

SSC-JE

Staff Selection Commission

Junior Engineer

General Intelligence and Reasoning

Civil, Mechanical and Electrical Engineering

Previous Years Solved Papers : 2010-2024

*Also useful for various public sector examinations and
other competitive examinations*



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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

- (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.
- (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.

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.

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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SSC-JE Solved Paper

Exam held on 2010 : CE/ME/EE

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

- ABC : 149 :: ? : 4916**
 (a) BCD (b) BDC
 (c) CDB (d) DIB
- WVRT : MLGJ :: SRNP : ?**
 (a) HGCE (b) IHCF
 (c) JIGE (d) HGCF
- (a) (b) (c) (d)
- 01 : 08 :: ? : 64**
 (a) 09 (b) 16
 (c) 25 (d) 36
- DEFIANT : OBEDIENT :: DEPRAVIT : ?**
 (a) GOODNESS (b) SADNESS
 (c) SERIOUSNESS (d) OBEDIENT
- 5 : 23 :: 9 : ?**
 (a) 39 (b) 43
 (c) 47 (d) 51
- MN eg : GE nm :: ? : AL sq**
 (a) qsLA (b) QS la
 (c) QsIA (d) qSLA
- COW : HERD :: FISH : ?**
 (a) GROUP (b) CROWD
 (c) COLLEGE (d) SCHOOL
- $\frac{PO}{31} : \frac{NM}{27} :: \frac{IH}{17} : ?$
 (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.

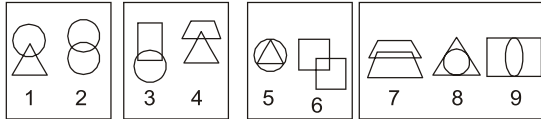
- (a) Pancreas (b) Ductless glands
 (c) Duct glands (d) Parathyroid

- (a) (b) (c) (d)

- (a) 7431 (b) 8354
 (c) 5410 (d) 6421
- (a) (72, 81) (b) (48, 56)
 (c) (42, 49) (d) (36, 42)
- (a) TGRI (b) WDUF
 (c) NHLI (d) ZAXC
- (a) ooo pqT (b) cccdGH
 (c) iiiJMN (d) sssTWX
- (a) Radio (b) Telephone
 (c) Television (d) Wireless
- (a) F (b) A
 (c) N (d) X
- (a) RISK (b) VIGOUR
 (c) SLUGGISH (d) ENERGETIC
- 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)
- 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)

1, 2, 3
4, 5, 6
7, 8, 9

 (b)

2, 4, 7
1, 3, 5
6, 8, 9
- (c)

2, 6, 7
5, 8, 9
1, 3, 4

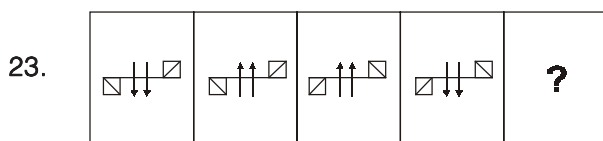
 (d)

1, 3, 5
2, 4, 6
7, 8, 9

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.



- (a)

--

 (b)

--
- (c)

--

 (d)

--

24. 5, 6, 7, 8, 10, 11, 14, ?, 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, ?
 (a) 2089 (b) 1084
 (c) 207 (d) 297

27. ACZXP, BDYYQ, CEXZR, DFWAS, ?, FHUCU
 (a) FGVBT (b) EGUPT
 (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

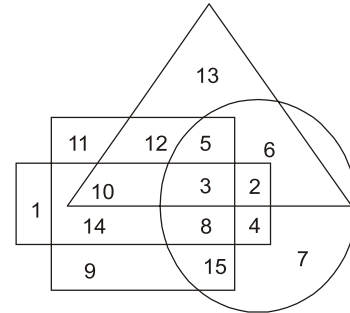
34. (i) Krishna is the brother of Rama.
 (ii) Mala is the sister of Krishna.
 (iii) Pallu is the brother of Naku.
 (iv) Naku is the daughter of Rama.
 Then who is the uncle of Pallu?
 (a) Krishna (b) Rama
 (c) naku (d) Mala
35. In a queue, Rita is 10th from front and Sheetal is 25th from behind, Tara 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) ÷ and × (b) + and ×
 (c) + and ÷ (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.

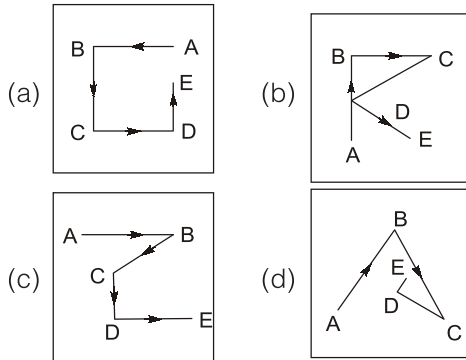
39. 937 (28) 216
 521 (?) 418
 (a) 12 (b) 17
 (c) 21 (d) 32
40. 9 8 3
 7 9 4
 3 2 ?
 189 144 96
 (a) 12 (b) 15
 (c) 8 (d) 10
41. Which of the two numbers represent the same category?

- △ = Physicians
- = Rich persons
- = Surgeons
- ◻ = 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?
 (a) (b) (c) (d)
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:

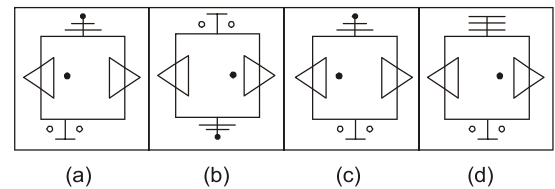
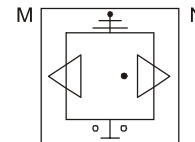
- (a) Some skirts are benches.
- (b) No bench is a table.

Conclusions:

- (i) Some skirts are tables.
- (ii) Some benches are skirts.

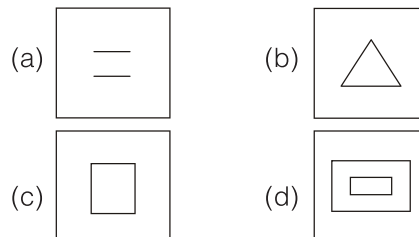
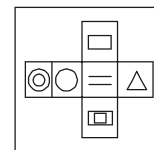
- (iii) All benches are skirts.
- (iv) Some tables are skirts.
- (a) Only (i) follows
- (b) Only (ii) follows
- (c) Only (ii) and (iv) follows
- (d) None of the conclusions follows

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)



Answer 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)



Explanations

1. (a)

ABC : 149

$$A = 1 = 1^2$$

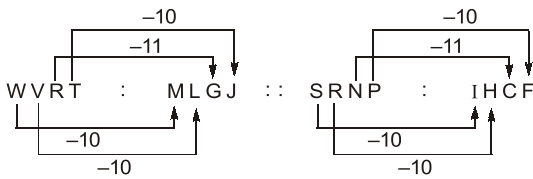
$$B = 4 = 2^2$$

$$C = 9 = 3^2;$$

$$\therefore D = 16 = 4^2$$

$$\therefore 4916 = BCD$$

2. (b)



4. (a)

$$01 : 08 :: 09 : 64$$

$$1^2 2^3 \quad 3^2 4^3$$

5. (a)

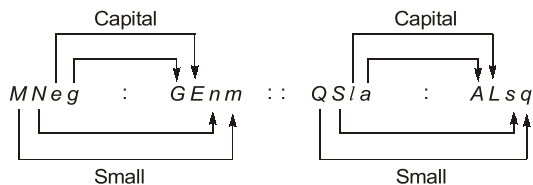
DEFIANT : OBEDIENT
DEPRAVIT : GOODNESS

6. (a)

$$5 : 5 \times 4 + 3 :: 9 : 9 \times 4 + 3$$

$$5 : 23 :: 9 : 39$$

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)

$$(72, 81) \neq (9 \times 6, 9 \times 7)$$

$$(48, 56) \rightarrow (8 \times 6, 8 \times 7)$$

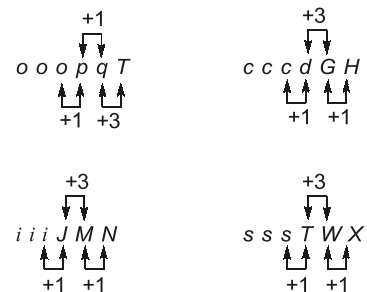
$$(42, 49) \rightarrow (7 \times 6, 7 \times 7)$$

$$(36, 42) \rightarrow (6 \times 6, 6 \times 7)$$

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)



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)

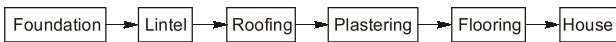
$$(3, 9, 27) \Rightarrow (3, 3^2, 3^3)$$

$$(5, 25, 125) \Rightarrow (5, 5^2, 5^3)$$

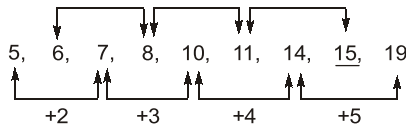
21. (c)

2, 6, 7 → Similar figure with only a part overlapping
 5, 8, 9 → different figure with one fully overlapping the other
 1, 3, 4 → different figure with only a part overlapping.

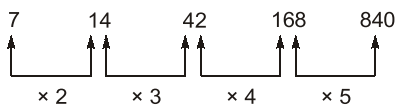
22. (a)



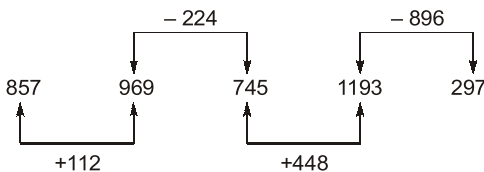
24. (a)



25. (c)

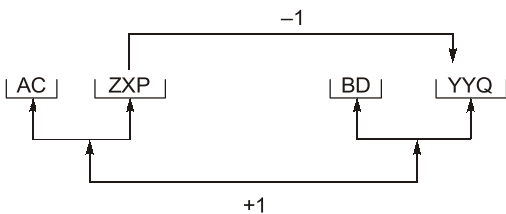


26. (d)

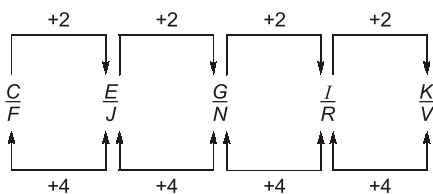


27. (d)

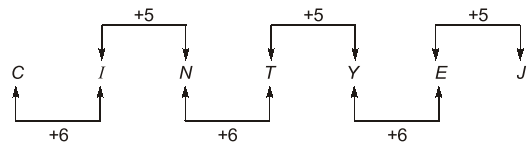
The sequence is:



28. (a)



29. (c)



30. (b)

Given,
 Sangeetha's age = 10
 ∴ Pooja's age = 3 × Sangeetha's age
 = 3 × 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)

$$8 - (5 \times 3) = 25 \text{ before}$$

$$5 \times (8 - 3) = 25 \text{ correct}$$

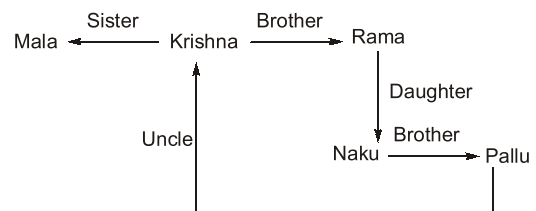
32. (c)

The letter 'H' from SCHOOL is not present in CONGRATULATIONS.

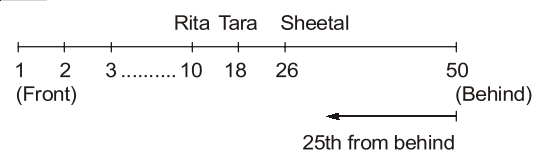
33. (a)

POWER ⇒ P = Z - 10; O = Z - 11; W = Z - 3;
 E = A + 4; R = Z - 8
 KLDVJ ⇒ K = A + 10; D = A + 3; V = Z - 4;
 1 = A + 8
 Similarly,
 FAITH ⇒ F = A + 5; A = A + 0; J = A + 8;
 T = Z - 6; H = A + 7
 UZRGs ⇒ U = Z - 5; Z = Z - 0; R = Z - 8;
 G = A + 6; S = Z - 7

34. (a)



35. (a)



Note: 25th from behind = 26th from front

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

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)

$$8514 = \text{BEAD} \Rightarrow B = 8, \\ E = 5, A = 1, D = 4 \\ 3165 = \text{LATE} \Rightarrow L = 3, A = 1, \\ T = 6, E = 5$$

$$\therefore \text{TABLE} = 61835$$

38. (d)

The repeated sequence is *b a b d*.

39. (c)

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

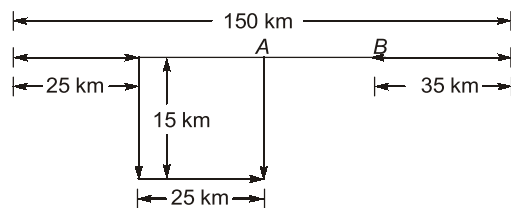
40. (c)

$$9 \times 7 \times 3 = 189 \\ 8 \times 9 \times 2 = 144 \\ \therefore 3 \times 4 \times 8 = 96$$

41. (b)

9 and 11 are surgeons only and do not fall into any other category.

42. (c)

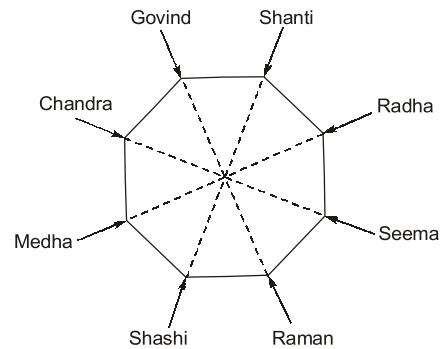


$$\therefore \text{Distance between two bus} = 150 - 35 - 25 - 25 = 65 \text{ km}$$

43. (b)

All surgeons are doctors and some doctors are Indians.

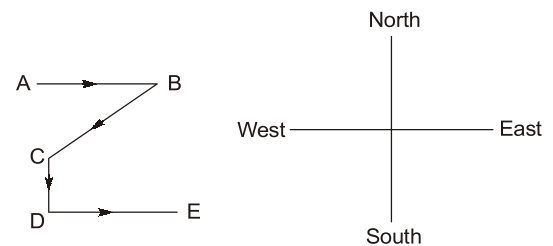
44. (d)



45. (d)

The meaningful word is SUGARCANE.

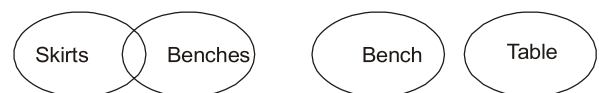
46. (c)



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.



2

SSC-JE Solved Paper

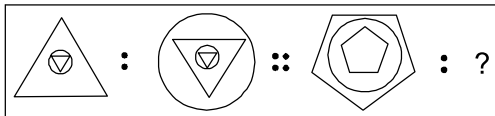
Exam held on 2011 : CE/ME/EE

Directions for Questions (1 to 8):

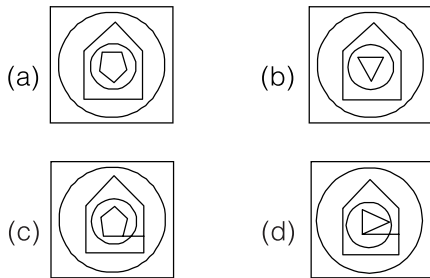
Select the related letters/word/number/ figure from the given alternatives.

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 : ?**

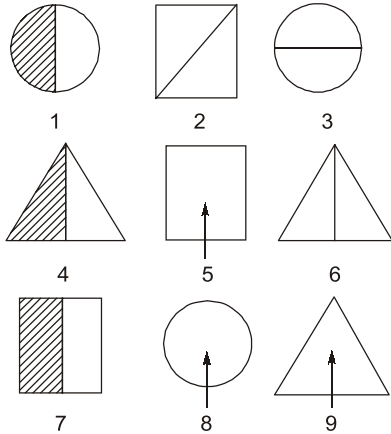
(a) IVKS (b) GITV
 (c) JWCY (d) GHTU

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.

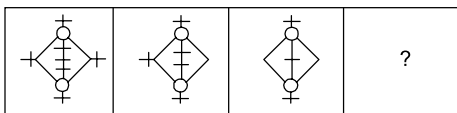
19. 2, 14, 38, ?, 182, 374

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

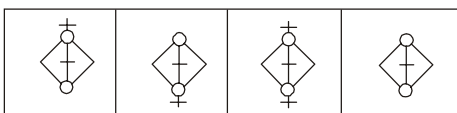
20. 3, 4, 12, 13, 39, 40, 120, ?, ?

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

21. Question figures:



Answer figures:



- (a) (b)
- (c) (d)

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) rprp
- (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 20m, 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

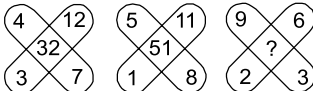
31. If in a certain code TWENTY" is written as 863985, 'ELEVEN' is written as 323039, how is 'TWELVE' written in that code?
 (a) 863203 (b) 863584
 (c) 863903 (d) 863063
32. Rashmi is younger to Sunita but older to Radha. Radha is elder to Geeta. Shyam is elder to Radha but younger to Rashmi. Who is 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
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, LSB Marg
 Vikroli West, Mumbai - 400083
 (d) Rama Mohan SB.
 Raj Plaza, LBS Marg
 Vikroli West, Mumbai - 400083

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.

Directions for Questions (41 and 42):

Select the missing number from the given responses.

41. 
- (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?

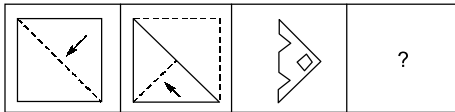
101012	221718	303051	221104	421015
310032	101113	221018	230221	221054
308015	308012	221054	101012	221054
111118	221054	210512	221054	101114
210512	182114	128107	183115	610014

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

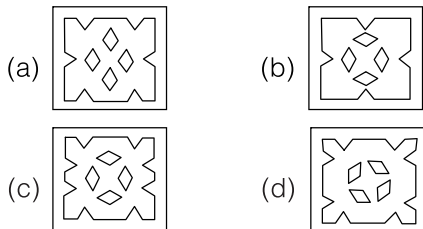
45. Some equations are solved on the basis of a certain system. On the same basis find out the correct answer for the unsolved equation. If $133 = 70$, $426 = 120$, then $565 = ?$

- (a) 120 (b) 160
(c) 26 (d) 135

46. Question figure:

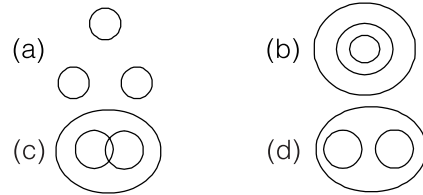


Answer figures:

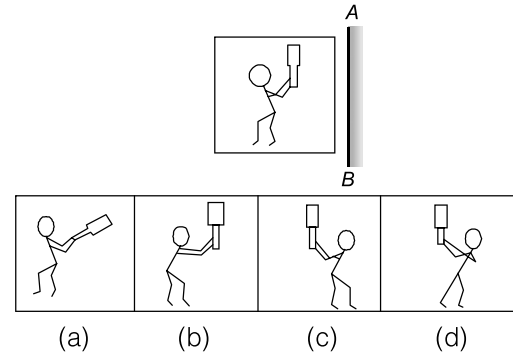


47. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

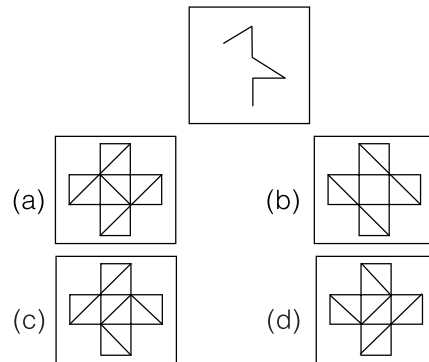
Which of the given diagrams correctly represents the relationship among: Flowers, Lotuses and Roses?



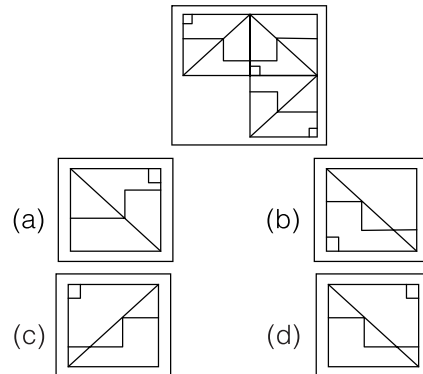
48. If a mirror is placed on the line AB, then which of the answer figures is the correct image of the given question figure?



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?



Answer Key **SSC-JE Solved Paper-2011**

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)

Explanations**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)

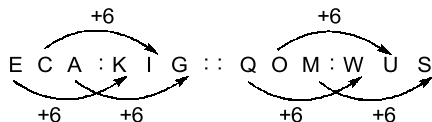
Relation between 56 & 29 is one added to half
 of the first number

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

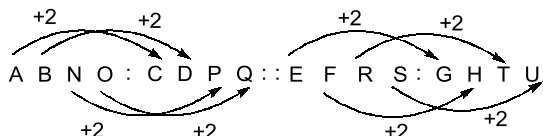
$$\therefore \frac{38}{2} + 1 = 20$$

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.

$C \rightarrow D \rightarrow E \rightarrow C$
 $G \rightarrow H \rightarrow I \rightarrow G$
 $P \rightarrow Q \rightarrow R \rightarrow P$

16. (a)

Sequence followed is from bottom to P so,
 root → stem → leaf → bed → flower

17. (c)

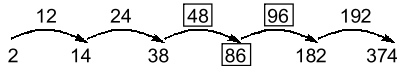
Figures with half portion shaded will be in one group.
 \therefore 1, 4, 7 will be together.
 Figures divided in halves will be together
 \therefore 2, 3, 6 figures with one entering arrow will be together
 \therefore 5, 8, 9

18. (d)

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

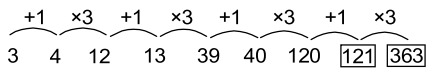
19. (c)

Difference between 2 consecutive numbers is getting doubled of the previous number.



20. (a)

Series follows +1 and $\times 3$ pattern alternatively



22. (b)

Pattern followed is strip two alphabets and write the third
 R \rightarrow skip S, T \rightarrow write U
 U \rightarrow skip V, W \rightarrow write X
 X \rightarrow skip Y, Z \rightarrow write A
 A \rightarrow skip B, C \rightarrow write D
 D \rightarrow skip E, F \rightarrow write G.

23. (b)

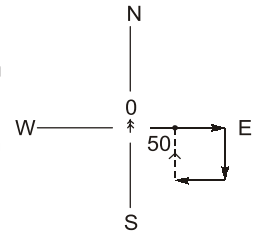
Pattern followed is skipping 3 alphabets and writing the fourth one.
 A \rightarrow skip 3 alphabets \rightarrow write E.
 A \rightarrow skip 3 alphabets \rightarrow write E.
 A \rightarrow skip 3 alphabets \rightarrow write E.
 Similarly,
 I \rightarrow skip 3 alphabets \rightarrow write M
 N \rightarrow skip 3 alphabets \rightarrow write R
 S \rightarrow skip 3 alphabets \rightarrow 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.
 \therefore Pqrr is the repeat unit in the given letter series
 \therefore Pq r r p q r r p q r r.

25. (b)

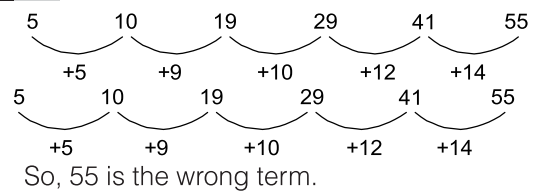
Sum rises from East.
 So Anoop walks 50 m towards east and taking right walks 40 m, again takes right walks 20 m, again taking right travels 40 m reliving on the starting time. Therefore distance left to reach his original position is 30 m.



26. (b)

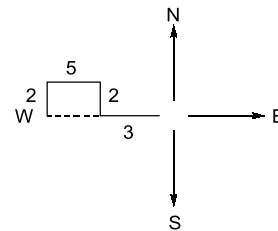
From first statement;
 B is left to E left right to A. We get, A.BE
 D is sitting right to c left to A. CDA.
 \therefore order is CDABE
 Hence 'A' is sitting in the middle.

27. (b)



28. (c)

While walking towards west and following directions of questions, Nilesh will land in west.



29. (b)

$$\text{Average} = \frac{\text{Sum}}{\text{No. of observation}}$$

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

$$\text{sum} = 320$$

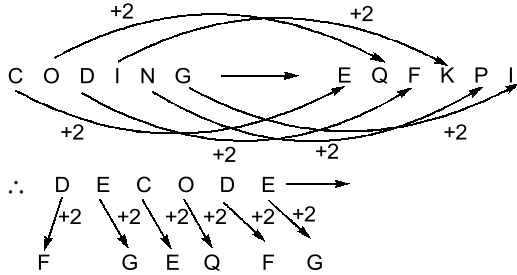
According to question.

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

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

30. (b)

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



31. (a)

On observing the question

$$T \rightarrow 8 \quad W \rightarrow 6 \quad E \rightarrow 3 \quad N \rightarrow 9$$

$$Y \rightarrow 5 \quad L \rightarrow 2 \quad V \rightarrow 0 \quad N \rightarrow 9$$

\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.

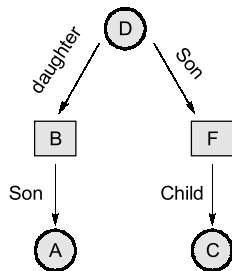
\Rightarrow Sunita > Rashmi > Radha > Geeta

Shyam is elder to Radha but younger to Rashmi.

\Rightarrow Sunita > Rashmi > Shyam > 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' is word AWARENESS so only option is (d) is NEST which cannot the 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)

$$7 \times 4 = 28 \quad 5 \times 8 = 40 \quad 9 \times 3 = 27$$

$$12 \div 3 = 4 \quad 11 \div 1 = 11 \quad 6 \div 2 = 3$$

$$28 + 4 = 32 \quad 40 + 11 = 51 \quad 27 + 3 = 30$$

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)

$$1 + 3 + 3 = 7, \text{ and add a zero} = 70$$

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

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

47. (d)

Flowers is a superset, lotus and Roses and subsets of category flowers.

48. (c)

Mirror images are always laterally inverted.