

# SSC REASONING

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Chapterwise – Topicwise  
**SOLVED PAPERS**

**7100+**  
**TCS MCQs**

Coverage of all Questions asked  
in SSC Exams till December 2022

CGL (Tier I & II),  
CPO (SI/ASI),  
CHSL (10+2), MTS  
Stenographer Grade  
'C' & 'D', FCI,  
Constable (GD) etc.

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## CHAPTERWISE TREND ANALYSIS

# SSC EXAMS

Held in 2022 - 2020

S. No.	Topic	SSC CGL Tier I 2022 (Dec. 22)	SSC CPO 2022 (Nov. 22)	SSC Steno 2022 (Nov. 22)	SSC MTS 2022 (July 22)	SSC(10+2) Tier I 2021 (May 22)	SSC CGL Tier I 2022 (Apr. 22)
1.	Analogy or Similarity	5	6	9	5	2	2
2.	Classification	2	2	2	-	1	1
3.	Logical Order of Sequence and Word formation	1	2	2	-	2	1
4.	Coding-Decoding	2	4	4	4	2	3
5.	Alphabet and Number Series	3	8	7	3	6	4
6.	Direction Sense Test	-	2	2	-	-	-
7.	Blood Relation	2	2	2	-	-	1
8.	Ranking, Sitting and Puzzles	-	2	3	3	1	1
9.	Clock and Calander	-	-	1	-	-	-
10.	Symbolic Logical Reasoning	3	7	6	2	-	2
11.	Arithmetical Problems	-	-	-	-	-	1
12.	Inserting the Missing Characters	-	-	-	-	4	1
13.	Dice and Cubes	1	1	-	-	-	2
14.	Venn-Diagram	-	2	2	-	1	1
15.	Syllogism	2	2	3	2	-	1
16.	Matrix	-	-	-	-	-	-
17.	Analogy	-	-	-	-	-	-
18.	Classification	-	-	-	-	-	-
19.	Figures Series	2	3	2	2	-	1
20.	Completion of Figures	-	-	3	1	-	-
21.	Embedded Figures	-	3	-	1	1	1
22.	Counting of Figures	-	-	1	-	-	-
23.	Mirror and Water Image	2	2	-	2	4	1
24.	Paper folding and Cutting	-	2	-	-	1	1
25.	Analytical Reasoning	-	-	1	-	-	-
<b>Total</b>		<b>25</b>	<b>50</b>	<b>50</b>	<b>25</b>	<b>25</b>	<b>25</b>

S. No.	Topic	SSC Steno 2022 (Nov. 22)	SSC MTS 2021 (Nov. 22)	SSC CGL 2021 (June 21)	SSC(10+2) Tier-I 2021 (May 22)	SSC Steno 2020 (Dec. 20)	SSC CPO 2021 (Nov. 20)
1.	Analogy or Similarity	4	5	8	6	4	3
2.	Classification	2	-	3	3	2	2
3.	Logical Order of Sequence and Word formation	3	2	1	1	3	2
4.	Coding-Decoding	3	4	2	2	3	5
5.	Alphabet and Number Series	8	3	3	2	7	7
6.	Direction Sense Test	3	-	-	-	3	2
7.	Blood Relation	3	-	1	1	3	2
8.	Ranking, Sitting and Puzzles	4	2	-	-	4	2
9.	Clock and Calander	-	-	-	-	1	-
10.	Symbolic Logical Reasoning	3	2	1	1	3	3
11.	Arithmetical Problems	3	-	1	1	3	3
12.	Inserting the Missing Characters	4	-	2	-	4	4
13.	Dice and Cubes	-	-	1	1	-	2
14.	Venn-Diagram	2	1	1	1	2	2
15.	Syllogism	3	2	1	1	3	2
16.	Matrix	-	-	-	-	-	-
17.	Analogy	-	-	-	-	-	-
18.	Classification	-	-	-	-	-	-
19.	Figures Series	2	1	1	1	2	3
20.	Completion of Figures	-	1	-	-	-	-
21.	Embedded Figures	1	1	1	1	1	2
22.	Counting of Figures	-	-	1	1	-	-
23.	Mirror and Water Image	1	-	1	1	1	2
24.	Paper folding and Cutting	1	1	1	1	1	2
25.	Analytical Reasoning	-	-	-	-	-	-
<b>Total</b>		<b>50</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>50</b>	<b>50</b>



# Analogy or Similarity

Analogy means similarity or bearing a resemblance. In questions based on analogy, you are given a pair of words or letters having certain relationship. From the alternatives provided, you have to select the choice that best matches the relationship existing between the first two words or letters.

The given pair of words or letters is set off by a colon or ratio sign ( : ) signifying that word X is related to word Y. The double colon ( :: ) that separates the given pair stands for "In the same way".

There are many ways of establishing a relationship. As far as relationship among letters are concerned, facts stated in coding-decoding chapter is applied by at large but word-relationship can be established in following ways, cause and effect, part to whole, synonym, antonym, degree of intensity, type and characteristic, producer and product, worker and tool, class and species etc.

*In dealing with analogy questions, the following rules should be observed*

- (i) Analyse the relationship between the question pair *i.e.*, before the double colon (::).
- (ii) Look for the pair of words among the answer choices with a similar relationship.
- (iii) If more than one answer choice seems to fit, re-examine the relation in the question pair.
- (iv) Eliminate answers that do not appear to be the related words.
- (v) Parts of speech must be the same in the related words.

Different types of questions asked in the examination are as follows.

## TYPE-1 Word Analogy

In this type of questions the candidate is required to identify the relationship between the given pair of words and then find out the similar analogous pair according to the relationship in the given pair. Some of the most common types of analogous relationships are as follows.

## Examples

### Cause and Effect

In this category an effect is observed due to some cause.

1. 'Goitre' is related to 'Iodine' as 'Anaemia' is related to
 

(a) Vitamin	(b) Blood
(c) Iron	(d) Weakness
- ⑤ (c) Here, we have cause and effect relationship. 'Goitre' is caused by the deficiency of 'Iodine'. So, if 'Goitre' is related to 'Iodine', then 'Anaemia' will be related to 'Iron' as 'Anaemia' is caused by the deficiency of 'Iron'. Hence, right answer is option (c).

### Subset of a Set

On this category a subset is considered to be a small quantity of a bigger set.

2. 'Page' is related to 'Book' as 'Leaf' is related to
 

(a) Root	(b) Green
(c) Tree	(d) Forest
- ⑤ (c) 'Page' is a part of 'Book' and in the same way, we see that 'Leaf' is a part of 'Tree'. Hence, correct answer is option (c).

### Quantity and Unit

In this category standard units of measurements *i.e.*, length, weight, volume, etc, are related.

3. 'Current' is related to 'Ampere' in the same way as 'Weight' is related to
 

(a) Scale	(b) Pound
(c) Commodity	(d) Measurement
- ⑤ (b) 'Current' is measured in terms of 'Ampere' and 'Weight' is measured in terms of 'Pound'. Hence, correct answer is option (b).

### Instrument and Measurement

In this category standard instrument related to certain quantity are related.

4. 'Seismograph' is related to 'Earthquakes' in the same way as 'Thermometer' is related to

(a) Fever (b) Doctor  
(c) Temperature (d) Mercury

- ⑤ (c) Relationship given in question is the relationship between instrument and the quantity measured by it. 'Seismograph' measures 'Earthquakes' and 'Thermometer' measures 'Temperature'. Hence, correct answer is option (c).

### Worker and Tools

In this category standard tools used by specified persons to complete their job are related.

5. 'Doctor' is related to 'Stethoscope' in the same way as 'Painter' is related to

(a) Painting (b) Brush (c) Exhibition (d) Art

- ⑤ (b) 'Stethoscope' is used by a 'Doctor' as a tool to perform his work. Similarly, a 'Painter' uses a 'Brush' as a tool to perform his work. Hence, correct answer is option (b).

### Sex Relationship

In this category male and female counter part is related to each other.

6. 'Bull' is related to 'Cow' in the same way as 'Horse' is related to

(a) Animal (b) Mare (c) Stable (d) Meat

- ⑤ (b) This is based on male-female relationship. So, 'Horse' is related to 'Mare'. Hence, correct answer is option (b).

### Word and Synonym

In this category words having similar meaning are related or they are called synonyms.

7. 'Dearth' is related to 'Scarcity' in the same way as 'Substitute' is related to

(a) Replace (b) Rumour (c) Destroy (d) Assume

- ⑤ (a) 'Scarcity' is synonym of 'Dearth'. In the same way 'Replace' is a word nearest in meaning to the word 'Substitute'. Therefore, correct answer is option (a).

### Word and Antonym

In this category words having opposite meaning are related or they are called antonyms.

8. 'Hate' is related to 'Love' in the same way as 'Create' is related to

(a) Make (b) Renovate (c) Destroy (d) Build

- ⑤ (c) 'Love' is just opposite to 'Hate'. So, the word opposite in meaning to 'Create' is 'Destroy'. Therefore, correct answer is option (c).

### Worker and Working Place

In this category, a person work and his work place are related.

9. 'Sailor' is related to 'Ship' in the same way as 'Lawyer' is related to

(a) Legal (b) Law (c) Court (d) Ruling

- ⑤ (c) The place to work of 'Sailor' is 'Ship'. Similarly, the place where 'Lawyer' works is 'Court'. So, correct answer is option (c).

### Study and Terminology

In this category study of something and its related standard term of that study are related.

10. 'Numismatic' is related to 'Coin' in the same way as 'Paleontology' is related to

(a) Earth (b) Soil (c) Fossils (d) Stones

- ⑤ (c) Study of 'Coin' is known as 'Numismatic'. 'Paleontology' is the science dealing with study of history of mankind with the help of 'Fossils'. Hence, correct answer is option (c).

### Product and Raw Material

In this category raw material and product formed with that raw material are related.

11. 'Shoes' is related to 'Leather' in the same way as 'Rubber' is related to

(a) Plastic (b) Polythene  
(c) Latex (d) Chappal

- ⑤ (c) 'Leather' is a raw material used to make 'Shoes'. Similarly, 'Rubber' is made using 'Latex' which is a raw material. Therefore, correct answer is option (c).

### Worker and Product

In this category, a person working on an object and the finished product obtained are related.

12. 'Carpenter' is related to 'Furniture' in the same way as 'Blacksmith' is related to

(a) Gold (b) Jewellery (c) Shoes (d) Metal

- ⑤ (d) 'Carpenter' makes 'Furniture'. Similarly, 'Blacksmith' makes 'Metal'. So, correct answer is option (d).

### Association Relationship

In this category, the term is related or associated to one another.

13. 'Melt' is related to 'Liquid' in the same way as 'Freeze' is related to

(a) Ice (b) Crystal (c) Water (d) Cubes

- ⑤ (a) The term 'Melt' is associated with 'Liquid' because after melting the ice, we obtain liquid. Similarly, the state of 'Water' after freezing, is 'Ice'. Hence, correct answer is option (a).

### TYPE-2 Alphabet Analogy

In this type of analogy, two groups of letters are related to each other in the same way as given, you are required to find out this relationship and then choose a letter group which is related in the same way from the four options.

### Examples

14. MN: OP :: ?

(a) AD : HF (b) AB : PQ  
(c) QR : ST (d) RS : TV

- ⊗ (c) The letters in both the groups in a pair are consecutive letters in the order.

$$M \xrightarrow{+1} N \xrightarrow{+1} O \xrightarrow{+1} P$$

Similarly,  $Q \xrightarrow{+1} R \xrightarrow{+1} S \xrightarrow{+1} T$

Hence, option (c) is correct.

### 15. ACEF : GIKL :: MOQR : ?

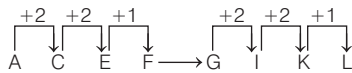
(a) SUWY

(b) TVXZ

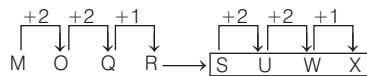
(c) TUXY

(d) SUWX

- ⊗ (d) As,



Similarly,



### TYPE-3 Number Analogy

In this type of analogy, questions have two numbers/ pairs bearing a relationship. There is also third number/pair which have the same relationship from the alternative. You are required to find that alternative.

#### Examples

#### 16. 2 : 8 :: 3 : ?

(a) 20

(b) 21

(c) 24

(d) 27

- ⊗ (d) Second number is the cube of first number.

$$\text{i.e., } 2^3 = 8 \text{ and } 3^3 = 27$$

Hence, option (d) is correct.

### 17. 5 : 35 :: ?

(a) 7 : 77

(b) 9 : 45

(c) 11 : 45

(d) 3 : 28

- ⊗ (a) The first number is multiplied by the next prime number to obtain the second number.

$$\text{i.e., } 5 \times 7 = 35$$

$$\text{and } 7 \times 11 = 77$$

Hence, option (a) is correct.

### TYPE-4 Number-Letter Analogy

In this type of analogy, questions have relationship between number and letter. There is also third number/letter/mix which have the same relationship from the alternative. You are required to find that alternative.

#### Example

#### 18. GO : 7 15 :: SEE : ?

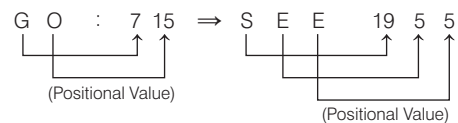
(a) 1955

(b) 1855

(c) 1277

(d) 877

- ⊗ (a) The logic followed here is,



## Questions Asked in SSC Exams

### TYPE-1 Word Analogy

**Directions** (Q. Nos. 1-10) *Select the option that is related to the third word in the same way as the second word is related to the first word. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word).* [SSC CGL (Tier-1) 2022]

#### 1. Movie : Director :: Orchestra : ?

- (a) Conductor (b) Audience  
(c) Choreographer (d) Dancer

- ⊗ (a) As, Movie is directed by the Director. Similarly, Orchestra is directed by Conductor.

#### 2. Cattle : Herd [SSC CGL (Tier-1) 2022]

- (a) Soldiers : Colony (b) Sailors : Crew  
(c) Pupils : Team (d) Player : Class

- ⊗ (b) As, a group of cattle is called herd. Similarly, a group of sailors is called crew.

#### 3. Solids : Freeze :: Gases : ?

[SSC CGL (Tier-1) 2022]

- (a) Melts (b) Smells  
(c) Freezes (d) Evaporates

- ⊗ (d) As, after freeze is found solid. Similarly, after evaporates is found gases.

#### 4. Rice : Carbohydrates

[SSC CGL (Tier-1) 2022]

- (a) Eggplant : Vegetable  
(b) Flesh : Chicken  
(c) Cottage cheese : Protein  
(d) Orange : Fruit

- ⊗ (c) As, carbohydrates are found in rice. Similarly, protein is found in cottage cheese.

#### 5. Bees : Swarm :: Monkeys : ?

[SSC CGL (Tier-1) 2022]

- (a) Colony (b) Shoal  
(c) Herd (d) Troop

- ⊗ (d) As, a group of bees is known as swarm. Similarly, a group of monkeys is known as troop.

#### 6. Calf : Cattle :: Foal : ?

[SSC CGL (Tier-1) 2022]

- (a) Elephant (b) Horse  
(c) Deer (d) Kangaroo

- ⊗ (b) As cattle's baby is called calf. Similarly, horse's baby is called foal.

#### 7. Animal : Zoology :: Plant : ?

[SSC Steno Grade 'C' & 'D' 2022]

- (a) Geology  
(b) Palaeontology  
(c) Biology  
(d) Botany

- ⊗ (d) Zoology is the study of Animal. Similarly, Botany is the study of Plant.

#### 8. Physiology : Human body

[SSC CAPFs CPO SI/ASI 2022]

- (a) Ornithology : Insects  
(b) Entomology : Birds  
(c) Anthropology : Dinosaurs  
(d) Petrology : Rocks

- ⊗ (d) As, Physiology is the study of how the human body works. Similarly, Petrology is the study of rocks and how they form.

9. Worried : Anxious :: At ease : ?

[SSC CAPFs CPO SI/ASI 2022]

- (a) Distraught (b) Calm  
(c) Bothered (d) Perturbed

⊙ (b) As, 'Anxious' is synonyms of 'Worried'. Similarly, 'Calm' is synonym of 'At ease'.

10. Force : Newton :: Current : ?

[SSC CAPFs CPO SI/ASI 2022]

- (a) Volt (b) Ampere  
(c) Charge (d) Coulomb

⊙ (b) Force unit is Newton. Similarly, Current unit is Ampere.

11. Select the option that is related to the third word in the same way as the second word is related to the first word.

Canberra : Australia :: Doha : ?

[SSC MTS & Havaladar 2022]

- (a) Qatar (b) Iran  
(c) Yemen (d) Kuwait

⊙ (a) As, Canberra is the capital of Australia. Similarly, Doha is the capital of Qatar.

12. Select the option that is related to the fifth word in the same way as the second word is related to the first word and the fourth word is related to the third word.

[SSC MTS & Havaladar 2022]

Virat Kohli : Cricket :: Saina Nehwal : Badminton :: Viswanathan Anand : ?

- (a) Basketball (b) Chess  
(c) Tennis (d) Football

⊙ (b) As, Virat Kohli plays Cricket and Saina Nehwal plays Badminton. Similarly, Viswanathan Anand plays Chess.

**Directions** (Q. Nos. 13-15) *Select the option that is related to the third word in the same way as the second word is related to the first word.*

[SSC CHSL (Tier-1) 2021]

13. Circle : Arc :: Flower : ?

- (a) Smell (b) Perfume  
(c) Colour (d) Petal

⊙ (d) As, Arc is the small part of circle, in the same way, petal is the small part of flower.

14. Spoon : Feeding :: Microscope : ?

- (a) Heating (b) Radiating  
(c) Grinding (d) Magnifying

⊙ (d) As, spoon is used for feeding in the same way, microscope is used for magnifying.

15. Mason : Floor

- (a) Teacher : Blackboard  
(b) Doctor : Hospital  
(c) Judge : Court  
(d) Carpenter : Door

⊙ (d) A mason builds floors, walls etc. in the same way, a carpenter makes things out of wood like, doors, windows etc.

16. 'Farsightedness' is related to 'Eyes' in the same way as 'Gout' is related to ..... [SSC CHSL (Tier-1) 2021]

- (a) Joints (b) Heart (c) Liver (d) Hair

⊙ (a) 'Farsightedness' is a vision condition in which the nearby objects are blurry and this condition is related to 'Eye'. Similarly, 'Gout' is a form of arthrities characterised by severe pain, redness and tenderness in joints.

17. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Doctor : Cardiologist

[SSC CHSL (Tier-1) 2021]

- (a) Nurse : Injection  
(b) Teacher : Education  
(c) Engineer : Chemical Engineer  
(d) Surgeon : Operation

⊙ (c) As, cardiologist is a doctor. In the same way, chemical engineer is an engineer.

18. Select the option that is related to the third word in the same way as the second word is related to the first word. [SSC CHSL (Tier-1) 2021]

Allow : Forbid :: Bragging : ?

- (a) Modesty (b) Sensitive  
(c) Boast (d) Swagger

⊙ (a) As, allow is antonym of forbid. Similarly, bragging is the antonym of modesty.

19. 'Musician' is related to 'Piano', in the same way as 'Farmer' is related to ..... [SSC CHSL (Tier-1) 2021]

- (a) Bullock (b) Plough  
(c) Field (d) Cultivation

⊙ (b) As, musician plays piano. Similarly, farmer uses plough for farming.

20. 'Straw' is related to 'Nest' in the same way as 'cotton' is related to '.....'. [SSC CHSL (Tier-1) 2021]

- (a) Textile industry (b) Thread  
(c) Sewing (d) Wool

⊙ (b) As, 'Straw' is used to make Nest. Similarly, Cotton is used to make Thread.

21. Select the option in which the words share the same relationship as that shared by the given pair of words. [SSC CHSL (Tier-1) 2021]

Ammeter : Electric current

- (a) Density : Lactometer  
(b) Pressure : Barometer  
(c) Hygrometer : Humidity  
(d) Polarimeter : Steps

⊙ (c) As, Ammeter is an electronic instrument to measure Electric current. Similarly, Hygrometer is an instrument to measure Humidity.

22. Select the option that is related to the third word in the same way as the second word is related to the first word. [SSC CHSL (Tier-1) 2021]

Flock : Sheep :: Crowd : ?

- (a) Swans (b) Human  
(c) Fly (d) Fish

⊙ (b) As, Group of Sheep is called Flock. Similarly, group of Human is called Crowd.

**Directions** (Q. Nos. 23 and 24) *Select the option in which the words share the same relationship as that shared by the given pair of words.* [SSC CHSL (Tier-1) 2021]

23. Mosquito : Swarm

- (a) Monkey : Pride (b) Shark : School  
(c) Snake : Sleuth (d) Cat : Murder

⊙ (b) As, group of mosquitos is called swarm. Similarly, group of sharks is called school.

24. Growth : Expansion

- (a) Child : Birth  
(b) Urge : Request  
(c) First : Last  
(d) Temporary : Permanent

⊙ (b) As, Growth and expansion are synonyms of each other. In the same way, urge and request are synonyms of each other.

25. Select the option that is related to the third word in the same way as the second word is related to the first term. [SSC CHSL (Tier-1) 2021]

Bed : Quilt :: Chair : ?

- (a) Sack (b) Cushion  
(c) Pillow (d) Fom

⊙ (b) As, Quilt is used on Bed. Similarly, 'Cushion' is used for sitting on a 'Chair'.

**Directions** (Q. Nos. 26 and 27) *Select the option that is related to the third word-pair in the same way as the second word-pair is related to the first word-pair.* [SSC CHSL (Tier-1) 2021]