the 3rd meeting of finance ministers and central bank governors in Gandhinagar, Gujarat, India.

धुण्डिम
16. (b) On 16th July 2023, the United Kingdom (UK) signed a deal to join the Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP), a major Asia-Pacific trading bloc in New Zealand and became the first new member and first European nation to join since it was formed in 2018.
i. Kemi Badenoch, the Business and Trade Secretary of the UK signed the treaty confirming UK's accession protocol for the CPTPP in New Zealand.
ii. With the inclusion of the UK, the collective Gross domestic product (GDP) of the bloc, comprising Australia, Brunei, Canada, Chile, Japan, Malaysia, Mexico, New Zealand, Peru, Singapore and Vietnam, will amount to 12 trillion pounds (USD 15.7 trillion), or $15 \%$ of the global GDP. धुणाप्जियन
17. (a) According to the Export Preparedness Index (EPI) 2022 for States and Union Territories (UTs), the 3rd edition of the National Institution for Transforming India (NITI Aayog) report, Tamil Nadu has topped the Index with an overall score of 80.89 .

- Maharashtra with 78.20 at 2 nd place, Karnataka with 76.36 at 3rd place and Gujarat with 73.22 at 4th place are the top performers in EPI 2022 in all categories of states. The EPI

2022 was prepared by NITI Aayog in association with the Institute for Competitiveness (IFC).

- Haryana (63.65), Telangana (61.36) and Uttar Pradesh (61.23) are the top performers in landlocked states category. फुण্ভির্র - Uttarakhand (59.13) has topped among Himalayan States followed by Himachal Pradesh, Manipur, Tripura, Sikkim, Nagaland, Meghalaya, Arunachal Pradesh and Mizoram.

18. (b) On 19th July 2023, the Gujarat government signed a Memorandum of Understanding (MoU) with OneWeb, a London-based Company, and Gujarat Government's Department of Science and Technology, for setting up India's First Private 'Satellite Network Portal Site' in Gujarat. i. This project under Digital India, aims to provide affordable internet access to villages, district panchayats, local administrative bodies, government departments, and other entities throughout India.

फ्याप्जिएय
ii. OneWeb will establish one of the two private 'satellite network portal sites' in two villages in Jotana taluka of Mehsana district of Gujarat. iii. The satellite network portal in Katosan and Tejpura, Jotana taluka, Gujarat, is scheduled to launch in 2023 with an estimated cost of over Rs. 100 crores for its Phase-1.
19. (c) Punjab National Bank (PNB), India's leading Public Sector Bank, launched an environmental initiative 'Project PNB Palaash', an eight-month campaign to promote sustainability aimed at reducing costs and enhancing operational efficiencies through measures such as energy and resource conservation, paper reduction, waste management and optimised digital processes.
i. The goal of this initiative is to actively contribute to conservation activities, encourage the adoption of sustainable practices, and promote active employee engagement.
ii. The campaign is in line with the Reserve Bank of India's (RBI) vision of sustainable finance and the 6th iteration of Enhanced Access and Service Excellence (EASE 6.0), an initiative by the Department of Financial Services (DFS), Government of India. फाष्डिस
20. (b) On 14th July 2023, following its reverse merger with its parent company, Housing Development Finance Corporation (HDFC) limited, HDFC Bank crossed the USD 100 billion market capitalization(m-cap) and traded at a market value of around USD 152 billion.
i. With this, HDFC Bank has emerged as the World's 7th largest lender, moving ahead of Bank of China (and Morgan Stanley, and Goldman Sachs.
ii. HDFC bank has entered the list of the world's top 10 banks by market capitalization. JP Morgan Chase (USD 438 billion) tops the list followed by Bank of America at 2nd (USD 232 billion) and ICBC at 3rd (USD 224 billion).

## Section-III

## Module-I : Computer Knowledge Module

1. (b) Windows +D
2. (c) F8
3. (d) Domain name system
4. (d) Open source
5. (a) star topology धुण্ভির্স
6. (d) ZIP
7. (a) PROM
8. (c) Spyware
9. (d) modem
10. (b) Memory registers
11. (c) Size of the Graphics Card
12. (c) Android
13. (a) Dot Matrix printer
14. (c) Super computers
15. (a) Creeper
