

SSC-JE

Staff Selection Commission

Junior Engineer

General Intelligence and Reasoning

Previous Years Solved Papers of Paper-I (Prelims)
of Exams held between 2010-2025

Civil, Mechanical & Electrical Engineering

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E-mail : infomep@madeeasy.in

Contact : 9021300500

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SSC-Junior Engineer : General Intelligence and Reasoning

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Preface

Staff Selection Commission-Junior Engineer has always been preferred by Engineers due to job stability. SSC-Junior Engineer examination is conducted every year. MADE EASY team has deeply analyzed the previous exam papers and observed that a good percentage of questions are repetitive in nature, therefore it is advisable to solve previous years papers before a candidate takes the exam.



The SSC JE texam is conducted in two stages as shown in table given below.

Papers	Subject	Maximum Marks	Duration
Stage 1: Paper-I : Objective Type	(i) General Intelligence & Reasoning	50 Marks	2 hours
	(ii) General Awareness	50 Marks	
	(iii) General Engineering : Electrical/Mechanical/Civil	100 Marks	
Stage 2: Paper-II : Objective Type	General Engineering : Electrical/Mechanical/Civil	300 Marks	2 hours
Syllabus Paper-I			
<p>(i) General Intelligence & Reasoning: The Syllabus for General Intelligence would include questions of both verbal and non-verbal type. The test may include questions on analogies, similarities, differences, space visualization, problem solving, analysis, judgement, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series etc. The test will also include questions designed to test the candidate's abilities to deal with abstract ideas and symbols and their relationships, arithmetical computations and other analytical functions.</p> <p>(ii) General Awareness: Questions will be aimed at testing the candidate's general awareness of the environment around him/her and its application to society. Questions will also be designed to test knowledge of current events and of such matters of everyday observations and experience in their scientific aspect as may be expected of any educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture, Geography, Economic Scene, General Polity and Scientific Research, etc. These questions will be such that they do not require a special study of any discipline.</p>			
<p>Note: In Paper-I, every question carry one mark and there is negative marking of $\frac{1}{4}$ marks for every wrong answer. Candidates shortlisted in Stage 1 are called for Stage 2. On the basis of combined score in Stage 1 and Stage 2, final merit list gets prepared.</p>			

MADE EASY has taken due care to provide complete solution with accuracy. Apart from Staff Selection Commission-Junior Engineer, this book is also useful for Public Sector Examinations and other competitive examinations for engineering graduates.

I have true desire to serve student community by providing good source of study and quality guidance. Any suggestion from the readers for improvement of this book is most welcome.

B. Singh (Ex. IES)
Chairman and Managing Director
MADE EASY Group

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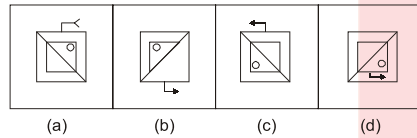
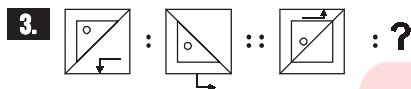
Directions for Questions (1 to 9): Select the related letters/word/number/figure from the given alternatives.

1. ABC : 149 :: ? : 4916

- (a) BCD (b) BDC
(c) CDB (d) DIB

2. WVRT : MLGJ :: SRNP : ?

- (a) HGCE (b) IHCF
(c) JIGE (d) HGCF



4. 01 : 08 :: ? : 64

- (a) 09 (b) 16 (c) 25 (d) 36

5. DEFIANT : OBEDIENT :: DEPRAVIT : ?

- (a) GOODNESS
(b) SADNESS
(c) SERIOUSNESS
(d) OBEDIENT

6. 5 : 23 :: 9 : ?

- (a) 39 (b) 43 (c) 47 (d) 51

7. MN eg : GE nm :: ? : AL sq

- (a) qsLA (b) QS la
(c) QslA (d) qSLA

8. COW : HERD :: FISH : ?

- (a) GROUP (b) CROWD
(c) COLLEGE (d) SCHOOL

9. $\frac{PO}{31} : \frac{NM}{27} :: \frac{IH}{17} : ?$

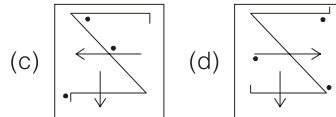
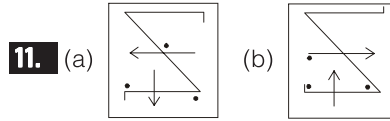
- (a) $\frac{GT}{14}$ (b) $\frac{GF}{13}$
(c) $\frac{GM}{16}$ (d) $\frac{GV}{16}$

Directions for Questions (10 to 18):

Find the odd number/letters/figure/number pair from the given alternatives.

- 10.** (a) Pancreas
(b) Ductless glands

- (c) Duct glands
(d) Parathyroid



- 12.** (a) 7431 (b) 8354
(c) 5410 (d) 6421

- 13.** (a) (72, 81) (b) (48, 56)
(c) (42, 49) (d) (36, 42)

- 14.** (a) TGRI (b) WDUF
(c) NHLI (d) ZAXC

- 15.** (a) ooo pqT (b) cccdGH
(c) iiiJMN (d) sssTWX

- 16.** (a) Radio (b) Telephone
(c) Television (d) Wireless

- 17.** (a) F (b) A
(c) N (d) X

- 18.** (a) RISK (b) VIGOUR
(c) SLUGGISH (d) ENERGETIC

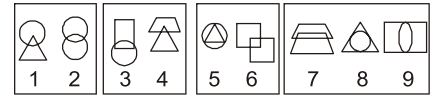
19. From the alternatives, select the set which is most like the given set.
Given set: (3, 9, 27):

- (a) (2, 4, 6) (b) (1, 3, 8)
(c) (4, 12, 17) (d) (5, 25, 125)

20. Arrange the following words as per order in the dictionary

- (i) REPIECE (ii) REPEAL
(iii) REPLACE (iv) REPOINT
(v) REPAIR
(a) (iv) (iii) (i) (ii) (v)
(b) (v) (ii) (i) (iii) (iv)
(c) (v) (ii) (i) (iv) (iii)
(d) (ii) (i) (iii) (iv) (v)

21. A series of figures are given which can be grouped into classes. Select the group into which the figures can be classified from the given responses.



- (a) $\begin{matrix} 1, 2, 3 \\ 4, 5, 6 \\ 7, 8, 9 \end{matrix}$ (b) $\begin{matrix} 2, 4, 7 \\ 1, 3, 5 \\ 6, 8, 9 \end{matrix}$

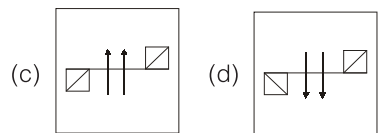
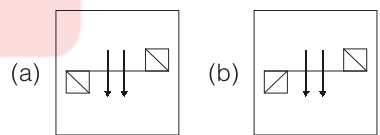
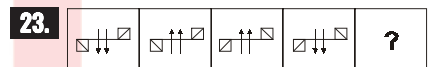
- (c) $\begin{matrix} 2, 6, 7 \\ 5, 8, 9 \\ 1, 3, 4 \end{matrix}$ (d) $\begin{matrix} 1, 3, 5 \\ 2, 4, 6 \\ 7, 8, 9 \end{matrix}$

22. Arrange the following in the appropriate sequence

- (i) House (ii) Roofing
(iii) Foundation (iv) Lintel
(v) Plastering (vi) Flooring
(a) (iii) (iv) (ii) (v) (vi) (i)
(b) (iii) (iv) (v) (ii) (vi) (i)
(c) (vi) (iii) (ii) (iv) (v) (i)
(d) (i) (iii) (iv) (vi) (v) (ii)

Directions for Questions (23 to 29):

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.



- 24.** 5, 6, 7, 8, 10, 11, 14, 2, 19
(a) 15 (b) 16 (c) 17 (d) 18

- 25.** 7, 14, 42, 168,?
(a) 750 (b) 780
(c) 840 (d) 850

- 26.** 857, 969, 745, 1193, 2
(a) 2089 (b) 1084
(c) 207 (d) 297

27. ACZXP, BDYYQ, CEXZR, DFWAS, ?, FHUCU

- (a) FGVBT (b) EGUBT
(c) EGVZT (d) EGVBT

28. $\frac{C}{F}, \frac{E}{J}, \frac{G}{N}, \frac{I}{R}, ?$

- (a) $\frac{K}{V}$ (b) $\frac{L}{V}$ (c) $\frac{K}{U}$ (d) $\frac{M}{N}$

29. C, I, N, T, ?, E, J

- (a) A (b) X (c) Y (d) Z

30. Santosh is 5 years older than his wife Pooja and Pooja's age now is thrice the age of their daughter Sangeetha. Sangeetha is now 10 years old. What was the age of Santosh when Sangeetha was born?

- (a) 20 (b) 25 (c) 30 (d) 28

31. After interchanging $-$ and \times , 5 and 8, which one of the following becomes a correct equation?

- (a) $8 - (5 \times 3) = 25$ (b) $(3 \times 5) - 8 = 34$
(c) $(5 - 3) \times 8 = 26$ (d) $(5 - 3) \times 8 = 12$

32. From the given alternatives select the word which cannot be formed using the letters of the given words.

CONGRATULATIONS

- (a) GRANT (b) CAUTION
(c) SCHOOL (d) TRANSACT

33. If POWER is coded as KLDVI how can FAITH be coded ?

- (a) UZRGs (b) GASGV
(c) HCRIU (d) JRMPY

34. (i) Krishna is the brother of Rama.
(ii) Mala is the sister of Krishna.
(iii) Pallu is the brother of Naku.
(iv) Naku is the daughter of Rama.
Then who is the uncle of Pallu?

- (a) Krishna (b) Rama
(c) naku (d) Mala

35. In a queue, Rita is 10th from front and Sheetal is 25th from behind, Tara is in the middle of the two, If there are fifty (50) persons in the queue, What is Tara's position from the front?

- (a) 18th (b) 19th (c) 20th (d) 17th

36. Find the two signs which will make the following equation correct if they are interchanged

$$5 + 6 + 3 - 12 \times 2 = 17$$

- (a) \div and \times (b) $+$ and \times
(c) $+$ and \div (d) $+$ and $-$

37. If 8514 stands for BEAD and 3165 stands for LATE, then which choice stands for the word TABLE

- (a) 61835 (b) 86145
(c) 61853 (d) 61584

38. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

- _ ab _ ba _ d _ ab _ ba _ d**
(a) b a b b b d (b) d a b b d b
(c) b d a b d b (d) b d b b d b

Directions for Questions (39 and 40):

Select the missing number from the given alternatives.

39. 937 (28) 216
521 (?) 418

- (a) 12 (b) 17 (c) 21 (d) 32

40. 9 8 3
7 9 4
3 2 ?
189 144 96

- (a) 12 (b) 15 (c) 8 (d) 10

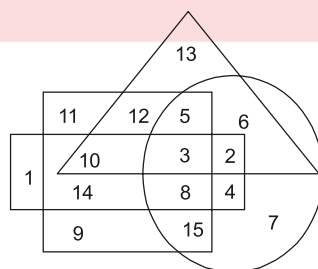
41. Which of the two numbers represent the same category?

\triangle = Physicians

\bigcirc = Rich persons

\square = Surgeons

\square = Greedy persons



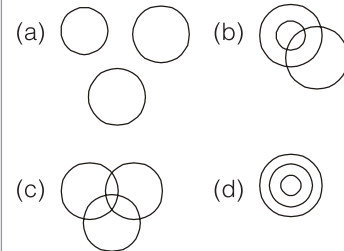
- (a) 5 and 14 (b) 9 and 11
(c) 2 and 10 (d) 11 and 14

42. Two buses start from the opposite points of a main road, 150 kms. apart. The first bus runs for 25 kms. and takes a turn to right and runs for 15 kms. It then, turns left and runs for another 25 kms. and takes the direction back to reach the main road. In the mean time, due to a minor breakdown, the other bus has run only 35 kms. along the main road. What

would be the distance between the two buses at this point

- (a) 75 kms (b) 80 kms
(c) 65 kms (d) 85 kms

43. Which of the following diagrams represents the relationships between Indians, Doctors, and Surgeons?



44. A group of friends is sitting in an arrangement with one each at the corner of an octagon. All are facing the centre. Medha is sitting diagonally opposite Radha who is on Seema's right. Raman is next to Seema and opposite to Govind who is on Chandra's left. Shanti is not to Medha's right but opposite to Shashi. Who is opposite to Chandra?

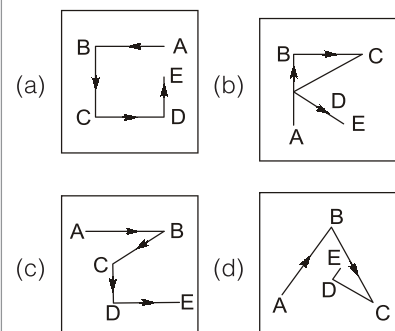
- (a) Raman (b) Shanti
(c) Radha (d) Seema

45. Unscramble the letters/alphabet to make a meaningful word.

U	R	A	G	N	E	C	A	S
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)

- (a) (ii) (viii) (iv) (iii) (v) (vi) (vii) (i) (ix)
(b) (iv) (i) (v) (vi) (ii) (iii) (ix) (viii) (vii)
(c) (vii) (viii) (ix) (v) (vi) (iv) (iii) (ii) (i)
(d) (ix) (i) (iv) (iii) (ii) (vii) (viii) (v) (vi)

46. Ashok starts from 'A' and walks to East to 'B'. Then turns South-West and walks to 'C'. Then he turns South and walks to 'D'. Lastly he turns East again and walks to 'E'. Which of the answer figure is the exact path he has walked?



Directions for Questions (47 and 48):

One/two statements are given followed by I/II conclusions/ assumptions respectively. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions/ assumptions, if any, follow from the given statements.

47. Conservation of ecology leads to the developments technology:

Assumptions:

- (i) Technology and ecology are interdependent.
- (ii) Development of technology depends upon conservation of technology.

- (a) If (i) is implicit.
- (b) (ii) is implicit.
- (c) Both (i) and (ii) are implicit.
- (d) Both (i) and (ii) are not implicit.

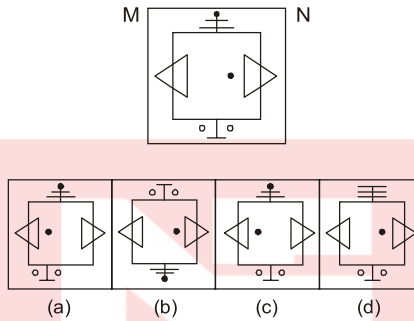
48. Statements:

- (a) Some skirts are benches.
- (b) No bench is a table.

Conclusions:

- (i) Some skirts are tables.
- (ii) Some benches are skirts.
- (iii) All benches are skirts.
- (iv) Some tables are skirts.
- (a) Only (i) follows
- (b) Only (ii) follows
- (c) Only (ii) and (iv) follows
- (d) None of the conclusions follows

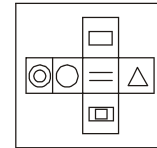
49. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given questions figure?



50. Six different figures are drawn as shown in the figure:

A paper is folded as shown in the figure to form a cube.

What is the figure opposite to ⊙ (two circle)



- (a) [Square with horizontal line]
- (b) [Square with triangle]
- (c) [Square with square]
- (d) [Square with square inside square]



ANSWERS KEY SSC-JE SOLVED PAPER-2010

- 1. (a) 2. (b) 3. (c) 4. (a) 5. (a) 6. (a) 7. (b) 8. (a) 9. (b) 10. (a)
- 11. (b) 12. (a) 13. (c) 14. (c) 15. (a) 16. (d) 17. (b) 18. (c) 19. (d) 20. (b)
- 21. (c) 22. (a) 23. (d) 24. (a) 25. (c) 26. (d) 27. (d) 28. (a) 29. (c) 30. (b)
- 31. (a) 32. (c) 33. (a) 34. (a) 35. (a) 36. (a) 37. (a) 38. (d) 39. (c) 40. (c)
- 41. (b) 42. (c) 43. (b) 44. (d) 45. (d) 46. (c) 47. (d) 48. (b) 49. (b) 50. (a)

EXPLANATION SSC-JE SOLVED PAPER-2010

1. (a) ABC : 149
 $A = 1 = 1^2$
 $B = 4 = 2^2$
 $C = 9 = 3^2$
 $\therefore D = 16 = 4^2$
 $\therefore 4916 = BCD$

2. (b)

4. (a) 01 : 08 :: 09 : 64
 $1^2 2^3$ $3^2 4^3$

5. (a) DEFIANT : OBEDIENT
 DEPRAVIT : GOODNESS

6. (a) 5 : 5 × 4 + 3 :: 9 : 9 × 4 + 3
 5 : 23 :: 9 : 39

7. (b)

8. (a) Many cows together is called a herd. Similarly many fish together is called a group.

9. (b) $\frac{PO}{31} : \frac{NM}{27} :: \frac{IH}{17} : \frac{GF}{13}$

$P + O = 16 + 15 = 31$
 $I + H = 9 + 8 = 17$
 $N + M = 14 + 13 = 27$
 $G + F = 7 + 6 = 13$

where the number represents the respective position of alphabets when arranged in ascending order.

10. (a) Pancreas is a mixed gland (both duct and ductless gland). Whereas parathyroid is a ductless gland.

12. (a) 7431 is the only number divisible by 3.

13. (c) $(72, 81) \Rightarrow (9 \times 6, 9 \times 7)$
 $(48, 56) \Rightarrow (8 \times 6, 8 \times 7)$
 $(42, 49) \Rightarrow (7 \times 6, 7 \times 7)$
 $(36, 42) \Rightarrow (6 \times 6, 6 \times 7)$

14. (c) $TGRI \Rightarrow Z - 6 = T; A + 6 = G; Z - 8 = R; A + 8 = I$
 $WDUF \Rightarrow Z - 4 = W; A + 4 = D; Z - 5 = U; A + 5 = F$
 $NHLI \Rightarrow Z - 12 = N; A + 7 = H; Z - 14 = L; A + 8 = I$
 Not matching Not Matching
 $ZAXC \Rightarrow Z - 0 = Z; A + 0 = A; Z - 2 = X; A + 2 = C$

15. (a) $o o o p q T$
 $\uparrow \uparrow \uparrow$
 $+1 +3$

$c c c d G H$
 $\uparrow \uparrow \uparrow$
 $+1 +1$

$i i i J M N$
 $\uparrow \uparrow \uparrow$
 $+1 +1$

$s s s T W X$
 $\uparrow \uparrow \uparrow$
 $+1 +1$

16. (d) Wireless is a technology to provide connectivity to radio, telephone or television.

17. (b) 'A' is a vowel. 'F', 'N' and 'X' are consonants.

18. (c) SLUGGISH means slow-moving or inactive which is opposite to the meaning of other three.

19. (d) $(3, 9, 27) \Rightarrow (3, 3^2, 3^3)$
 $(5, 25, 125) \Rightarrow (5, 5^2, 5^3)$

21. (c) 2, 6, 7 \rightarrow Similar figure with only a part overlapping
 5, 8, 9 \rightarrow different figure with one fully overlapping the other
 1, 3, 4 \rightarrow different figure with only a part overlapping.

22. (a) Foundation \rightarrow Lintel \rightarrow Roofing \rightarrow Plastering \rightarrow Flooring \rightarrow House

24. (a) 5, 6, 7, 8, 10, 11, 14, 15, 19

$\uparrow \uparrow \uparrow \uparrow \uparrow$

+2 +3 +4 +5

25. (c) 7, 14, 42, 168, 840

$\uparrow \uparrow \uparrow \uparrow \uparrow$

$\times 2 \quad \times 3 \quad \times 4 \quad \times 5$

26. (d) 857, 969, 745, 1193, 297

$\uparrow \uparrow \uparrow \uparrow \uparrow$

+112 +448

-224 -896

27. (d) The sequence is:

-1

AC ZXP BD YYQ

$\uparrow \uparrow \uparrow \uparrow$

+1

28. (a) $\frac{C}{F}, \frac{E}{J}, \frac{G}{N}, \frac{I}{R}, \frac{K}{V}$

$\uparrow \uparrow \uparrow \uparrow \uparrow$

+4 +4 +4 +4

+2 +2 +2 +2

29. (c) C, I, N, T, Y, E, J

$\uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow$

+6 +6 +6

+5 +5 +5

30. (b) Given,

Sangeetha's age = 10

\therefore Pooja's age = $3 \times$ Sangeetha's age
 $= 3 \times 10 = 30$

Santosh age = Pooja's age + 5
 $= 30 + 5 = 35$

When, Sangeetha was born (i.e. 10 yrs ago),
 Santosh age = $35 - 10 = 25$ years

31. (a) $8 - (5 \times 3) = 25$ before
 $\downarrow \downarrow \downarrow \downarrow$
 $5 \times (8 - 3) = 25$ correct

32. (c) The letter 'H' from SCHOOL is not present in CONGRATULATIONS.

33. (a) $POWER \Rightarrow P = Z - 10; O = Z - 11; W = Z - 3;$

$E = A + 4; R = Z - 8$

$KLDVJ \Rightarrow K = A + 10; D = A + 3; V = Z - 4;$

$1 = A + 8$

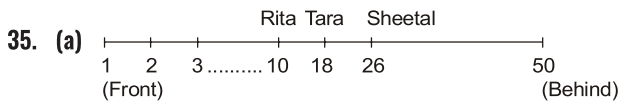
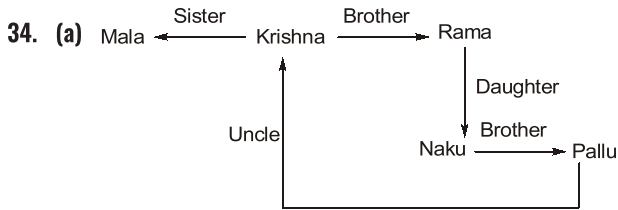
Similarly,

$FAITH \Rightarrow F = A + 5; A = A + 0; J = A + 8;$

$T = Z - 6; H = A + 7$

$UZRGs \Rightarrow U = Z - 5; Z = Z - 0; R = Z - 8;$

$G = A + 6; S = Z - 7$



Note: 25th from behind = 26th from front

∴ Middle position = $\frac{10+26}{2} = 18$ th from front

36. (a) $5 + 6 \div 3 - 12 \times 2 = 17$, before
Interchanging \div and \times ,
 $5 + 6 \times 3 - 12 \div 2 = 5 + 18 - 6 = 17$, correct

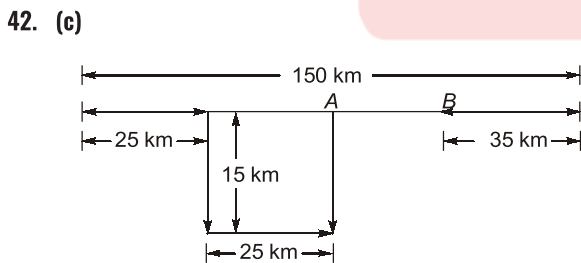
37. (a) $8514 = BEAD \Rightarrow B = 8,$
 $E = 5, A = 1, D = 4$
 $3165 = LATE \Rightarrow L = 3, A = 1,$
 $T = 6, E = 5$
∴ TABLE = 61835

38. (d) The repeated sequence is $b a b d$.

39. (c) $937(28)216 \Rightarrow (9 + 3 + 7) + (2 + 5 + 6) = 28$
∴ $521(21)418 \Rightarrow (5 + 2 + 1) + (4 + 1 + 8) = 21$

40. (c) $9 \times 7 \times 3 = 189$
 $8 \times 9 \times 2 = 144$
∴ $3 \times 4 \times 8 = 96$

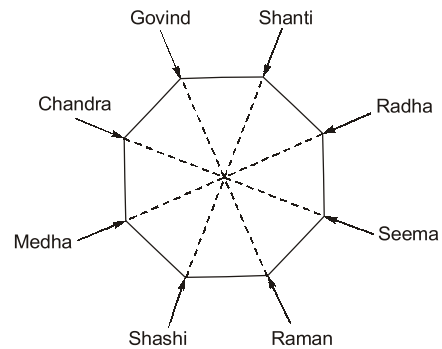
41. (b) 9 and 11 are surgeons only and do not fall into any other category.



∴ Distance between two bus = $150 - 35 - 25 - 25 = 65$ km

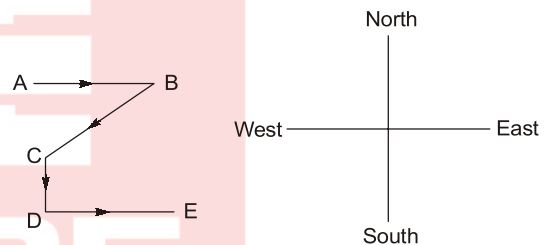
43. (b) All surgeons are doctors and some doctors are Indians.

44. (d)



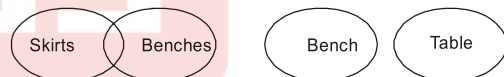
45. (d) The meaningful word is SUGARCANE.

46. (c)



47. (d) Both the assumptions are not essentially connected with the given statement and hence are not implicit.

48. (b)



- (i) Some skirts are tables – Probable but not certain.
 - (ii) Some benches are skirts – certain.
 - (iii) All benches are skirts – not certain.
 - (iv) Some table are skirts – Probable but not certain.
- Hence, only (ii) can be concluded with certainty.

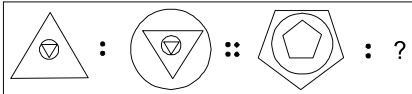


Directions for Questions (1 to 8):

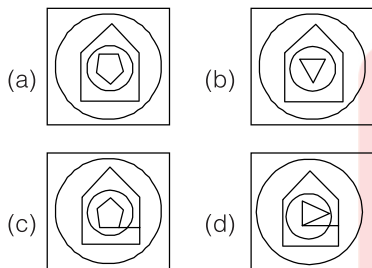
Select the related letters/word/number/figure from the given alternatives.

1. How many white cubes are there in the given structure?

Question figures:



Answer figures:



2. WASH : CLOTH :: SWEEP : ?

- (a) FACE (b) FLOOR
(c) PEON (d) SWEEPER

3. KEY : LOCK :: SWITCH : ?

- (a) BOARD (b) FAN
(c) ELECTRICITY (d) ON

4. 324 : CBD :: 456 : ?

- (a) DEF (b) FED
(c) FDE (d) EFD

5. 9 : 80 :: 100 : ?

- (a) 901 (b) 1009
(c) 9889 (d) 9999

6. 56 : 29 :: 38 : ?

- (a) 20 (b) 10
(c) 18 (d) 21

7. ECA : KIG :: QOM : ?

- (a) WUS (b) SUW
(c) UWY (d) RTV

8. ABNO : CDPQ :: EFRS : ?

- (a) IVKS (b) GITV
(c) JWXY (d) GHTU

Directions for Questions (9 to 15):

Find the odd number/letters/ number pair/word from the given alternatives.

9. (a) 589 (b) 886
(c) 697 (d) 398

10. (a) 51 (b) 144
(c) 64 (d) 121

11. (a) 8-64 (b) 12-144
(c) 17-279 (d) 13-169

12. (a) Jacket (b) Cloth
(c) Shirt (d) Trousers

13. (a) Petrol-Car
(b) Ink-Pen
(c) Garbage-Dustbin
(d) Lead-Pencil

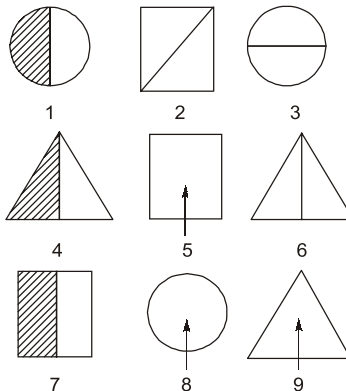
14. (a) KMN (b) GHI
(c) DFG (d) OQR

15. (a) BDCB (b) CDEC
(c) GHIG (d) PQRP

16. Which one of the given responses would be a meaningful order of the following words?

1. Stem 2. Leaf
3. Flower 4. Root
5. Bud
(a) 4, 1, 2, 5, 3 (b) 3, 1, 4, 2, 5
(c) 1, 2, 3, 5, 4 (d) 2, 1, 3, 4, 5

17. A series of figures are given which can be grouped into classes. Select the group into which the figures can be classified from the given responses.



- (a) 2, 3, 6; 1, 4, 9; 5, 7, 8
(b) 1, 3, 8; 2, 5, 7; 4, 6, 9
(c) 1, 4, 7; 2, 3, 6; 5, 8, 9
(d) 1, 4, 6; 2, 3, 9; 5, 7, 8

18. Which one of the given responses would be English dictionary order of the following words?

1. Passport 2. Picture
3. Package 4. Patience
5. Palace
(a) 1, 2, 3, 4, 5 (b) 5, 1, 4, 3, 2
(c) 2, 5, 1, 4, 3 (d) 3, 5, 1, 4, 2

Directions for Questions (19 to 23):

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

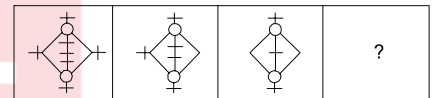
19. 2, 14, 38, ?, 182, 374

- (a) 96 (b) 116 (c) 86 (d) 106

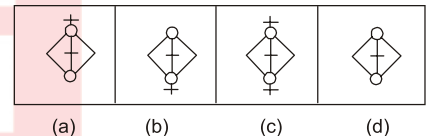
20. 3, 4, 12, 13, 39, 40, 120, ?, ?

- (a) 121, 363 (b) 121, 343
(c) 360, 121 (d) 360, 361

21. Question figures:



Answer figures:



22. R, U, X, A, D, ?

- (a) F (b) G (c) H (d) I

23. AFK, EJO, INS, ?

- (a) CGL (b) M (c) GU (d) T

24. Which one set of letters when sequentially placed at the gaps in the give letter series shall complete it?

Pq_r_q_r_qrr

- (a) rppp (b) rppr
(c) rpqr (d) rppr

25. In the morning at 6 a.m., Anoop walked 50 m towards the sun, then turned right and walked 40 m, then again turned right and walked 20 m, men again turned right and walked 40 m. How many meters is he from his original position?

- (a) 20 metres (b) 30 metres
(c) 50 metres (d) 60 metres

26. Of the five members of an interview committee sitting in a row, B is left to E but right to A. D is sitting right to C but left to A. Find the one sitting in the middle.
 (a) B (b) A (c) D (d) C

27. Which number is wrong in the given series?

5, 10, 19, 29, 41, 55

(a) 41 (b) 55 (c) 29 (d) 10

28. Nilesh walked 3 km west and turned right. He again walked 2 km. He turned left and walked 5 km. Finally, he turned left and walked 2 km. In which direction is Nilesh from the starting point?
 (a) South (b) North
 (c) West (d) East

29. The average age of 8 members of a committee was 40 years. If an old member of 55 years retires and a new number of 39 years is admitted, what is the average age of the present committee?
 (a) 39 years (b) 38 years
 (c) 36 years (d) 35 year

30. If 'CODING' is written as 'EQFKPI' in a certain code, how would 'DECODE' be written in that code?
 (a) FGEQGF (b) FGEQFG
 (c) FGEQEF (d) GEFQFG

31. If in a certain code "TWENTY" is written as 863985, 'ELEVEN' is written as 323039, how is 'TWELVE' written in that code?
 (a) 863203 (b) 863584
 (c) 863903 (d) 863063

32. Rashmi is younger to Sunita but older to Radha. Radha is elder to Geeta. Shyam is elder to Radha but younger to Rashmi. Who is the youngest amongst them?
 (a) Radha (b) Geeta
 (c) Rashmi (d) Shyam

33. A is B's son. C's father is F. F is D's son and B is D's daughter. How is A related to F?
 (a) Nephew (b) Niece
 (c) Cousin (d) Son-in-law

34. Mr. Rao is 12 times as old as his son. After 8 years, Mr. Rao will be 4 times as old as his son. What is the present age of Mr. Rao?

(a) 48 years (b) 32 years
 (c) 36 years (d) 40 years

35. Mohan ranks thirteenth from top in a class of twenty students. What is his rank from the bottom?
 (a) 7 (b) 6 (c) 8 (d) 9

36. A word given in capital letters is followed by four answer words. Out of these only one cannot be formed by using the letters of the given word. Find out that word.

AWARENESS:

(a) AWARE (b) NEAR
 (c) SENSE (d) NEST

37. Choose one word out of the given alternatives which can be formed from the letters of the word 'REFRIGERATOR'.

(a) RANGER (b) REMOTE
 (c) RATION (d) REFER

Directions for Questions (38 and 39):

Two/one statement(s) are given followed by four / two conclusions / assumptions respectively. You have to consider the two statements to be true even if they to be at variance from commonly known facts. You have to decide which of the given conclusions/assumptions, if any follow from the statements.

38. Statement:

Teacher who work towards excellence are eligible for the award.

Assumptions:

- I. All teachers work hard.
 - II. Only the excellent work is rewarded.
- (a) Assumption I is implicit
 (b) Assumption II is implicit
 (c) Assumption I and II are is implicit
 (d) Neither I nor II is implicit

39. Statements:

- 1. Madhuri is beautiful.
- 2. She can dance.

Conclusions:

- I. Dancers are beautiful.
 - II. Beautiful women are dancers.
 - III. Some beautiful women can also dance.
 - IV. If ugly, can't dance one.
- (a) All are true
 (b) None is true
 (c) Only (III) in is true
 (d) Only I is true

40. In the following questions, there is an address which has been reproduced against (a), (b), (c) and (d), three of which have some mistakes or the other. The one without any mistake is your answer: Ram Mohan S.B.

Raj Plaza, LBS Marg

Vikroli West, Mumbai - 400083

- (a) Rama Mohan SB. Raj Plaza, LBS Marg Vikroli West, Mumbai - 400083
- (b) Ram Mohan B.S. Raj Plaza, LBS Marg Vikroli West, Mumbai - 400083
- (c) Rama Mohan S.B. Raj Plaza, LBS Marg Vikroli West, Mumbai - 400083
- (d) Rama Mohan SB. Raj Plaza, LBS Marg Vikroli West, Mumbai - 400083

Directions for Questions (41 and 42):

Select the missing number from the given responses.

41.

4	12
32	
3	7

5	11
51	
1	8

9	6
?	
2	3

- (a) 2 (b) 30
 (c) 1 (d) 4

42.

7	8	9
9	4	5
3	9	?
189	288	90

- (a) 2 (b) 3 (c) 1 (d) 4

43. If '+' → 'x', '-' → '+', 'x' → '÷', '÷' → '-' which of the following is correct?

- (a) $30 + 10 - 12 \div 8 \times 12 = 46$
- (b) $30 \times 10 - 12 \times 8 + 12 = 48$
- (c) $30 \div 10 \times 12 + 8 - 12 = 14$
- (d) $30 - 10 + 12 \div 8 \times 12 = 40$

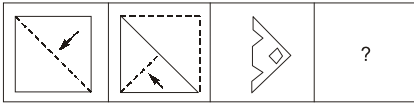
44. Postal PIN codes of 25 letters are given below. The first digit from the left indicates the zone. How many different postal zones are represented in the given sample?

101012	221718	303051	221104	421015
310032	101113	221018	230221	221054
308015	308012	221054	101012	221054
111118	221054	210512	221054	101114
210512	182114	128107	183115	610014

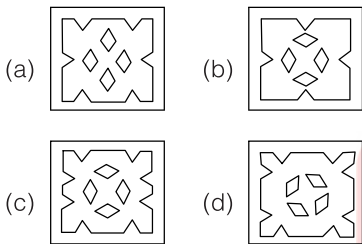
- (a) 05 (b) 10 (c) 13 (d) 04

45. Some equations are solved on the basis of a certain system. On the same basis find out the correct answer for the unsolved equation. If $133 = 70$, $426 = 120$, then $565 = ?$
 (a) 120 (b) 160 (c) 26 (d) 135

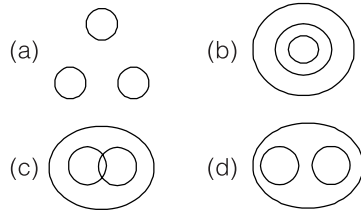
46. Question figure:



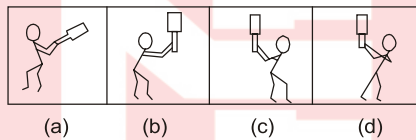
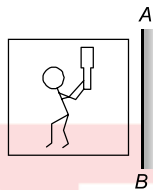
Answer figures:



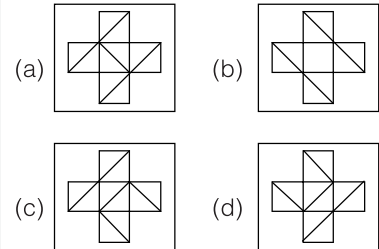
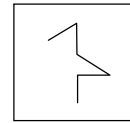
47. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened. Which of the given diagrams correctly represents the relationship among: Flowers, Lotuses and Roses?



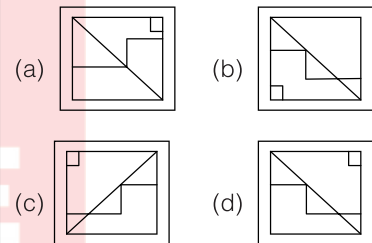
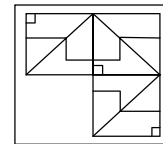
48. If a mirror is placed on the line AB, then which of the answer figures is the correct image of the given questions figures ?



49. From the given answer figures, select the one in which the question figure is hidden embedded.



50. Which answer figure will complete the question figure?



ANSWERS KEY

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1. (a) 2. (b) 3. (d) 4. (a) 5. (d) 6. (a) 7. (a) 8. (d) 9. (d) 10. (a)
 11. (c) 12. (b) 13. (d) 14. (b) 15. (a) 16. (a) 17. (c) 18. (d) 19. (c) 20. (a)
 21. (a) 22. (b) 23. (b) 24. (b) 25. (b) 26. (b) 27. (b) 28. (c) 29. (b) 30. (b)
 31. (a) 32. (b) 33. (a) 34. (c) 35. (c) 36. (d) 37. (d) 38. (b) 39. (c) 40. (b)
 41. (b) 42. (a) 43. (*) 44. (a) 45. (b) 46. (b) 47. (d) 48. (c) 49. (c) 50. (a)

EXPLANATION

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2. (b) We wash cloth;
 Similarly we sweep from the floor.

4. (a) Observe the place value of alphabets from left end
 $3 = C ; 2 = B ; 4 = D$
 Similarly $4 = D ; 5 = E ; 6 = F$

5. (d) Relationship between 9 and 80 is one subtracted from square of first number

$$\Rightarrow 9^2 - 1 = 80$$

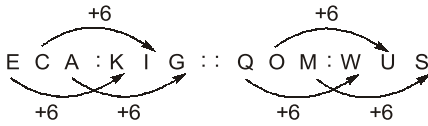
$$\therefore 100^2 - 1 = 9999$$

6. (a) Relation between 56 & 29 is one added to half of the first number

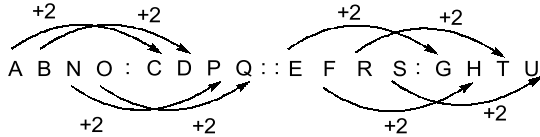
$$\Rightarrow \frac{56}{2} + 1 = 29$$

$$\therefore \frac{38}{2} + 1 = 20$$

7. (a) Add 6 is all place values and write the corresponding alphabet.



8. (d) Add 2 to every place value and write the corresponding alphabet



9. (d) Sum of all digits is every option is 22 except is (d)

$$589 = 5 + 8 + 9 = 22$$

$$886 = 8 + 8 + 6 = 22$$

$$697 = 6 + 9 + 7 = 22$$

$$398 = 3 + 9 + 8 = 20$$

10. (a) All are perfect squares except options (a).

11. (c) The pairs are square of first number except option (c)

12. (b) Jacket, Shirt & Trousers are name of garments (end product) where as cloth is raw material used to make these garments.

14. (b) Leaving are alphabet after the first given alpha set and then writing two consecutive alphabets is the pattern followed.

- K → shipping L → writing next two (M, N)
- D → shipping E → writing next two (Q, R)
- O → shipping P → writing next two (Q,R)

Options (b) does not follow this pattern.

15. (a) Pattern followed is three consecutive alphabets and then back to the first one.

- C → D → E → C
- G → H → I → G
- P → Q → R → P

16. (a) Sequence followed is from bottom to P so, root → stem → leaf → bed → flower

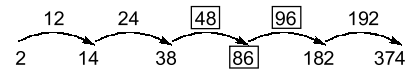
17. (c) Figures with half portion shaded will be in one group. ∴ 1, 4, 7 will be together.

Figures divided in halves will be together ∴ 2, 3, 6 figures with one entering arrow will be together ∴ 5, 8, 9

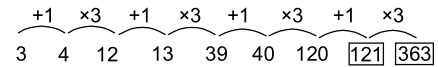
18. (d) Dictionary will follow alphabetical order after first letter 'P'.

So, after 'P' next will the 'Pa' and among the given options 1, 3, 4, 5 have 'Pa'; then moving on to the third alphabet, Pac will be first ∴ Package will come first followed by palace, passport, patience, Picture in order.

19. (c) Difference between 2 consecutive numbers is getting doubled of the previous number.



20. (a) Series follows +1 and × 3 pattern alternatively



22. (b) Pattern followed is strip two alphabets and write the third

- R → skip S, T → write U
- U → skip V, W → write X
- X → skip Y, Z → write A
- A → skip B, C → write D
- D → skip E, F → write G.

23. (b) Pattern followed is skipping 3 alphabets and writing the fourth one.

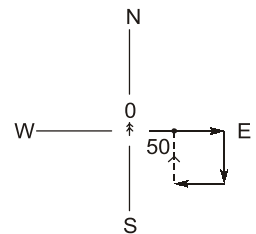
- A → skip 3 alphabets → write E.
 - A → skip 3 alphabets → write E.
 - A → skip 3 alphabets → write E.
- Similarly,
- I → skip 3 alphabets → write M
 - N → skip 3 alphabets → write R
 - S → skip 3 alphabets → write W

24. (b) Starting from the right end, the last gap has to be occupied by 'p' so that series gets completed 'pqrr' by observation.

- ∴ Pqrr is the repeat unit in the given letter series
- ∴ Pq r r p q r r p q r r.

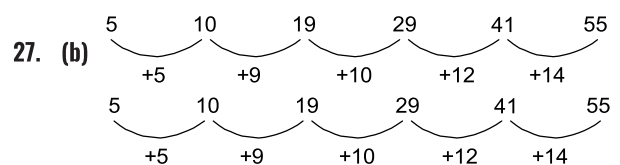
25. (b) Sun rises from East.

So Anoop walks 50 m towards east and taking right walks 40 m, again takes right walks 20 m, again taking right travels 40 m reliving on the starting time. Therefore distance left to reach his original position is 30 m.



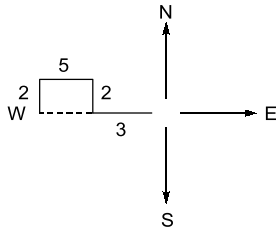
26. (b) From first statement;

B is left to E left right to A. We get, A,BE
D is sitting right to c left to A. CDA.
∴ order is CDABE
Hence 'A' is sitting in the middle.



So, 55 is the wrong term.

28. (c) While walking towards west and following directions of questions, Nilesh will land in west.



29. (b)
$$\text{Average} = \frac{\text{Sum}}{\text{No. of observation}}$$

$$40 = \frac{\text{sum}}{8}$$

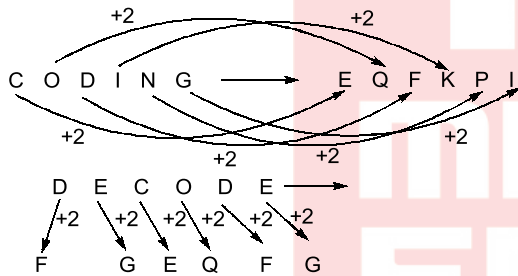
$$\text{sum} = 320$$

According to question.

$$\begin{aligned} \text{New Sum} &= 320 - 55 + 39 \\ &= 304 \end{aligned}$$

$$\therefore \text{New average} = \frac{304}{8} = 38$$

30. (b) Every alphabet is coded as (+2) in the alphabetic list



31. (a) On observing the question

$$\begin{aligned} T &\rightarrow 8 & W &\rightarrow 6 & E &\rightarrow 3 & N &\rightarrow 9 \\ Y &\rightarrow 5 & L &\rightarrow 2 & V &\rightarrow 0 & N &\rightarrow 9 \end{aligned}$$

\therefore TWELVE can be written as 8 6 3 2 0 3.

32. (b) According to question.

Rashmi is younger to Sunita but older to Radha. Radha is elder to Geeta.

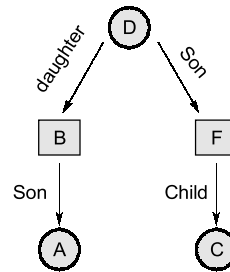
$$\Rightarrow \text{Sunita} > \text{Rashmi} > \text{Radha} > \text{Geeta}$$

Shyam is elder to Radha but younger to Rashmi.

$$\Rightarrow \text{Sunita} > \text{Rashmi} > \text{Shyam} > \text{Geeta.}$$

\therefore Youngest among all is Geeta.

33. (a)



\therefore A is F's Nephew.

34. (c) Let the present age of Mr. Rao be R years then age of his son is 5 years.

According to the given question

$$R = 12S \quad \dots(i)$$

After 8 years, $(R + 8) = 4(S + 8)$

Substituting from equation (i)

$$S = 3 \text{ years}$$

$$\therefore R = 36 \text{ years}$$

36. (d) There is no 'T' in word AWARENESS so only option is (d) is NEST which cannot be formed from the given word.

37. (d) Every option has some letters which are not three in refrigerator except option (d). Which has all alphabets of REFRIGERATOR.

41. (b) $7 \times 4 = 28$ $5 \times 8 = 40$ $9 \times 3 = 27$
 $12 \div 3 = 4$ $11 \div 1 = 11$ $6 \div 2 = 3$
 $28 + 4 = 32$ $40 + 11 = 51$ $27 + 3 = 30$

42. (a) Multiplying elements of first three rows of respective columns will give the fourth row

$$7 \times 9 \times 3 = 189$$

$$8 \times 4 \times 9 = 288$$

$$9 \times 5 \times \boxed{2} = 90$$

45. (b) $1 + 3 + 3 = 7$, and add a zero = 70

$$4 + 2 + 6 = 12, \text{ and add a zero} = 120$$

$$5 + 6 + 5 = 16, \text{ and add a zero} = 160$$

47. (d) Flowers is a superset, lotus and Roses and subsets of category flowers.

48. (c) Mirror images are always laterally inverted.



1. In the following, four roll numbers or centre codes are given. Three share a common pattern or belong to one group, but one is different. Select the odd one out.

301441, 301551, 321327, 301660

- (a) 301441 (b) 301551
(c) 321327 (d) 301660

2. In the following, four roll numbers or centre codes are given. Three share a common pattern or belong to one group, but one is different. Select the odd one out.

680422, 681901, 681502, 540345

- (a) 680422 (b) 681901
(c) 681502 (d) 540345

3. In the following, four roll numbers or centre codes are given. Three share a common pattern or belong to one group, but one is different. Select the odd one out.

720626, 720334, 700211, 720997

- (a) 720626 (b) 720334
(c) 700211 (d) 720997

4. Complete the analogy.
J : L :: V : ?

- (a) Z (b) Y
(c) X (d) T

5. Complete the analogy.
LOP : PRT :: VWZ : ?

- (a) ZZD (b) ZAC
(c) BCD (d) BAD

6. Find the missing term in the series:
A, E, I, M, ?

- (a) O (b) P
(c) Q (d) R

7. Find the missing term in the series:
C, G, K, O, ?

- (a) S (b) T
(c) U (d) V

8. Find the missing term in the series:
B2D, D4F, F6H, H8J, ?

- (a) J10L (b) J12L
(c) I10L (d) L10J

9. Find the missing number in the series:

2, 4, 8, 16, ?

- (a) 24 (b) 30
(c) 32 (d) 36

10. Find the missing number in the series:
5, 11, 23, 47, ?

- (a) 90 (b) 95
(c) 92 (d) 93

11. Find the missing number in the series:

4, 11, 25, 53, ?

- (a) 100 (b) 109
(c) 115 (d) 118

12. Complete the analogy.
% : Percentage :: # : ?

- (a) Hash (b) Number
(c) Symbol (d) Telephone

13. Complete the analogy.
36 : 216 :: 18 : ?

- (a) 54 (b) 81
(c) 162 (d) 108

14. Complete the analogy.
1024 : 32 :: 256 : ?

- (a) 8 (b) 16
(c) 24 (d) 32

15. Select the option that does NOT belong to the same category as the others:
16, 36, 54, 64

- (a) 16 (b) 36
(c) 54 (d) 64

16. Select the option that does NOT belong to the same category as the others:

24, 36, 54, 68

- (a) 24 (b) 68
(c) 54 (d) 36

17. Select the option that does NOT belong to the same category as the others:

97, 89, 91, 83

- (a) 97 (b) 89
(c) 91 (d) 83

18. Statement: All vehicles must pass emission tests before their registration is renewed".

Which conclusion follows?

- (a) All old vehicles will be banned automatically

- (b) Fuel prices will be reduced soon
(c) Traffic rules will become stricter for parking
(d) Pollution from vehicles is a concern

19. Statement: "Street lights in residential colonies will be switched to LED bulbs".

Which conclusion follows?

- (a) LED lights are more decorative
(b) Residents dislike the current lights
(c) LED lights use less electricity
(d) Streetlights will be switched off at night

20. Statement: "Due to a major IT outage, bank branches will remain closed for two days."

What is the immediate course of action?

- (a) Inform customers and provide alternate services.
(b) Train staff on handling outages.
(c) Upgrade the entire banking network.
(d) Wait for the power supply to be restored.

21. Select the word that appears last in alphabetical order:

HOOK, HOOKED, HOOKS, HOOP

- (a) HOOK (b) HOOKED
(c) HOOKS (d) HOOP

22. In a dictionary, which comes first:
QUEST, QUERY, QUEUE, QUELL?

- (a) QUEUE (b) QUERY
(c) QUELL (d) QUEST

23. In a dictionary, which comes first?
PREFIX, PREGNANT, PRELUDE, PRECISE

- (a) PRECISE (b) PREGNANT
(c) PRELUDE (d) PREFIX

24. Find the odd one out:

Rose, Lily, Mango, Jasmine

- (a) Rose (b) Lily
(c) Mango (d) Jasmine

25. A shopkeeper buys an article at Rs. 240 and sells it at a profit of 25%.

What is the selling price?

- (a) Rs. 260 (b) Rs. 280
(c) Rs. 300 (d) Rs. 320

26. From the letters C R E T A P U, which valid English word can be made?

- (a) CAPTURE (b) CURPETA
(c) ACCEPTUR (d) CRAPUTE

27. Using all letters of E P M R E L A, which word is correct?

- (a) EMPERAL (b) PREMEAL
(c) PREMALE (d) PREAMLE

28. A company promotes mostly male employees despite an equal number of male and female candidates.

What is the valid inference?

- (a) Company favours males
(b) Female are less qualified
(c) Males work more hours
(d) Promotions based on seniority

29. In an airline, foreign passengers are offered free upgrades more often than domestic passengers in the same booking class. Which inference is valid?

- (a) Domestic seats are cheaper
(b) Foreigners complain less
(c) Foreigners pay more
(d) Upgrade policy favours foreigners

30. Rainwater harvesting in a town increased water storage by 40% without rainfall change.

Which inference is valid?

- (a) Rainfall rose
(b) Water was used less
(c) Collection efficiency increased
(d) Population decreased

31. An employee misses deadlines frequently but meets some targets.

What should a manager infer?

- (a) Employee is careless
(b) Employee has too much work
(c) Employee is dishonest
(d) Employee may need support

32. A company's profit fell 5% despite 15% revenue growth.

Which is the best inference?

- (a) Costs increased significantly
(b) Employees worked less
(c) Customers bought fewer products
(d) Management bonuses increased

33. City pollution levels decreased 5%, but the number of vehicles increased by 8%. Which is the logical judgement?

- (a) Vehicles became more fuel-efficient
(b) People drove less
(c) Pollution data is wrong
(d) Weather reduced pollution

34. If # = addition, \$ = division, @ = subtraction, and % = multiplication, what is the value of $\{(96 \# 24) \$ 6\} @ (12 \% 3)$?

- (a) -16 (b) 18
(c) 20 (d) 14

35. If @ = addition, # = multiplication, \$ = subtraction, and % = division, then find the value of $18 \# 3 \$ 5 @ 12 \% 4$.

- (a) 20 (b) 22
(c) 26 (d) 52

36. If \$ = subtraction, * = multiplication, @ = addition, and % = division, then evaluate $90 \$ 25 * 2 @ 8 \% 2$.

- (a) 68 (b) 44
(c) 134 (d) 74

37. Given that the factory produced 1000 units in the first year, 1100 in the second, and 1200 in the third, what would be the estimated output for the fourth year?

- (a) 1250 (b) 1300
(c) 1350 (d) 1450

38. Profits of a firm were 100000 and increased 8% yearly.

What is the profit at the end of 4 years?

- (a) 134,391 (b) 135,000
(c) 134,000 (d) 136,049

39. An investment of 100000 earns 7% years?

What is the value after 5 years?

- (a) 140,255 (b) 138,000
(c) 140,000 (d) 139,500

40. In a family, X is the brother of Y. Y is the mother of Z.

How is Z related to X?

- (a) Daughter
(b) Father-in-law
(c) Niece/Nephew
(d) Wife

41. Pointing to a girl, Vikas said, "She is the daughter of my wife's brother".

How is the girl related to Vikas?

- (a) Aunt of Vikas
(b) Cousin of Vikas
(c) Niece of Vikas
(d) Sister of Vikas

42. A shopkeeper bought 50 apples for Rs. 500. He sold them at Rs.12 each. What is his profit?

- (a) Rs.100 (b) Rs.120
(c) Rs.80 (d) Rs.150

43. A sum triples itself in 12 years at simple interest.

Find the rate per annum.

- (a) 10.57% (b) 12.82%
(c) 14.53% (d) 16.67%

44. In the following question, two statements are followed by four conclusions. You have to assume the given statements to be true, even if they seem to be at variance with commonly known facts. Read the conclusions carefully and then decide which of the given conclusions logically follows from the statements.

Statements:

- I. Some pens are pencils.
II. All pencils are erasers.

Conclusions:

- A. Some pens are erasers.
B. All erasers are pens.
C. No pen is an eraser.
D. All pens are pencils.
(a) Only A (b) Only B
(c) Only C (d) Only D

45. Statements:

Some stars are planets.

Some planets are habitable.

Which conclusion logically follows?

- (a) Some stars are habitable
(b) All habitable are planets
(c) Some planets are stars
(d) Some habitable are stars

46. Statements:

All smartphones are devices.

Some devices are expensive.

Which conclusion logically follows?

- (a) Some smartphones are expensive
(b) No smartphones is expensive
(c) All devices are smartphones
(d) Some expensive items are devices

47. A shopkeeper buys 300 notebooks at Rs. 25 each. He sells 120 notebooks at a 20% profit, 100 notebooks at a 10% loss, and the remaining at the cost price. What is his overall profit or loss percentage on the entire purchase?

- (a) 4.67% (b) 3.87%
(c) 4.12% (d) 5.27%

48. Select the option that does NOT belong to the same category as the others:

- Oxygen, Nitrogen, Helium, Water
 (a) Oxygen (b) Nitrogen
 (c) Helium (d) Water

49. Select the option that does NOT belong to the same category as the others:

- Typhoid, Malaria, Diabetes, Cholera
 (a) Typhoid (b) Malaria
 (c) Diabetes (d) Cholera

50. Select the option that does NOT belong to the same category as the others:

- Insulin, Thyroxine, Adrenaline, Pepsin
 (a) Insulin (b) Thyroxine
 (c) Adrenaline (d) Pepsin



ANSWERS KEY **SSC-JE SOLVED PAPER 06-12-2025 (EVENING)**

1. (c) 2. (d) 3. (c) 4. (c) 5. (a) 6. (c) 7. (a) 8. (a) 9. (c) 10. (b)
 11. (b) 12. (a) 13. (d) 14. (b) 15. (c) 16. (b) 17. (c) 18. (d) 19. (c) 20. (a)
 21. (d) 22. (a) 23. (a) 24. (c) 25. (c) 26. (a) 27. (b) 28. (a) 29. (d) 30. (c)
 31. (d) 32. (a) 33. (a) 34. (a) 35. (d) 36. (b) 37. (b) 38. (d) 39. (a) 40. (c)
 41. (c) 42. (a) 43. (d) 44. (a) 45. (c) 46. (d) 47. (a) 48. (d) 49. (c) 50. (d)

EXPLANATION **SSC-JE SOLVED PAPER 06-12-2025 (EVENING)**

1. (c) Only 321327, Start with 32.

2. (d) Only 540345, Start with 54.

3. (c) Only 700211, Start with 70.

4. (c) J : L :: V : X
 10 12 22 24
 J → L = +2 letters
 Similarly, V → X = +2 letters

5. (a) L $\xrightarrow{+4}$ P Similarly, V $\xrightarrow{+4}$ Z
 12 16 22 26
 O $\xrightarrow{+3}$ R W $\xrightarrow{+3}$ Z
 15 18 23 26
 P $\xrightarrow{+4}$ T Z $\xrightarrow{+4}$ D
 16 20 26 30

6. (c) A, E, I, M, Q
 1 5 9 13 17
 +4 +4 +4 +4

7. (a) C, G, K, O, S
 3 7 11 15 19
 +4 +4 +4 +4

8. (a) B $\xrightarrow{+2}$ D $\xrightarrow{+2}$ F $\xrightarrow{+2}$ H $\xrightarrow{+2}$ J
 2 $\xrightarrow{+2}$ 4 $\xrightarrow{+2}$ 6 $\xrightarrow{+2}$ 8 $\xrightarrow{+2}$ 10
 D $\xrightarrow{+2}$ F $\xrightarrow{+2}$ H $\xrightarrow{+2}$ J $\xrightarrow{+2}$ L

9. (c) $2 \times 2 = 4$
 $4 \times 2 = 8$
 $8 \times 2 = 16$
 $16 \times 2 = 32$

2, 4, 8, 16, 32
 $\times 2$ $\times 2$ $\times 2$ $\times 2$

10. (b) $5 + 6 = 11$
 $11 + 12 = 23$
 $23 + 24 = 47$
 $47 + 48 = 95$

11. (b) $4 + 7 = 11$
 $11 + 14 = 25$
 $25 + 28 = 53$
 $53 + 56 = 109$

12. (a)

Symbol	Name
%	Percentage
#	Hash

13. (d) $36 \times 6 = 216$
 $18 \times 6 = 108$

14. (b) $32 \times 32 = 1024$
 $16 \times 16 = 256$

15. (c) $4^2 = 16$
 $6^2 = 36$
 $8^2 = 64$

54 is not a perfect square

16. (b) $3 \times 8 = 24$
 $3 \times 12 = 36$
 $3 \times 18 = 54$

68 is not divisible by 3.

17. (c) Prime number → 97, 89, 83
 Non-prime/composite number → 91

18. (d) Emission tests are required, indicates Concern about Vehicle pollution.

- 19. (c)** Switching to LED implies energy efficiency.
- 20. (a)** Immediate action during bank closure should be to notify customers and ensure service continuity through alternatives.
- 21. (d)** Alphabetical order
Hook, Hooked, Hooks, Hoop
- 22. (a)** Arrangement According to dictionary
Quest, Query, Queue, Quell
- 23. (a)** Arrangement According to dictionary
Precise, Prefix, Pregnant, Prelude.
- 24. (c)** Flower → Rose, Lily, Jasmine
Fruit → Mango
- 25. (c)** Selling Price = $240 + 240 \times 25/100 = 300$
- 26. (a)** Given letters: C, R, E, T, A, P, U
The valid English word CAPTURE.
- 27. (b)** "PREMEAL" is a valid English word meaning "before a meal" others are incorrect forms.
- 28. (a)** With equal candidates, promoting males indicates bias in favour of males.
- 29. (d)** More frequent upgrades to foreigners directly implies the policy favors them.
- 30. (c)** Since rainfall didn't change, higher storage must be due to improved collection/harvesting efficiency.
- 31. (d)** Mixed performance suggests need for guidance/support, not assumptions like carelessness or dishonesty.
- 32. (a)** Profit fell despite higher revenue means expenses must have increased.
- 33. (a)** Even with more vehicles, pollution decreased means efficiency improvement is the most logical cause.
- 34. (a)** $\{(96 \# 24) \$ 6\} @ (12 \% 3)$
 $= \{(96 + 24) \div 6\} - (12 \times 3)$
 $= \{120 \div 6 - 36\}$
 $= 20 - 36 = -16$
- 35. (d)** Given expression
 $18 \# 3 \$ 5 @ 12 \% 4$
 $= 18 \times 3 - 5 + 12 \div 4$
 $= 54 - 5 + 3 = 52$
- 36. (b)** Given expression
 $90 \$ 25 * 2 @ 8 \% 2$
 $= 90 - 25 \times 2 + 8 \div 2$
 $= 90 - 50 + 4 = 44$
- 37. (b)** $1000 + 100 = 1100$
 $1100 + 100 = 1200$
 $1200 + 100 = 1300$
- 38. (d)** Profit at the end of 4 years
 $100,000 \times (1.08)^4 = 136,049$
- 39. (a)** Value after 5 years = $100,000 \times \left(1 + \frac{7}{100}\right)^5$
 $= 100,000 \times (1.07)^5 = 140,255$
 $= 100,000 \times (1.07)^5 = 140,255$
- 40. (c)** Z is the child of X's sister means Z is niece/nephew of X.
- 41. (c)** The girl is Vikas's niece.
- 42. (a)** Selling Price = $12 \times 50 = \text{Rs. } 600$
 Cost price = Rs. 500
 Profit = $600 - 500 = \text{Rs. } 100$
- 43. (d)** Simple interest = $3P - P = 2P$
 $2P = \frac{P \times R \times 12}{100}$
 $R = \frac{2P \times 100}{P \times 12} = \frac{200}{12}$
 $R = \frac{50}{3} = 16.67\%$
- 44. (a)** Some pens are pencils and all pencils are erasers, so some pens are erasers.
- 45. (c)** Converse of "Some stars are planets."
- 46. (d)** Converse of "Some devices are expensive."
- 47. (a)** Cost price = $25 \times 300 = \text{Rs. } 7500$
 Net profit = $(120 \times 25) \times \frac{20}{100} - \frac{(100 \times 25) \times 10}{100}$
 $= 600 - 250 = 350$
 $\% \text{ Profit} = \frac{350}{7500} \times 100 = 4.67\%$
- 48. (d)** Water is a compound, others are elements.
- 49. (c)** Diabetes is a metabolic disorder. It is typically caused by genetics or lifestyle factors rather than an infection and it cannot be "caught" from someone else.
- 50. (d)** Pepsin is a digestive enzyme. It is secreted in the stomach to break down proteins into smaller peptides during digestion. It acts locally within the digestive tract rather than acting as a systemic messenger.