

Analogy

————— *Reasoning with Mohit Kawatra*

Analogy is one of the most common topics which can be seen in almost all Government exams be it Banking, SSC, Railway, Insurance or Defence. In Analogy Logical Reasoning, Analogy depicts the "resemblance of one object to another in certain aspects." The aim of analogies are to test the candidate's ability to discover the relationship between the question pair, and then find the required pair of words, which is most similar to that relationship

सादृश्य सबसे आम विषयों में से एक है जिसे लगभग सभी सरकारी परीक्षाओं में देखा जा सकता है चाहे वह बैंकिंग, एसएससी, रेलवे, बीमा या रक्षा हो। सादृश्य तार्किक तर्क में, सादृश्य कुछ पहलुओं में एक वस्तु की दूसरी वस्तु से समानता को दर्शाता है। सादृश्य का उद्देश्य प्रश्न जोड़ी के बीच संबंध खोजने के लिए उम्मीदवार की क्षमता का परीक्षण करना है, और फिर शब्दों की आवश्यक जोड़ी ढूँढना है, जो उस संबंध के सबसे समान है।

.....Type-1

1. $\left[\left(\frac{7}{9}\right), \left(\frac{31}{39}\right)\right], \left[\left(\frac{3}{5}\right), \left(\frac{15}{23}\right)\right]$

SSC CGL 17/07/2023

- (a) $\left[\left(\frac{11}{13}\right), \left(\frac{47}{55}\right)\right]$ (b) $\left[\left(\frac{9}{13}\right), \left(\frac{37}{55}\right)\right]$
(c) $\left[\left(\frac{9}{11}\right), \left(\frac{32}{37}\right)\right]$ (d) $\left[\left(\frac{17}{19}\right), \left(\frac{36}{77}\right)\right]$

2. If $12 @ 2 = 145$ and $15 @ 2 = 226$, then $24 @ 2 = ?$

SSC CHSL 16/03/2023

- (a) 577 (b) 676
(c) 575 (d) 576

3. If $36 @ 2 = 1296$ and $4 @ 4 = 256$, $9 @ 3 = ?$

SSC CHSL 16/03/2023

- (a) 729 (b) 343
(c) 512 (d) 6561

4. $24 : 840 :: 27 : ? :: 33 : 1452$

SSC CGL 01/12/2022

- (a) 756 (b) 297
(c) 1026 (d) 729

5. $12 : 16 :: 18 : ? :: 24 : 64$

SSC CGL 01/12/2022

- (a) 26 (b) 32
(c) 28 (d) 36

6. $8 : 496 :: ? : 204 :: 9 : 711$

SSC CGL 02/12/2022

- (a) 5 (b) 13
(c) 6 (d) 11

7. $25 : 264 :: 31 : ? :: 49 : 456$

SSC CGL 03/12/2022

- (a) 312 (b) 314
(c) 297 (d) 961

8. $10 : 45 :: ? : 28 :: 11 : 55$

SSC CGL 06/12/2022

- (a) 9 (b) 8
(c) 12 (d) 10

9. $16 : 96 :: ? : 161 :: 18 : 120$

SSC CGL 13/12/2022

- (a) 22 (b) 21
(c) 20 (d) 24

10. $8 : 48 :: ? : 143 :: 15 : 195$

SSC CGL 13/12/2022

- (a) 13 (b) 17
(c) 19 (d) 11

11. $9 : 109 :: 7 : 71 :: 13 : ?$

SSC CGL 27/12/2022

- (a) 238 (b) 229
(c) 218 (d) 209

12. $10 : 0 :: 12 : ? :: 16 : 3$

SSC CGL 24/12/2022

- (a) 4 (b) 5
(c) 3 (d) 1

13. $5 : 14 : 12 : ? : 17 : 86$

SSC CGL 26/12/2022

- (a) 51 (b) 56
(c) 67 (d) 63

14. $786 : 7 :: 645 : 5 :: 282 : ?$

SSC CGL 27/12/2022

- (a) 6 (b) 5
(c) 8 (d) 4

15. $3 : 19 :: 2 : 7 :: 5 : ?$

SSC CGL 27/12/2022

- (a) 69 (b) 51
(c) 59 (d) 61

16. $223 : 350 :: 519 : ?$

SSC CGL 11/04/2022

- (a) 736 (b) 645
(c) 687 (d) 654

17. $8 : 108 :: 12 : ?$

SSC MTS 13/10/2021

- (a) 208 (b) 225
(c) 135 (d) 150

18. 625 : 5 :: 2560 : 8 :: 5000 : ?

SSC CGL 2023 Tier I

- (a) 9 (b) 12
(c) 10 (d) 15

19. 132 : 10 :: 42 : 5 :: 272 : ?

SSC CGL 2023 Tier I

- (a) 15 (b) 16
(c) 13 (d) 14

20. 1 : 7 :: 3 : 215 :: 4 : ?

SSC CGL 2023 Tier I

- (a) 453 (b) 324
(c) 511 (d) 363

21. 243 : 9 :: 72 : 6 :: 576 : ?

SSC CGL 2023 Tier I

- (a) 12 (b) 18
(c) 24 (d) 14

22. 15 : 270 :: 21 : ? :: 18 : 378

SSC CGL 2023 Tier I

- (a) 520 (b) 504
(c) 502 (d) 540

23. 3 : 18 :: 9 : ? :: 5 : 100

- (a) 500 (b) 236
(c) 648 (d) 435

24. 11 : 1309 :: 15 : 3345 :: 7 : ?

- (a) 329 (b) 333
(c) 330 (d) 335

25. 9 : 135 :: 6 : 54 :: 7 : ?

- (a) 84 (b) 74
(c) 77 (d) 85

26. 14 : 112 :: 24 : 312 :: 18 : ?

- (a) 198 (b) 180
(c) 162 (d) 148

27. 14 : 21 :: 34 : ? :: 47 : 87

- (a) 61 (b) 57
(c) 65 (d) 53

28. 375 : 592 :: 432 : 640 :: 198 : ?

- (a) 440 (b) 415
(c) 423 (d) 392

29. 24 : 137 :: 14 : ? :: 18 : 101

- (a) 87 (b) 65
(c) 82 (d) 77

30. 13 : 130 :: 15 : 180 :: 27 : ?

- (a) 649 (b) 658
(c) 650 (d) 648

31. 7 : 71 :: 13 : 209 :: 16 : ?

- (a) 291 (b) 317
(c) 305 (d) 309

32. 12 : 208 :: 9 : 108 :: 15 : ?

- (a) 350 (b) 360
(c) 325 (d) 365

33. 207 : 30 :: 108 : 19 :: 63 : ?

- (a) 18 (b) 20
(c) 14 (d) 11

34. 6 : 218 :: 3 : 56 :: 5 : ?

- (a) 156 (b) 152
(c) 168 (d) 160

35. 27 : 196 :: 19 : 100 :: 17 : ?

- (a) 57 (b) 81
(c) 96 (d) 89

36. 422 : 21 :: 366 : ?

UPSC

- (a) 18 (b) 66
(c) 36 (d) 6

37. 16 : 64 :: 40 : ?

MPPCS(PRE), 2018

- (a) 4 (b) 40
(c) 400 (d) 4000

38. 6 : 42 :: 9 : ?

MPPCS(PRE), 2016

- (a) 99 (b) 54
(c) 36 (d) None of these/इनमें से कोई नहीं

39. 121 : 6 :: 289 : ?

MPPCS(PRE), 2014

- (a) 12 (b) 22
(c) 15 (d) 19

.....Type-2

1. Courage : Bravery :: Sinister : ?

साहस : वीरता :: अशुभ : ?

SSC CHSL 24/05/2022

- (a) Auspicious/शुभ
(b) Benevolent/परोपकारी
(c) Ominous/अमंगल
(d) Kind/दयालु

2. Wilt : Droop :: Thrive : ?

मुरझाना : सूखना :: पनपना : ?

SSC CGL 2023 Tier I

- (a) Decline/गिरावट
(b) Careful/सावधान
(c) Deteriorate/ख़राब होना
(d) Flourish/फलने-फूलने

3. Auger : Bore
बरमा : बरमाना
SSC CGL 2023 Tier I
(a) Axe : Grind/ कुल्हाड़ी : पीसना
(b) Plier : Carve/ प्लायर : नक्काशी
(c) Spanner : Dig/ स्पैनर : खोदना
(d) Needle : Sew/ सुई : सीना
4. Attack : Defence :: Accept : ?
आक्रमण : बचाव :: स्वीकार : ?
SSC CGL 2023 Tier I
(a) Refuse/ मना कर देना
(b) Welcome/ स्वागत
(c) Receive/ प्राप्त करना
(d) Gain/ लाभ
5. Poor : Destitute :: Rich : ?
गरीब : बेसहारा :: अमीर : ?
SSC CGL 2023 Tier I
(a) Powerful/ ताकतवर
(b) Affluent/ धनी
(c) Meagre/ कमजोर
(d) Strong/ मजबूत
6. Portugal : Lisbon
पुर्तगाल : लिस्बन
SSC CGL 2023 Tier I
(a) Mozambique : Matola/ मोजाम्बिक : मटोला
(b) Turkey : Istanbul/ इस्तांबुल : तुर्की
(c) New Zealand : Canberra/ न्यूजीलैंड : कैनबरा
(d) Italy : Rome/ इटली : रोम
7. X-Ray : Radiologist :: Skin : ?
एक्स-रे : रेडियोलॉजिस्ट :: त्वचा : ?
SSC CGL 2023 Tier I
(a) Dermatologist/ त्वचा विशेषज्ञ
(b) Radiologist/ रेडियोलॉजिस्ट
(c) Physiologist/ फिजियोलॉजिस्ट
(d) Ophthalmologist/ नेत्ररोग विशेषज्ञ
8. Horse : Foal
घोड़ा : बछेड़ा
SSC CGL 2023 Tier I
(a) Dog : Mouse/ कुत्ता : चूहा
(b) Hen : Rooster/ मुर्गी : मुर्गा
(c) Cat : Kitten/ बिल्ली : बिल्ली का बच्चा
(d) Sheep : Pup/ भेड़ : पिल्ला
9. Fair : Righteous :: Cunning : ?
निष्पक्ष : धर्मी :: धूर्त : ?
SSC CGL 2023 Tier I
(a) Person/ व्यक्ति (b) Personality/ व्यक्तित्व
(c) Deceit/ छल (d) Character/ चरित्र

10. Ringworm : Skin :: Tapeworm : ?
दाद : त्वचा :: फीता कृमि : ?
SSC CGL 2023 Tier I
(a) Intestine/ आंत (b) Blood/ खून
(c) Lungs/ फेफड़े (d) Heart/ हृदय
11. Waive : Impose :: Spurious : ?
अधित्यक्त करना : थोपें :: नकली : ?
SSC Selection Post (Phase - XI)
(a) Counterfeit/ जाली
(b) Abjure/ त्यागना
(c) Original/ वास्तविक
(d) Sporadic/ छिटपुट
12. Amateur : Beginner :: Dangerous : ?
शौकिया : शुरुआती :: खतरनाक : ?
SSC Selection Post (Phase - XI)
(a) Precarious/ अनिश्चित
(b) Enduring/ टिकाऊ
(c) Peculiar/ विचित्र
(d) Tolerant/ सहिष्णु
13. Horror : Frigate :: Joy : ?
भय : फ्रिगट :: हर्ष : ?
SSC Selection Post (Phase - XI)
(a) Peace/ शांति (b) Calm/ शांत
(c) Delight/ आनंद (d) Sadness/ उदासी
14. Extrovert : Introvert :: Religious : ?
बहिर्मुखी : अंतर्मुखी :: धार्मिक : ?
SSC Selection Post (Phase - XI)
(a) Pessimist/ निराशावादी
(b) Optimist/ आशावादी
(c) Narcissist/ आत्ममुग्ध
(d) Atheist/ नास्तिक
15. Mettle : Diffidence :: Noxious : ?
उत्साह : संकोच :: हानिकारक : ?
SSC Selection Post (Phase - XI)
(a) Harmless/ हानिरहित
(b) Disastrous/ विनाशकारी
(c) Pernicious/ घातक
(d) Profitable/ लाभदायक
16. Time : Second :: Mass : ?
समय : सेकंड :: द्रव्यमान : ?
SSC Selection Post (Phase - XI)
(a) Measurement/ माप
(b) Kilogram/ किलोग्राम
(c) Scale/ पैमाना
(d) Commodity/ माल

17. Uproar : Peace :: Gloom : ?

हंगामा : शांति :: उदासी : ?

SSC Selection Post (Phase - XI)

- (a) Delight/आनंद (b) Obscurity/अस्पष्टता
(c) Shade/छाया (d) Murk/अंधकार

18. Pupils : Class :: Flower : ?

विद्यार्थी : कक्षा :: फूल : ?

SSC Selection Post (Phase - XI)

- (a) Brood/समूह (b) Bouquet/गुलदस्ता
(c) Rose/गुलाब (d) Band/बैंड

19. Escape : Abscond :: Idea : ?

पलायन : फरार :: विचार : ?

SSC Selection Post (Phase - XI)

- (a) Squander/अपव्ययी
(b) Empty/खाली
(c) Notion/धारणा
(d) Artificial/कृत्रिम

20. Warrior : Battlefield :: Gambler : ?

योद्धा : युद्धक्षेत्र :: जुआरी : ?

SSC Selection Post (Phase - XI)

- (a) Field/खेत
(b) Casino/कैसीनो
(c) Factory/कारखाना
(d) Garage/गराज

21. Anthropology : Human : Conchology : ?

मानवविज्ञान : मानव : शंखविज्ञान : ?

SSC Selection Post (Phase - XI)

- (a) Shells/शंख (b) Skull/खोपड़ी
(c) Soil/मिट्टी (d) Names/नाम

22. Termites : Colony :: Musicians : ?

दीमक : कॉलोनी :: संगीतकार : ?

SSC Selection Post (Phase - XI)

- (a) Crowd/भीड़ (b) Army/सेना
(c) Band/बैंड (d) Brood/समूह

23. Lethargy : Alertness :: Gradual : ?

सुस्ती : सतर्कता :: क्रमिक : ?

SSC Selection Post (Phase - XI)

- (a) Destroy/नष्ट करना
(b) Mourn/विलाप
(c) Shallow/उथला
(d) Abrupt/आकस्मिक

24. Focus : Distract :: Precise

फोकस : ध्यान भटकाना :: सटीक

- (a) Careless/लापरवाह (b) Specific/विशिष्ट
(c) Insufficient/नाकाफी (d) Strict/कठोर

25. Miniature : Giant :: Particle : ?

लघु : बहुत बड़ा :: कण : ?

- (a) Sub-atomic/उपपरमाण्विक
(b) Whole/साबुत
(c) Reluctance/अनिच्छा
(d) Dust/धूल

26. Chicken : Flock :: Bear : ?

मुर्गी : झुण्ड :: भालू : ?

- (a) Ambush/घात लगाना
(b) Clutter/अव्यवस्था
(c) Drove/गल्ला
(d) Sleuth/खोजी कुत्ता

27. Tissues : Histology

ऊतक : ऊतक विज्ञान

- (a) Shells : Ornithology
शैल : पक्षीविज्ञान
(b) Mountain : Onomatology
पर्वत : ओनोमैटोलॉजी
(c) Insects : Malacology
कीड़े : मैलाकोलॉजी
(d) Amphibians : Herpetology
उभयचर : हर्पेटोलॉजी

28. Anger : Emotion

क्रोध : भावना

- (a) Alertness : Courage/सतर्कता : साहस
(b) Rabbit : Mammal/खरगोश : स्तनपायी
(c) Grass : Lawn/घास : लॉन
(d) Table : Wood/टेबल : लकड़ी

29. Rat : Rodent

चूहा : कृतक

- (a) Frog : Reptile/ मेंढक : सरीसृप
(b) Cattle : Cow/मवेशी : गाय
(c) Whale : Shark/व्हेल : शार्क
(d) Ostrich : Bird/शुतुरमुर्ग : पक्षी

30. Handwriting : Graphology

हस्तलेखन : ग्राफोलॉजी

- (a) Matter : Physics/पदार्थ : भौतिकी
(b) Earthquakes : Pomology/भूकंप : पोमोलॉजी
(c) Soil : Ornithology/मिट्टी : पक्षीविज्ञान
(d) Fossils : Pedology/जीवाश्म : पेडोलॉजी

31. Sympathy : Affinity

सहानुभूति : आत्मीयता

- (a) Vivid : Dark/विशद : अंधकार
(b) Tranquil : Serene/शांत : निर्मल
(c) Tame : Harsh/वश में : कठोर
(d) Vain : Modest/व्यर्थ : विनम्र

32. Conceit : Modesty :: Despair : ?

दंभ : विनम्रता :: निराशा : ?

- (a) Anguish/पीड़ा
(b) Gloom/उदासी
(c) Hope/आशा
(d) Pain/दर्द

33. Varanasi : Ganga :: Mathura : ?

वाराणसी : गंगा :: मथुरा : ?

- (a) Yamuna/यमुना
(b) Godavari/गोदावरी
(c) Narmada/नर्मदा
(d) Ganga/गंगा

34. Coerce : Persuade :: Angry : ?

मजबूर करना : राजी करना :: क्रोधित होना : ?

- (a) Intimidate/डराना
(b) Furious/उग्र
(c) Dangerous/खतरनाक
(d) Damaging/नुकसान पहुँचाना

35. Tintometer : Colour

टिंटोमीटर : रंग

- (a) Viscometer : Wind/विस्कोमीटर : हवा
(b) Planimeter : Pressure/प्लैनीमीटर : दबाव
(c) Spirometer : Speed/स्पाइरोमीटर : गति
(d) Protractor : Angles/प्रोट्रेक्टर : कोण

36. Pullover : Wool

पुलओवर : ऊन

- (a) Linen : Latex/लिनन : लेटेक्स
(b) Pulp : Sack/पल्प : बोरी
(c) Prism : Glass/प्रिज्म : कांच
(d) Fabric : Ore/कपड़ा : अयस्क

37. Prism : Glass :: Rope : ?

प्रिज्म : कांच :: रस्सी : ?

- (a) Hemp/भांग
(b) Ore/अयस्क
(c) Pulp/लुगदी
(d) Latex/लेटेक्स

38. Litre : Millilitre

लीटर : मिलीलीटर

- (a) Luminance : Tesla/चमक : टेस्ला
(b) Kilogram : Gram/किलोग्राम : ग्राम
(c) Meter : Distance/मीटर : दूरी
(d) Inch : Height/इंच : ऊंचाई

39. Peacock : India :: Emu : ?

मोर : भारत :: एमु : ?

UPSC

- (a) Britain/ब्रिटेन
(b) France/फ्रांस
(c) New Zealand/न्यूजीलैंड
(d) Australia/ऑस्ट्रेलिया

40. Cub, Calf, Puppy

शावक, बछड़ा, पिल्ला

UPSC

- (a) Innocent/मासूम
(b) Offspring/संतति
(c) Lovely/प्यारा
(d) Attractive/आकर्षक

41. Unkind : Kind :: Inaction : ?

निर्दयी : दयालु :: निष्क्रियता : ?

UPSC

- (a) Intelligence/बुद्धिमत्ता
(b) Vigilance/सजगता
(c) Interest/रुचि
(d) Cleverness/चतुरता

42. Doctor: Nurse has the same relationship as Police Inspector: ? Is in.

डॉक्टर : नर्स में वही संबंध है जो पुलिस इंस्पेक्टर : ? में है।

UPPCS(Pre), 2013

- (a) Thief/चोर
(b) Constable/सिपाही
(c) Pistol/पिस्तौल
(d) Jail/जेल

43. Which of the following pairs has the same relationship as Australia is a continent?

निम्नलिखित युग्मों में से किसमें वही संबंध है जो है ऑस्ट्रेलिया : महाद्वीप में?

UPPCS(Pre), 2013

- (a) Engine: Train/इंजन : रेलगाड़ी
(b) River: Bank/नदी : तट
(c) Vikrant: Ship/विक्रान्त : जहाज
(d) Yuri Gagarin: Space/यूरीगागरिन : अंतरिक्ष

44. The pair 'before : after' is correctly related to which of the following?

युग्म पहले : बाद निम्नलिखित में से किससे ठीक से संबंधित है?

- (a) First : Second/प्रथम : द्वितीय
(b) Past : Present/भूतकाल : वर्तमान
(c) Historical: Contemporary/ऐतिहासिक : समकालीन
(d) Predecessor: Successor/पूर्वाधिकारी : उत्तराधिकारी

.....Type-3

1. XPF : DLV :: VAN : FAN :: ERY : ?

SSC CGL 21/07/2023

- (a) VIC (b) WJC
(c) VJC (d) WIC

2. YEN10 : CWN50 :: USD8 : GIX32 :: GDP12 : ?
SSC CGL 27/07/2023
(a) UWL72 (b) UXL72
(c) UXJ72 (d) TXL72
3. WOODLAND: ZIRXOUQX :: PERIODIC SYUCRXLW :: MAGAZINE: ?
SSC CGL 14/07/2023
(a) HERDWBMO
(b) LPWXSVCZ
(c) NSCAQOLP
(d) PUJUCCQY
4. BLISS: STNLF:: STOP : ?
SSC CHSL 16/10/2020
(a) BLSQ (b) TQST
(c) TTSQ (d) TTRR
5. PRINT: TWRIP:: CLOSE: ?
SSC CHSL 11/08/2021
(a) EQLNC (b) EOKHC
(c) EQKNC (d) EPLMC
6. PORCH : IDSPQ :: MOIST : ?
SSC CPO 24/11/2020
(a) OMITTS (b) UTJQO
(c) UTJPN (d) OPJTU
7. MOC: MKW:: SEL: GUN :: DKR : ?
SSC CGL 14/07/2023
(a) VOH (b) VOG
(c) VNH (d) VNG
8. PARROT : PTRKOM :: RECIPE: RXCBPX : RELISH: ?
SSC CGL 18/07/2023
(a) HJUIOK (b) LACXIO
(c) RXLBSA (d) TFSDBM
9. CYCLE : BXBKF :: TYRE : SXQF :: SCOOTER : ?
SSC CGL 20/07/2023
(a) TDNNUFQ (b) RBPPSFQ
(c) TDNNUDS (d) RBPPSDS
10. BULL : CDVWMNMN :: SHOT: TUIJPQUV :: TENS: ?
SSC CGL 17/07/2023
(a) UVFGOPTU
(b) OPTUUVFG
(c) OPTUOPTU
(d) UVFGUVFG
11. FUELED : DXBOAG :: GELATO : EHIDPR :: HEARTY: ?
SSC CGL 18/07/2023
(a) OPBSUJ (b) MQADFH
(c) FHXUPB (d) LNFCA
12. CIVILIAN : AGREFCFSF :: DOCTRINE BMYPLCFW:: EQUATION: ?
SSC CGL 17/07/2023
(a) NUGFSDAX (b) BURDSTER
(c) VUGHLOPA (d) COQWNCGF
13. GIST: FEHGRQSR :: DUCK: CBTSBAJI :: LOPE: ?
SSC CGL 25/07/2023
(a) KJNMONDC
(b) KONDCJNM
(c) KMONDCJN
(d) KMONDCNM
14. IDEOLOGY : YGILIYDC :: HARDWARE : YRUWDRUH :: ISOLATED : ?
SSC CGL 21/07/2023
(a) XCVFWIA (b) BUSIMAQS
(c) JOKLERD (d) DYTULISC
15. QIN : XPU :: DSY: KZF :: ALM : ?
SSC CGL 26/07/2023
(a) HTU (b) IST
(c) ITU (d) HST
16. SIMPLE : ISNHEL :: PUBLIC : UPYOCI :: MINUTE : ?
(a) NIMTUE (b) NIMETU
(c) IMUNET (d) IMMDET
17. UPRIGHT : PUVKTH :: DESTROY : ?
(a) EDWPVYO (b) EDPXNYO
(c) EDWWUY (d) DEWPVOY
18. RJB : TGF :: QPG : ?
(a) SMK (b) SOJ
(c) TNJ (d) RMK
19. MONKEY : XDJMNL :: TIGER : ?
(a) QDFHP (b) QDFHR
(c) QDFHS (d) DQFHS
20. POINT : TPKQP :: BONES : SPPHB :: SEVEN : ?
(a) MEXHS (b) NEXHS
(c) MFXHS (d) NFXHS
21. EVIDENT : NTIDEEV :: DYNAMIC : ICNAMDY :: FICTION : ?
(a) NOICTIF (b) ONTCIFI
(c) NOITCIF (d) ONCTIFI
22. MASTER : AMHGRE :: LUXURY : ULCFYR :: FORMAL : ?
(a) OFMRAL (b) OFAYLA
(c) OFYAAL (d) OFINLA

23. PLANK : RMDOM :: TABLE : VBEMG ::
ZEBRA : ?
(a) BEFSC (b) CFESC
(c) BFESC (d) CEFSC
24. DFC : WHX :: KFQ : ?
(a) PHJ (b) QHJ
(c) RGK (d) QHK
25. SEVERAL : MZSDWDT ::
HEADING : ?
(a) HMICBDJ (b) HMJCBDI
(c) JDBCIMH (d) IDBCJMH
26. JOKERS : NKOAVO :: ROMING : ?
(a) VKQERC (b) VKQGRB
(c) WKQDRB (d) VKRESC
27. RAM : 49 :: JON : ?
UPSC
(a) 42 (b) 39
(c) 34 (d) 48
28. PITY : 35 :: NOTE : ?
UPSC
(a) 27 (b) 37
(c) 54 (d) 74

Answer Keys:-

Type 1

1. (a) 2. (a) 3. (a) 4. (c) 5. (d) 6. (c)
7. (a) 8. (b) 9. (b) 10. (a) 11. (d) 12. (d)
13. (b) 14. (d) 15. (d) 16. (a) 17. (a) 18. (c)
19. (a) 20. (c) 21. (a) 22. (b) 23. (c) 24. (a)
25. (c) 26. (b) 27. (a) 28. (b) 29. (d) 30. (d)
31. (c) 32. (a) 33. (c) 34. (b) 35. (b) 36. (d)
37. (c) 38. (d) 39. (a)

Type 2

1. (c) 2. (d) 3. (d) 4. (a) 5. (b) 6. (d)
7. (a) 8. (c) 9. (c) 10. (a) 11. (c) 12. (a)
13. (c) 14. (d) 15. (a) 16. (b) 17. (a) 18. (b)
19. (c) 20. (b) 21. (a) 22. (c) 23. (d) 24. (a)
25. (b) 26. (d) 27. (d) 28. (b) 29. (d) 30. (a)
31. (b) 32. (c) 33. (a) 34. (b) 35. (d) 36. (c)
37. (a) 38. (b) 39. (d) 40. (b) 41. (b) 42. (b)
43. (c) 44. (d)

Type 3

1. (b) 2. (b) 3. (d) 4. (d) 5. (a) 6. (c)
7. (a) 8. (c) 9. (b) 10. (a) 11. (c) 12. (d)
13. (a) 14. (d) 15. (d) 16. (d) 17. (a) 18. (a)
19. (c) 20. (d) 21. (d) 22. (d) 23. (c) 24. (a)
25. (b) 26. (a) 27. (a) 28. (a)

Solution

.....Type-1

$$1.(a) \quad \frac{\text{Numerator of the first number} \times 4+3}{\text{Denominator of the first number} \times 4+3} = \frac{\text{Numerator of the first number}}{\text{Denominator of the first number}}$$

$$\left[\frac{7}{9}, \frac{31}{39} \right] :- \frac{7 \times 4+3}{9 \times 4+3} = \frac{31}{39}$$

$$\left[\frac{3}{5}, \frac{15}{23} \right] :- \frac{3 \times 4+3}{5 \times 4+3} = \frac{15}{23}$$

Similarly,

$$\left[\frac{11}{13}, \frac{47}{55} \right] :- \frac{11 \times 4+3}{13 \times 4+3} = \frac{47}{55}$$

$$2.(a) \quad 12 @ 2 = 145 = (12)^2 + 1 = 145$$

$$15 @ 2 = 226 = (15)^2 + 1 = 226$$

Similarly,

$$24 @ 2 = ? = (24)^2 + 1 = 577$$

$$3.(a) \quad (\text{first number})^{\text{second number}} = \text{third number}$$

$$(36)^2 = 1296$$

$$(4)^4 = 256$$

Similarly,

$$(9)^3 = 729$$

$$4.(c) \quad \text{Logic : } (n : n^2 + n \times 11)$$

$$(24 : 840) = (24 : 24^2 + 24 \times 11) = 840$$

$$(33 : 1452) = (33 : 33^2 + 33 \times 11) = 1452$$

Similarly,

$$(27 : 1026) = (27 : 27^2 + 27 \times 11) = 1026$$

$$5.(d) \quad \text{Logic :- } a : \left(\frac{a}{3}\right)^2$$

$$12 : \left(\frac{12}{3}\right)^2 = 16$$

$$18 : \left(\frac{18}{3}\right)^2 = 36$$

Similarly,

$$24 : \left(\frac{24}{3}\right)^2 = 64$$

$$6.(c) \quad \text{Logic :- } a : (a^3 - 2 \times a)$$

$$8 : (8^3 - 2 \times 8) = 496$$

$$6 : (6^3 - 2 \times 6) = 204$$

Similarly,

$$9 : (9^3 - 2 \times 9) = 711$$

$$7.(a) \quad \text{Logic :- } \{n : (n+8) \times 8\}$$

$$(25 : 264) = (25 : 33 \times 8)$$

$$(49 : 456) = (49 : 57 \times 8)$$

Similarly,

$$(31 : 312) = (31 : 39 \times 8)$$

$$8.(b) \quad \text{Logic :- } \{n : (n^2 - n) \div 2\}$$

$$(10 : 45) = \{10 : (10^2 - 10) \div 2\}$$

$$(11 : 55) = \{11 : (11^2 - 11) \div 2\}$$

Similarly,

$$(8 : 28) = \{8 : (8^2 - 8) \div 2\}$$

$$9.(b) \quad \text{Logic :- } n : n \times \frac{n+2}{3}$$

$$(16 : 96) = 16 \times \frac{16+2}{3} = 96$$

$$(18 : 120) = 18 \times \frac{18+2}{3} = 120$$

Similarly,

$$(21 : 161) = 21 \times \frac{21+2}{3} = 161$$

$$10.(a) \quad \text{Logic :- } n : n^2 - (n \times 2)$$

$$8 : 48 = 8^2 - (8 \times 2) = 48$$

$$15 : 195 = 15^2 - (15 \times 2) = 195$$

Similarly,

$$? : 143 = ?^2 - (? \times 2) = 143$$

So, ? = 13

$$11.(d) \quad \text{Logic :- } n : [n \times (n + 3)] + 1$$

In 9 : 109, $9 : [9 \times (9 + 3)] + 1$

$$= 9 : [9 \times 12] + 1 = 9 : 108 + 1 = 9 : 109$$

In 7 : 71, $7 : [7 \times (7 + 3)] + 1$

$$= 7 : [7 \times 10] + 1 = 7 : 70 + 1 = 7 : 71$$

In 13 : (?), $13 : [13 \times (13 + 3)] + 1$

$$= 13 : [13 \times 16] + 1 = 13 : 208 + 1 = 13 : 209$$

$$12.(d) \quad \frac{1 \times 0}{2} = 0,$$

$$\frac{1 \times 6}{2} = 3,$$

Similarly,

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

$$13.(b) \quad \text{Logic :-}$$

(First number $\times 6 - 16 =$ Second number)

$$(5 \times 6 - 16 = 14)$$

$$(12 \times 6 - 16 = 56)$$

Similarly,

$$(17 \times 6 - 16 = 86)$$

- 14.(d) In 786 : 7, $7 + 8 + 6 = 21 \div 3 = 7$
 In 645 : 5, $6 + 4 + 5 = 15 \div 3 = 5$
 Similarly,
 In 282 : (?), $2 + 8 + 2 = 12 \div 3 = 4$
 So, we get 282 : 4

- 15.(d) Logic : Cube of 1st number - Cube of (1st number - 1) = 2nd number
 $3 : 19$
 $= 3^3 - (3-1)^3$
 $= 3^3 - 2^3 = 19$
 $2 : 7$
 $= 2^3 - (2-1)^3$
 $= 2^3 - 1^3 = 7$
 Similarly, $5 : ?$
 $= 5^3 - (5-1)^3$
 $= 5^3 - 4^3 = 61$

- 16.(a) Logic :- $n^3 + 7 : (n + 1)^3 + 7$
 In 223 : 350 = $6^3 + 7 : 7^3 + 7$
 $= 216 + 7 : 343 + 7 = 223 : 350$
 Similarly,
 $8^3 + 7 : 9^3 + 7 = 512 + 7 : 729 + 7$
 $= 519 : 736$

- 17.(a) Pattern :- $n : (n + 1) \times (n + 4)$
 $8 : (8 + 1) \times (8 + 4) = 9 \times 12 = 108$
 $12 : (12 + 1) \times (12 + 4) = 13 \times 16 = 208$

- 18.(c) Logic :- (Second number)³ $\times$ 5 = First number
 $625 : 5 :- (5)^3 \times 5 :- (125) \times 5 = 625$
 Similarly,
 $5000 : ? :- (10)^3 \times 5 :- (1000) \times 5 = 5000$

- 19.(a) Logic :- (Second number + 1)² + (Second number + 1) = First number
 $(132 : 10) = (10 + 1)^2 + (10 + 1) = 132$
 Similarly,
 $(272 : ?) = (15 + 1)^2 + (15 + 1) = 272$

- 20.(c) Logic :- (First number $\times$ 2)³ - 1 = Second number
 $1 : 7 = (1 \times 2)^3 - 1 = 8 - 1 = 7$
 $3 : 215 = (3 \times 2)^3 - 1 = 216 - 1 = 215$
 Similarly,
 $4 : ? = (4 \times 2)^3 - 1 = 512 - 1 = 511$

- 21.(a) Logic :- First number = (Second number)² $\times$ (Second number $\div$ 3)
 $(243 : 9) :- 243 = (9)^2 \times (9 \div 3),$
 $81 \times 3 = 243$
 $(72 : 6) :- 72 = (6)^2 \times (6 \div 3),$
 $36 \times 2 = 72$
 $(576 : ?) :- 576 = (12)^2 \times (12 \div 3),$
 $144 \times 4 = 576$

- 22.(b) Logic :- (First number)² + (First number) $\times$ 3 = Second number
 $15 : 270 :- (15)^2 + (15) \times 3$

$$= (225) + 45 = 270$$

Similarly,
 $21 : ? :- (21)^2 + (21) \times 3$
 $= (441) + 63 = 504$

- 23.(c) **Logic** :- $n : (n^3 - n^2)$
 In 3: 18, $3 : (3^3 - 3^2) = 3 : (27 - 9)$
 $= 3 : 18$
 In 5: 100, $5 : (5^3 - 5^2) = 5 : (125 - 25)$
 $= 5 : 100$
 In 9: (?), $9 : (9^3 - 9^2) = 9 : (729 - 81)$
 $= 9 : 648$

- 24.(a) Logic :- $n : (n^3 - 2n)$
 In (11 : 1309), $11 : (11^3 - 2 \times 11) = 11$
 $(1331 - 22) = 11 : 1309$
 In (15 : 3345), $15 : (15^3 - 2 \times 15) = 15$
 $(3375 - 30) = 15 : 3345$
 Similarly, in 7 : (?), $7 : (7^3 - 2 \times 7) = 7 :$
 $(343 - 14) = 7 : 329$

- 25.(c) In 9 : 135, $9(9-1) + 9(9-2) = 9 \times 8 + 9$
 $\times 7 = 72 + 63 = 135$
 In 6 : 54, $6(6-1) + 6(6-2) = 6 \times 5 + 6$
 $\times 4 = 30 + 24 = 54$
 Similarly
 In 7 : ?, $7(7-1) + 7(7-2) = 7 \times 6 + 7 \times$
 $5 = 42 + 35 = 77$
 So, we get 7 : 77

26.(b) $14 \times \left(\frac{14}{2} + 1\right) = 112$

$$24 \times \left(\frac{24}{2} + 1\right) = 312$$

$$18 \times \left(\frac{18}{2} + 1\right) = 180$$

- 27.(a) Logic : (Number $\times$ 2) - 7
 $(14 \times 2) - 7 = 28 - 7 = 21$
 $(34 \times 2) - 7 = 68 - 7 = 61$
 $(47 \times 2) - 7 = 94 - 7 = 87$

- 28.(b) In 375 : 592, $375 + 217 = 592$
 In 423 : 640, $423 + 217 = 640$
 In 198 : ?, $198 + 217 = 415$
 So, we get 198 : 415.

- 29.(d) Logic: $[a : (a \times 6 - 7)]$
 In 24: 137, $24 : (24 \times 6 - 7) =$
 $24 : (144 - 7) = 24 : 137$
 In 18: 101, $18 : (18 \times 6 - 7) =$
 $18 : (108 - 7) = 18 : 101$
 In 14: (?), $14 : (14 \times 6 - 7) =$
 $14 : (84 - 7) = 14 : 77$

30.(d) Logic :- $n : (n) \times (n-3)$
 In 13: 130, $13 : (13) \times (13-3) =$
 $13 : 13 \times 10 = 13 : 130$
 In(15 : 180), $15 : (15) \times (15-3) = 15 : 15$
 $\times 12 = 15 : 180$
 Similarly, $27 : (?)$, $27 : (27) \times$
 $(27-3) = 27 : 27 \times 24 = 27 : 648$

31.(c) Logic:- $[n : n \times (n+3) + 1]$
 In 7: 71, $7 : 7 \times (7+3)+1 =$
 $7 : 7 \times 10 + 1 = 7 : 70 + 1 = 7 : 71$
 $13 : 209$, $1 : 13 \times (13 + 3) + 1 =$
 $13 : 13 \times 16 + 1 = 13 : 208 + 1 =$
 $13 : 209$
 Similarly, in 16: (?), $16 : 16 \times$
 $(16 + 3) + 1 = 16 : 16 \times 19 + 1 =$
 $16 : 304 + 1 = 16 : 305$

32.(a) Logic :- $n : [n^2 + \left(\frac{n}{3}\right)^3]$

In 12 : 208, $12 : [12^2 + \left(\frac{12}{3}\right)^3] = 12$
 $[144 + 4^3] = 12 : [144 + 64] = 12 : 208$

In (9 : 108), $9 : [9^2 + \left(\frac{9}{3}\right)^3] = 9 : [81 +$
 $3^3] = 9 : [81 + 27] = 9 : 108$

Similarly, In 15 : (?), $15 : [15^2 + \left(\frac{15}{3}\right)^3]$
 $= 15 : [225 + 5^3] =$
 $15 : [225 + 125] = 15 : 350$

33.(c) Logic:- $(n - 7) \times 9 : n$
 In 207 : 30, $(30 - 7) \times 9 : 30 = 23 \times 9 :$
 $30 = 207 : 30$
 In 108 : 19, $(19 - 7) \times 9 : 19 = 12 \times 9 :$
 $19 = 108 : 19$
 Similarly, $63 : (?)$, $(14 - 7) \times 9 : 14 = 7$
 $\times 9 : 14 = 63 : 14$

34.(b) Logic: $(1st\ no + 1)^3 - (1st\ no - 1)^3 = 2nd$
 $no.$
 In 6 : 218, $(6 + 1)^3 - (6 - 1)^3 = 7^3 - 5^3 =$
 $343 - 125 = 218$
 In 3 : 56, $(3 + 1)^3 - (3 - 1)^3 = 4^3 - 2^3 = 64$
 $- 8 = 56$
 Similarly, in 5 : ? , we get
 $(5 + 1)^3 - (5 - 1)^3 = 6^3 - 4^3 =$
 $216 - 64 = 152$

35.(b) $(27 + 1) \div 2 = 14 = 14^2 = 196$
 $(19 + 1) \div 2 = 10 = 10^2 = 100$ Similarly,
 $(17 + 1) \div 2 = 9 = 9^2 = 81$

36.(d) Just as,
 $422 \Rightarrow \frac{42}{2} = 21$
 Similarly,
 $366 \Rightarrow \frac{36}{6} = 6$

37.(c) Just as,
 $16 \xrightarrow{+2} 8 \xrightarrow{square} 8^2 = 64$
 Similarly,
 $40 \xrightarrow{+2} 20 \xrightarrow{square} 20^2 = 400$

38.(d) Just as $6 \times 7 = 42$
 Similarly, $9 \times 7 = 63$
 $\therefore$ option (d) is the correct answer

39.(a) Just as $121 = (11)^2 = 11 - 5 = 6$
 Similarly, $289 = (17)^2 = 17 - 5 = 12$

.....Type-2

2023

- 1.(c) Synonym of Courage is Bravery.
Similarly, the synonym of Sinister is Ominous.
- 2.(d) As wilt is the synonym of droop
Similarly, thrive is the synonym of flourish.
- 3.(d) As Auger is used to Bore, Similarly,
Needle is used to Sew.
- 4.(a) As antonym of attack is defense
similarly, the antonym of Accept is refuse.
- 5.(b) As the poor are destitute, Similarly the
rich are affluent.
- 6.(d) As lisbon is the capital of Portugal,
Similarly Rome is the capital of Italy.
- 7.(a) Radiologist is a doctor who examines
the x-ray Similarly a Dermatologist is
a doctor who examines the skin.
- 8.(c) As a child of a horse is called a foal,
Similarly a child of a cat is called a
Kitten.
- 9.(c) As fair is synonym of Righteous,
Similarly Cunning is synonym of
Deceit.
- 10.(a) As ringworm is a common skin

- infection, Similarly Tapeworm are intestinal parasites that can live in side another animal or plant.
- 11.(c) As waive is an antonym of impose similarly spurious is antonym of original.
- 12.(a) As amateur is the synonym of beginner, Similarly dangerous is the synonym of precarious.
- 13.(c) Horror is synonym of Fright, Similarly Joy is synonym of Delight
- 14.(d) As extrovert is the antonym of introvert similarly religious is antonym of atheist.
- 15.(a) As mettle is antonym of diffidence similarly noxious is antonym of Harmless.
- 16.(b) The SI unit of Time is Second, Similarly the SI unit of Mass is Kilogram.
- 17.(a) As the antonym of uproar is peace similarly the antonym of gloom is delight.
- 18.(b) As class is made up from Pupils, Similarly Bouquet is made up from Flowers.
- 19.(c) As Escape is synonym of Abscond, Similarly Idea is synonym of Notion.
- 20.(b) As warrior battles on the battlefield similarly Gambler, gambles in Casino.
- 21.(a) Study of Human is Known as Anthropology, Similarly Study of Shells is Known as Conchology.
- 22.(c) Group of termites is called colony, Similarly Gradual is antonym of Abrupt.
- 23.(d) Lethargy is antonym of Alertness, Similarly Gradual is antonym of Abrupt.
- 24.(a) Distract is the antonym of Focus. Similarly, Careless is the antonym of Precise.
- 25.(b) Miniature and Giant are antonyms to each other. Similarly, Part and whole are antonyms to each other.
- 26.(d) As a group of chickens is known as flock, similarly a group of Bear is known as Sleuth.
- 27.(d) As, study of Tissues is known as Histology similarly Study of Amphibians is known as Herpetology.
- 28.(b) Anger is a type of emotion similarly Rabbit is a type of mammal.
- 29.(d) Order of rats is rodent similarly the order of Ostrich is Bird.
- 30.(a) The study of handwriting is known as Graphology. In the same way, the study of matter is known as Physics.
- 31.(b) As, sympathy and affinity are synonyms of each other in the same way Tranquil and serene are synonyms of each other.
- 32.(c) As Conceit is the antonym of Modesty in the same way Despair is the antonym of Hope.
- 33.(a) As Varanasi is situated on the bank of river Ganga in the same way Mathura is situated on the bank of river Yamuna.
- 34.(b) As coerce is the synonym of Persuade in the same way Angry is synonym to Furious.
- 35.(d) As, Tintometer is used to measure the intensity of colour similarly Protractor is used to measure Angle.
- 36.(c) As pullover is made up of wool similarly prism is made up of Glass.
- 37.(a) As Prism is made up of Glass similarly Rope is made up of Hemp.
- 38.(b) As litre and millilitre are units of volume similarly kilogram and gram are the units of weight.
- 39.(d) Australia is the correct answer. Just like India is the national bird, similarly, Australia's national bird is Emu.
- 40.(b) All three are children i.e. offspring of three different animals

- 41.(b) Just as opposite of Unkind is Kind.
Similarly the opposite of Inaction is Vigilance
- 42.(b) Just as there are nurses to assist the doctors, similarly there are constables to assist the police inspector.
- 43.(c) Just as Australia is a continent, Vikrant is a ship.
- 44.(d) 'Just as 'before' : 'after' are related, in the same way 'predecessor' : 'successor' are related.

.....**Type-3**

- 1.(b)
- | | | | | | |
|------|------|------|------|------|------|
| X | P | F | V | A | N |
| oppo | oppo | oppo | oppo | oppo | oppo |
| C | K | U | E | Z | M |
| +1 | +1 | +1 | +1 | +1 | +1 |
| D | L | V | F | A | N |

Similarly,

E	R	Y
oppo	oppo	oppo
V	I	B
+1	+1	+1
W	J	C

- 2.(b) Logic :- Last number = (number)² × $\frac{1}{2}$

Y	E	N	10	U	S	D	8
-1	-1	-1		-1	-1	-1	
X	D	M		T	R	C	
oppo	oppo	oppo		oppo	oppo	oppo	
C	W	N	50	G	I	X	32

Similarly,

G	D	P	12
-1	-1	-1	
F	C	O	
oppo	oppo	oppo	
U	X	L	72

- 3.(d)
- | | | | | | | | |
|----|----|----|----|----|----|----|----|
| W | O | O | D | L | A | N | D |
| +3 | -6 | +3 | -6 | +3 | -6 | +3 | -6 |
| Z | I | R | X | O | U | Q | X |

Similarly,

M	A	G	A	Z	I	N	E
+3	-6	+3	-6	+3	-6	+3	-6
P	U	J	U	C	C	Q	Y

- 4.(d) Correct alphabetical order
BLISS, STOP

+4	+3	+2	+1	+0
B	I	L	S	S
S	T	N	L	F

Similarly,

+3	+2	+1	+0
O	P	S	T
T	T	R	R

- 5.(a) Logic :- First and last letter are interchanged third letter is written in reverse alphabetical order and 5 is added and subtracted from the second and fourth letter respectively.
C - L - O - S - E is E - (L + 5) - L - (S-5) = N) - C
So, EQLNC is the correct answer.

- 6.(c) Logic :- Increase 1 and then reverse the letter.
So MOIST ⇒ NPJTU and now on reversing we get UTJPN.

- 7.(a)
- | | | |
|------|------|------|
| M | O | C |
| +1 | +1 | +1 |
| N | P | D |
| oppo | oppo | oppo |
| M | K | W |

Similarly,

D	K	R
+1	+1	+1
E	L	S
oppo	oppo	oppo
V	O	H

- 8.(c)
- | | | | | | |
|----|----|----|----|----|----|
| P | A | R | R | O | T |
| -7 | -7 | -7 | -7 | -7 | -7 |
| P | T | R | K | O | M |

Similarly,

R	E	L	I	S	H
-7	-7	-7	-7	-7	-7
R	X	L	B	S	A

- 9.(b) Logic :- Vowel takes +1 with their place value and consonants takes -1 with their place value

C	Y	C	L	E
-1	-1	-1	-1	+1
B	X	B	K	F

Similarly,

S	C	O	O	T	E	R
-1	-1	+1	+1	-1	+1	-1
R	B	P	P	S	F	Q

10.(a)

B U L L
 $+1 \quad +2 \quad +1 \quad +2 \quad +1 \quad +2 \quad +1 \quad +2$
 C D V W M N M N

Similarly,

T E N S
 $+1 \quad +2 \quad +1 \quad +2 \quad +1 \quad +2 \quad +1 \quad +2$
 U V F G O P T U

11.(c)

F U E L E D
 $-2 \quad +3 \quad -3 \quad +3 \quad -4 \quad +3$
 D X B O A G

Similarly,

H E A R T Y
 $-2 \quad +3 \quad -3 \quad +3 \quad -4 \quad +3$
 F H X U P B

12.(d)

C I V I L I A N
 $-2 \quad -2 \quad -4 \quad -4 \quad -6 \quad -6 \quad -8 \quad -8$
 A G R E F C S F

Similarly,

E Q U A T I O N
 $-2 \quad -2 \quad -4 \quad -4 \quad -6 \quad -6 \quad -8 \quad -8$
 C O Q W N C G F

13.(a)

G I S T
 $-1 \quad -2 \quad -1 \quad -2 \quad -1 \quad -2 \quad -1 \quad -2$
 F E H G R Q S R

Similarly,

L O P E
 $-1 \quad -2 \quad -1 \quad -2 \quad -1 \quad -2 \quad -1 \quad -2$
 K J N M O N D C

14.(d) Logic :- Vowels are decreasing by 6 and consonants are written the same.

I D E O L O G Y
 $-6 \quad -6 \quad -6 \quad -6 \quad -6 \quad -6 \quad -6$
 Y G I L I Y D C

Similarly,

I S O L A T E D
 $-6 \quad -6 \quad -6 \quad -6 \quad -6 \quad -6 \quad -6$
 D Y T U L I S C

15.(d)

Q I N X P U
 $+7 \quad +7 \quad +7$

Similarly,

A L M H S T
 $+7 \quad +7 \quad +7$

16.(d)

First two letters are interchanged respectively and third and fourth letter are opposite and next two letters are also interchanged.

S I M P L E P U B L I C
 I S N K E L U P Y O C I

Similarly,

M I N U T E
 I M M F E T

17.(a)

U P R I G H T D E S T R O Y
 $+4 \quad -4 \quad +4 \quad +4 \quad -4 \quad -4 \quad +4 \quad -4$
 P U V E K T H E D W P V Y O

18.(a)

R J B Q P G
 $+2 \quad -3 \quad +4 \quad +2 \quad -3 \quad +4$
 T G F S M K

19.(c)

Logic :- reverse the word and subtract 1 from each letter
 So, TIGER on reversing REGIT and on subtracting 1 we get QDFHS

20.(d)

P O I N T B O N E S
 $+1 \quad +2 \quad +3 \quad +1 \quad +2 \quad +3$
 T P K Q P S P P H B

Similarly,

S E V E N
 $+1 \quad +2 \quad +3$
 N F X H S

21.(d)

Logic : In each word, 1st and 2nd letter is replaced by 6th and 7th letter respectively and vice - versa. Remaining three letters remain the same.

E V I D E N T D Y N A M I C
 N T I D E E V I C N A M D Y

Similarly,

F I C T I O N
 O N C T I F I

22.(d) **MASTER** Similarly **FORMAL**
 $\begin{array}{c} \text{X} \quad \text{X} \\ \text{A} \quad \text{R} \\ \text{M} \quad \text{E} \\ \text{H} \quad \text{G} \end{array}$ $\begin{array}{c} \text{X} \quad \text{X} \\ \text{O} \quad \text{L} \\ \text{F} \quad \text{A} \\ \text{I} \quad \text{N} \end{array}$
 (Opposite letter) (Opposite letter)

23.(c) **PLANK** Similarly, **ZEBRA**
 $\begin{array}{c} +2 \quad +1 \quad +3 \quad +1 \quad +2 \\ \text{R} \quad \text{M} \quad \text{D} \quad \text{O} \quad \text{M} \end{array}$ $\begin{array}{c} +2 \quad +1 \quad +3 \quad +1 \quad +2 \\ \text{B} \quad \text{F} \quad \text{E} \quad \text{S} \quad \text{C} \end{array}$

24.(a) **D F C** Similarly, **K F Q**
 $\begin{array}{c} \text{Opp.} \quad +2 \quad \text{Opp.} \\ \text{W} \quad \text{H} \quad \text{X} \end{array}$ $\begin{array}{c} \text{Opp.} \quad +2 \quad \text{Opp.} \\ \text{P} \quad \text{H} \quad \text{J} \end{array}$

25.(b) Logic :- Reverse the word and apply +1, -1, +1, -1 pattern
 So, HEADING $\rightarrow$ GNIDAEH and on applying the +1, -1, pattern it gives HMJCBDI.

26.(a) Logic :- +4, -4, +4, -4, pattern is followed
 So, R + 4 = V, O - 4 = K,
 M + 4 = Q, I - 4 = E, N + 4 = R,
 G - 4 = C
 So, VKQERC is correct answer.

27.(a) Just as, RAM = 9 + 26 + 14 = 49
 Similarly, JON = 17 + 12 + 13 = 42

28.(a) Just as P+I+T+Y = 16 + 9 + 20 + 25
 = 70 = 70 $\div$ 2 = 35
 Similarly,
 N+O+T+E = 14 + 15 + 20 + 5 = 54 $\div$ 2 = 27