

Practice Set-3

Part—I General Intelligence

Directions—(Q. 1–4) Select the related word /letters/number from the given alternatives.

- ACEG : JLNP :: BDFH : ?
(A) KMPQ (B) BEFI
(C) KMOQ (D) KLOR
- ABJK : EFNO :: CDLM : ?
(A) GHPR (B) GHRS
(C) GHPQ (D) GHSR
- Rashtrapati Bhavan : India, Downing Street : U. K., White House : USA, Kremlin : ?
(A) Russia (B) Germany
(C) Norway (D) Nepal
- 64 : 8 :: 16 : 4 :: ... ? ... : 2.
(A) 4 (B) 5
(C) 6 (D) 3

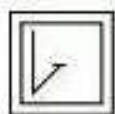
Directions—(Q. 5–7) Find the odd number/ words from the given alternatives.

- (A) 13458 (B) 13791
(C) 13678 (D) 13565
- (A) 49 (B) 9
(C) 19 (D) 29
- (A) Vacate (B) Abandon
(C) Avoid (D) Discard
- Which is the third word when put in an alphabetic order ?
(A) Dialysis (B) Diarchy
(C) Diamond (D) Diagonal

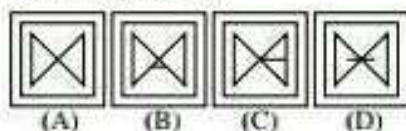
Directions—(Q. 9–11) A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

- 5, 17, 37, 65, ... ? ..., 145
(A) 101 (B) 95
(C) 97 (D) 99
- XYZ ABC UVW ... ? ...
(A) D (B) E
(C) F (D) G
- 4, 8, 12, 16, ... ? ..., 24.
(A) 40 (B) 10
(C) 20 (D) 30
- If RHYTHMIC is written as QGXSGLHB, how MUSIC can be written in that code ?
(A) NVRHB (B) LTRHB
(C) NVTJD (D) LVTHB
- 120% of 5100 ?
(A) 4,000 (B) 6,120
(C) 8,000 (D) 10,000
- From the given alternative words, select the word which cannot be formed using the letters of the given word.
‘MINERVA’
(A) NINE (B) VEIN
(C) MINE (D) RAIN
- Pointing to a woman, Malar said, “Her only sister is the mother of my daughter’s mother”. How is the woman related to Malar ?
(A) Grand mother (B) Mother-in-law
(C) Sister (D) Aunt
- If $52 + 26 = 30$ and $80 + 24 = 28$, then $27 + 54 = ?$
(A) 36 (B) 81
(C) 48 (D) 38
- From the given answer figures, select the one in which the question figure is hidden/ embedded.

Question figure

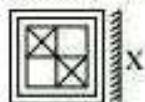


Answer figures

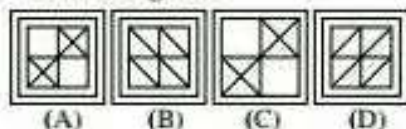


18. If a mirror is placed on the line X then which of the answer figures is the right image of the given figure ?

Question figure

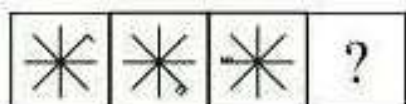


Answer figures

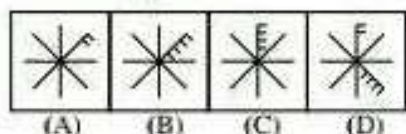


19. Find the missing figure of the series from the given alternatives.

Question figures

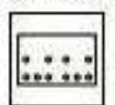


Answer figures

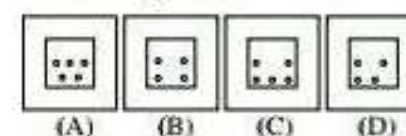


20. Identify the answer figure which yields the punched pattern in the question figure, when the square paper is folded once.

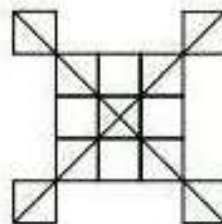
Question figure



Answer figures



21. Find out the number of triangles in the given figure.

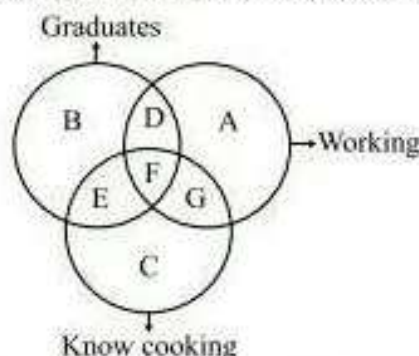


- (A) 32 (B) 20
(C) 24 (D) 28
22. Letters given in the first line have codes as in the second line.

V	D	A	S	G	K	I	H	X	O
5	1	3	9	0	8	2	4	7	6

How will the letters IVSHOD be coded ?

- (A) 258416 (B) 259641
(C) 254961 (D) 259461
23. Three circles representing GRADUATES, WORKING and KNOW COOKING are intersecting one another. The intersection are marked A, B, C, D, E, F and G. Which part represents GRADUATES KNOWING COOKING and are not WORKING ?



- (A) E (B) D
(C) G (D) F
24. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 1 to 4 and that of Matrix II are numbered from 5 to 8. A letter from these matrices can be represented first by its row and next by its column, e.g., 'O' can be represented by 13, 21, etc., and 'E' can be represented by 65, 76 etc. Similarly, you have to identify the set for the word 'TRAMPLE'.

Matrix I

	1	2	3	4
1	L	A	O	R
2	O	R	L	A
3	R	L	A	O
4	A	O	R	L

Matrix II

	5	6	7	8
5	M	T	P	E
6	E	M	T	P
7	P	E	M	T
8	T	P	E	M

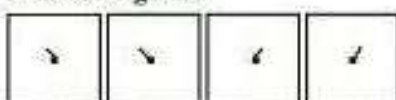
- (A) 85, 31, 41, 56, 68, 32, 76
 (B) 56, 14, 12, 66, 68, 23, 78
 (C) 67, 22, 24, 55, 86, 33, 76
 (D) 78, 22, 12, 55, 68, 32, 58

25. Which answer figure will complete the pattern in the question figure ?

Question figure



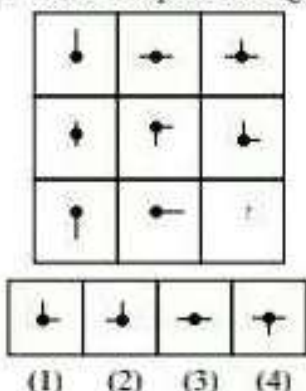
Answer figures



(A) (B) (C) (D)

Directions—(Q. 26–28) Select the one which is different from the other three.

26. (A) Week (B) Month
 (C) Session (D) Fortnight
 27. (A) 97 (B) 61
 (C) 13 (D) 117
 28. (A) Geography (B) Chemistry
 (C) Physics (D) Botany
 29. If $a + b > c + d$ and $b + c > a + d$, then it is definite that—
 (A) $c > d$ (B) $b > d$
 (C) $a > d$ (D) $b > c$
 30. Select a suitable figure from the four alternatives that would complete the figure matrix—



(1) (2) (3) (4)

- (A) 3 (B) 2
 (C) 1 (D) 4

31. If \times stands for addition, $+$ stands for subtraction, \div stands for multiplication and $-$ stands for division, then

$20 \times 8 \div 8 - 4 + 2$ is equal to—

- (A) 24 (B) 25
 (C) 80 (D) 5

32. If ' $-$ ' stands for ' \times ', ' \times ' stands for ' $+$ ', ' $+$ ' stands for ' \div ' and ' \div ' stands for ' $-$ ', then what the value of $9 \div 18 \times 15 + 3 - 6 \times 12$?

- (A) 33 (B) 30
 (C) 24 (D) 42

33. Introducing a man, a woman said that he is the only son of my mother's mother. How is women related to the man ?

- (A) Niece (B) Cousin
 (C) Grandmother (D) Aunt

34. X introduces Y saying, "He is the husband of the granddaughter of the father of my father". How is Y related X ?

- (A) Brother-in-law (B) Son
 (C) Brother (D) Nephew

35. Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl ?

- (A) Uncle (B) Nephew
 (C) Brother (D) Son-in-law

36. If in a certain language CARROM is coded as BZQQNL, which word will be coded as HOUSE ?

- (A) INVRF (B) GNTRD
 (C) IPVTF (D) GPTID

37. In a certain code, GIGANTIC is written as GIGTANCI. How MIRACLES is written in the same code ?

- (A) MIRSELCA (B) MIRCACSE
 (C) MIRCACES (D) MIRCLESA

38. In a certain language, QUEUE is written as Q22 and CHURCH is written as IURI. How BANANA is written in the same language ?

- (A) B545S (B) B5353S
(C) B5A5A (D) B55

Directions—(Q. 39–40) In the following questions, you are given addresses. Please choose the address options that does not match the given question.

39. E-mail: Jahagirpati_modinagar@ mrimmayi.com.

Phone: 9199654867

- (A) E-mail: Jahagirpati_modinagar@ mrimmayi.com.
Phone: 9199654867
(B) E-mail: Jahagirpati_modinagar@ mrimmayi.com.
Phone: 9199654867
(C) E-mail: Jahagirpati_modinagar@ mrimmayi.com
Phone: 9199654867
(D) E-mail: Jahagirpati_modinagar@ mrimmayi.com
Phone: 9199654867

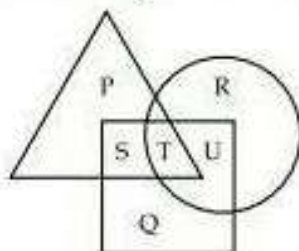
40. Sri Niwas Singh, 521/C, Rly Colony, Fazalganj, Kanpur-208012

- (A) Sri Niwas Singh, 521/C, Rly Colony, Fazalganj, Kanpur-208012
(B) Sri Niwas Singh, 521/C, Rly Colony, Fazalganj, Kanpur-208012
(C) Sri Niwas Singh, 521/C, Rly Colony, Fazalganj, Kanpur-208012
(D) Sri Niwas Singh, 521/C, Rly Colony, Fazalganj, Kanpur-208012

41. Bodinayakkanur, 2nd April, 1986

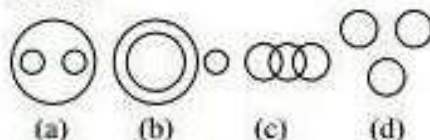
- (A) Bodinayakkanur, 2nd April, 1986
(B) Bodinayakknur, 2nd April, 1986
(C) Bodinayakkanur, 2nd April, 1986
(D) Bodinayakkanur, 2nd April, 1986

42. In the figure given below, square represents doctors, triangle represents ladies and circle represents surgeon. By which letter the ladies who doctor and surgeon both are represented ?



- (A) S (B) U
(C) T (D) S + T

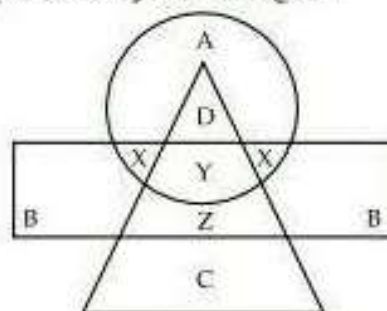
43. In the following question, choose the Venn diagram, which best illustrates the three given classes—



Truck, goods, ship—

- (A) c (B) b
(C) a (D) d

44. In the following diagram, the circle represents College Professors, the triangle stands for Surgical Specialists and Medical Specialist are represented by the rectangle—



Surgical specialists who are also Medical Specialists but not Professors are represented by—

- (A) X (B) Z
(C) B (D) Y

45. Which of the following is the best statement for achieving success in life ?

- (A) The person should be sincere and hard-working
(B) The person should be rich and prosperous
(C) The person should be intelligent
(D) The person should be honest

46. Children like to read comics because—

- (A) It makes children laugh and smile
(B) It is the cheapest means of recreation
(C) It teach moral
(D) It contains amusing pictures

47. Which one is always associated with the justice ?

- (A) Legitimate (B) Magnanimity
(C) Hypocrisy (D) Diminutiveness

48. If the day after tomorrow is Friday: what day was it day before yesterday?

- (A) Sunday (B) Tuesday
(C) Monday (D) Wednesday

49. Ten friends shake hands with one another. Find the total number of hand shakes—

- (A) 10 (B) 45
(C) 20 (D) 9

50. Most children living in slums have poor health. So Bindu and Chhoti who live in slums cannot be healthy. This conclusion is—

- (A) Definitely true
(B) Definitely false
(C) May be true, may be false also
(D) None of the above is correct

Answers with Explanations

1. (C) As,

$$\begin{array}{cccc} A & C & E & G \\ +1 \downarrow & +1 \downarrow & +1 \downarrow & +1 \downarrow \\ B & D & F & H \end{array}$$

Same as,

$$\begin{array}{cccc} J & L & N & P \\ +1 \downarrow & +1 \downarrow & +1 \downarrow & +1 \downarrow \\ K & M & O & Q \end{array}$$

2. (C) As,

$$\begin{array}{cccc} A & B & J & K \\ +4 \downarrow & +4 \downarrow & +4 \downarrow & +4 \downarrow \\ E & F & N & O \end{array}$$

Same as,

$$\begin{array}{cccc} C & D & L & M \\ +4 \downarrow & +4 \downarrow & +4 \downarrow & +4 \downarrow \\ G & H & P & Q \end{array}$$

3. (A) As, the residence of Indian President is in 'Rashtrapati Bhawan', residence of U. K. President is in 'Downing Street', residence of USA President is in 'White House', Same as the residence of Russian President is in 'Kremlin'.

4. (A) As, $\sqrt{64} = 8$

and $\sqrt{16} = 4$

Same as, $\sqrt{4} = 2$

$\therefore ? = 4$

5. (A) $13 \times 7 = 91 \Rightarrow 13791$

$$13 \times 6 = 78 \Rightarrow 13678$$

$$13 \times 5 = 65 \Rightarrow 13565$$

But,

$$13 \times 4 = 52 \Rightarrow 13458 \text{ (False)}$$

6. (C) Sum of the rest digit or numbers is an odd number.

7. (A)

8. (C) Diagonal, Dialysis, **Diamond**, Diarchy.

9. (A)

$$\begin{array}{cccccc} 5 & 17 & 37 & 65 & 101 & 145 \\ +12 & +20 & +28 & +36 & +44 & \\ \hline & +8 & +8 & +8 & +8 & \end{array}$$

10. (A)

$$\begin{array}{cccccc} X & Y & Z & A & B & C & U & V & W & D \\ \hline & \text{Opposite letters} & & \text{Opposite letters} & & \end{array}$$

11. (C)

$$\begin{array}{cccccc} 4 & 8 & 12 & 16 & 20 & 24 \\ +4 & +4 & +4 & +4 & +4 & \end{array}$$

12. (B) As,

$$\begin{array}{cccccc} R & H & Y & T & H & M & I & C \\ -1 \downarrow & -1 \downarrow & -1 \downarrow & -1 \downarrow & -1 \downarrow & -1 \downarrow & -1 \downarrow & -1 \downarrow \\ Q & G & X & S & G & L & H & B \end{array}$$

Same as,

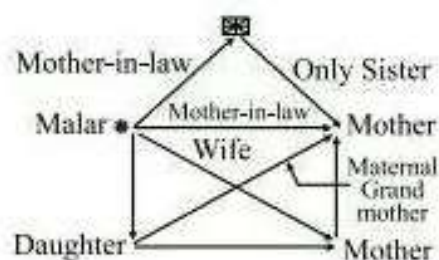
$$\begin{array}{cccccc} M & U & S & I & C \\ -1 \downarrow & -1 \downarrow & -1 \downarrow & -1 \downarrow & -1 \downarrow \\ L & T & R & H & B \end{array}$$

13. (B) 120% of 5100

$$= 5100 \times \frac{120}{100} = 6120$$

14. (A)

15. (B) From relation diagram—



16. (A) As,

$$52 \rightarrow 5 + 2 = 7$$

$$26 \rightarrow 2 + 6 = 8$$

$$(7 + 8) \times 2 = 30$$

$$\text{and } 80 \rightarrow 8 + 0 = 8$$

$$24 \rightarrow 2 + 4 = 6$$

$$(8 + 6) \times 2 = 28$$

Same as,

$$27 \rightarrow 2 + 7 = 9$$

$$54 \rightarrow 5 + 4 = 9$$

$$(9 + 9) \times 2 = 36$$

17. (D) 18. (A)

19. (C) In every next figure, a new small line appears on main design. The whole design is also moving 90° , 135° , 90° , respectively.

20. (C) 21. (A) 22. (D) 23. (A)

24. (D) T \rightarrow 56, 67, 78, 85.R \rightarrow 14, 22, 31, 43.A \rightarrow 12, 24, 33, 41.M \rightarrow 55, 66, 77, 88.P \rightarrow 57, 68, 75, 86.L \rightarrow 11, 23, 32, 44.E \rightarrow 58, 65, 76, 87.

25. (C) 26. (C)

27. (D) Rest are prime numbers.

28. (A) Rest are related with Science subjects while Geography is related with Art subjects.

29. (B) From both the conditions, this sure that $b > d$.

30. (A) This part (—●—) is common in all three parts.

31. (A) $20 \times 8 + 8 - 4 + 2$

$$\Rightarrow 20 + 8 - 8 + 4 \times 2$$

$$= 20 + 8 - 2 \times 2$$

$$= 28 - 4$$

$$= 24$$

32. (A) $9 + 18 \times 15 + 3 - 6 \times 12$

$$\Rightarrow 9 - 18 + 15 + 3 \times 6 + 12$$

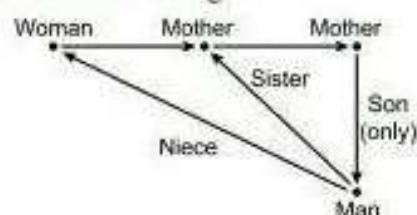
$$= 9 - 18 + 5 \times 6 + 12$$

$$= 9 - 18 + 30 + 12$$

$$= 51 - 18$$

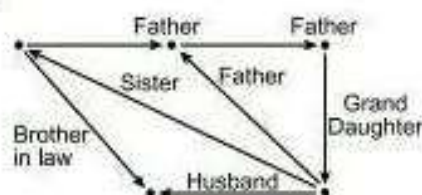
$$= 33$$

33. (A) From related diagram



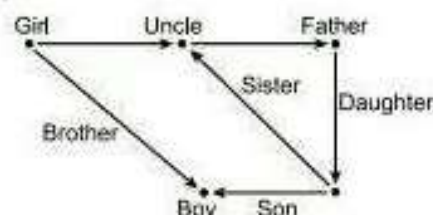
Hence, that woman is man's niece.

34. (A)



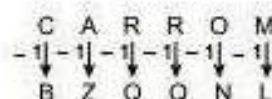
Hence, Y is X's brother-in-law.

35. (C)

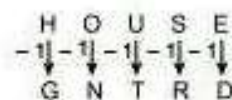


Hence, boy is brother of that girl.

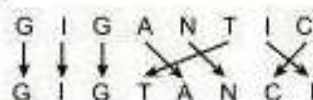
36. (B) As,



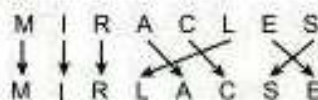
Same as,



37. (B) As,



Same as,



38. (D) As,

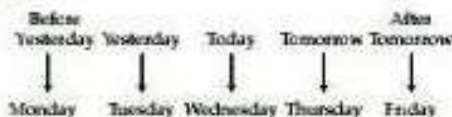
QUEUE \rightarrow Q 22and CHURCH \rightarrow IURI

Same as,

BANANA \rightarrow B 55

39. (C) 40. (A) 41. (B) 42. (C) 43. (C)

44. (B) 45. (A) 46. (D) 47. (A)
48. (C)



49. (B) Required number of total hand shakes
 $= 9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1$
 $= 45$
 50. (C)

Part—II English Language

Directions—(Q. 1–3) Choose the correct Passive Voice of the sentence given in the question.

- Is the noise not disturbing the old man ?
 (A) Is the old man not being disturbed by the noise ?
 (B) Whether the old man is not being disturbed by the noise ?
 (C) Do the old man not being disturbed by the noise ?
 (D) Let the old man not be disturbed by the noise
- Could they not have helped the needy ?
 (A) Why can the needy be not helped by them ?
 (B) Could the needy not have been helped by them ?
 (C) Could the needy have not been helped by them ?
 (D) Why could the needy not be helped by them ?
- Ought we to make any false claims ?
 (A) Any false claims ought to be made by us
 (B) Ought any false claims to be made by us ?
 (C) Should any false claims to be made by us ?
 (D) Could any false claims to be made by us ?

Directions—(Q. 4 and 5) Change the following sentences into Reported Speech.

4. I said, "will you stop that noise ?" "No said the boy".

- (A) I asked the boy if he would stop that noise and he replied that he would not (stop that noise)
 (B) I told the boy if he would stop that noise and he said no
 (C) I said to the boy if he will stop that noise and he said that he would not
 (D) I asked the boy whether he would stop this noise and he replied in negative

5. She said, "how clever I am !" —
 (A) She told that she was very clever
 (B) She exclaimed that she was very clever
 (C) She applauded herself by saying that she was very clever
 (D) She said that how clever was she ?
6. Complete the phrase : 'Burning the candle at both'
 (A) sides (B) ends
 (C) tips (D) flames
7. Choose the word pair that has the relationship that is most similar to that of the given pair—
 vexation : disappointment
 (A) peace : calm (B) felicity : fear
 (C) brave : coward (D) kind : sympathy
8. The phrase 'a close call' means—
 (A) to be happily married
 (B) to be hardhearted
 (C) to live nearby
 (D) to have a narrow escape
9. Choose the correct option for the sentence :
 'Many conjuring tricks depend upon optical.....'
 (A) delusions (B) allusions
 (C) illusions (D) resolution

Directions—(Q. 10 and 11) In the following sentences one or two words are **missing**. Pick the choice which fits in best with the sentence.

10. Some people respond to a threat of rejection by becoming, while others and become again like little dependent children.
 (A) Concise, objectify
 (B) Militant, regress
 (C) Impulsive, diminish
 (D) Amiable, procrastinate

11. While the goal is to meet the specific learning needs of each child, the long range aim is to develop his ability to assume the for his own learning.

(A) Real, Initiative
(B) Supposed, requirements
(C) Immediate, responsibility
(D) Apparent, desire

Directions—(Q. 12 and 13) In the following questions, four parts of a sentence are given a choices (A), (B), (C) and (D) and are in sequence. Select the part which is not acceptable in standard written English.

12. (A) In no circumstances
(B) Will the principal
(C) Permit students
(D) To be absent

13. (A) The professor
(B) Emphasised on
(C) The point
(D) Again and again

Directions—(Q. 14 and 15) Each of these questions consists of a word given in capital letters followed by four words marked (A), (B), (C) and (D). Choose the word that is most nearly similar in meaning to the word given in capital letters.

14. SOPORIFIC
(A) Impressive (B) Soothing
(C) Merry (D) Lethargic

15. SLOTHFUL
(A) Fat (B) Lazy
(C) Stubborn (D) Ignorant

Directions—(Q. 16 and 17) In each of these questions a word is given in capital letters followed by four words. Choose the word that is **most nearly opposite in meaning** to the word given in capital letters.

16. POLEMIC
(A) Friendship (B) Agreement
(C) Amity (D) Cooperation

17. FECUND
(A) Hard (B) Unploughed
(C) Solid (D) Barren

Directions—(Q. 18 and 19) Find the one word substitution in the following questions.

18. The act of violating the sanctity of the church is—

(A) Blasphemy (B) Heresy
(C) Sacrilege (D) Desecration

19. A school boy who cuts classes frequently is a—

(A) Defeatist (B) Sycophant
(C) Truant (D) Martinet

Directions—(Q. 20 and 21) In each of the following questions an idiomatic expression and its four possible meanings are given. Find out the correct meaning and mark your answer.

20. To turn tail
(A) Shifts one position
(B) Run away
(C) In the presence of
(D) Something concealed

21. To fight tooth and nail
(A) To fight a losing battle
(B) To fight purposefully
(C) To fight cowardly
(D) To make every possible effort to win

Directions—(Q. 22 and 23) Look at the underlined part of each sentence. Below each sentence are given three possible substitutions for the underlined part. If one of them (A), (B) or (C) is better than the underlined part, select that part as your response. If none of the substitutions improves the sentence, choose letter (D) as your response. Thus, letter a 'no improvement' response will be signified by the letter (D).

22. Make haste lest you should not be caught in the storm—

(A) That you should not be
(B) You can be
(C) You should be
(D) No improvement

23. Just before the commencement of examination, the invigilator advised us from copying or indulging in any other malpractices—

(A) Against (B) Upon
(C) About (D) No improvement

Directions—(Q. 24-38) Read the passages below and answer the questions by choosing the best option.

Golf Garden is an old locality, with rows of one-two or three storey houses, separated by moss covered boundary walls, along which creepers like ivy and bougainvillea had found refuge. The houses, far from holding any ...(24)... interest. ...(25)... conspicuous by their lack of anything not strictly utilitarian. They were simple brick structures, that often ...(26)... right on the edge of the road, the entrances of which were ...(27)... by wrought iron grills or collapsible gates that ...(28)... open anytime a visitor arrived.

There was always something in-explicably ...(29)... about neighbourhoods of this sort. You ...(30)... the same people everyday, in shops and in markets, at the bus stops or in the hair-cutting ...(31).... In this ...(32)...., it was not much ...(33)... from any other city neighbourhoods, perhaps. But the coziness came from the ...(34)... that these people—the ones you saw everyday, were not going to leave. The neighbourhood ...(35)... remain the same, ...(36)... so, over the years. Such localities in the city were rare these days. Builders and promoters pounced at every opportunity to ...(37)... old houses and erect towering multi-storied buildings in ...(38)... places.

- | | |
|----------------------|-----------------|
| 24. (A) structurally | (B) design |
| (C) architectural | (D) building |
| 25. (A) were | (B) are |
| (C) is | (D) has |
| 26. (A) arise | (B) went |
| (C) rose | (D) climb |
| 27. (A) held | (B) cover |
| (C) decorate | (D) guarded |
| 28. (A) clashed | (B) trickled |
| (C) clanged | (D) ajar |
| 29. (A) distracting | (B) frightening |
| (C) absorbing | (D) comforting |
| 30. (A) meet | (B) will meet |
| (C) have met | (D) met |
| 31. (A) boutique | (B) saloon |
| (C) room | (D) aperture |
| 32. (A) senses | (B) business |
| (C) style | (D) respect |

- | | |
|--------------------|-----------------|
| 33. (A) diffident | (B) different |
| (C) diverse | (D) changed |
| 34. (A) assurance | (B) insurance |
| (C) reassurances | (D) remembrance |
| 35. (A) must | (B) should |
| (C) can | (D) would |
| 36. (A) inevitably | (B) unvaryingly |
| (C) invariably | (D) inaudibly |
| 37. (A) create | (B) end |
| (C) demolish | (D) extinguish |
| 38. (A) there | (B) this |
| (C) it's | (D) their |

Directions—(Q. 39-48) The window of my room overlooks the road. The child had seated herself at my feet near my table and was playing softly, drumming on her knees. I was hard at work on my seventeenth chapter, where Protrap Singh, the hero, had just caught Kanchanlata, the heroine, in his arms, and was about to escape with her by the third story window of the castle, when all of a sudden Mini left her play, and ran to the window, crying, "A Cabuliwallah" a Cabuliwallah ! Sure enough in the street below was a Cabuliwallah, passing slowly along. He wore the loose soiled clothing of his people, with a tall turban; there was a bag on his back and he carried boxes of grapes in his hand.

I can't tell what were my daughter's feelings at the sight of this man, but she began to call him loudly. "Ah !" I thought, "he will come in, and my seventeenth chapter will never be finished !" At which exact moment the Cabuliwallah turned, and looked up at the child. When she saw this, over-come by terror, she fled to her mother's protection, and disappeared. She had a blind belief that inside the bag, which the big man carried, there were perhaps two or three other children like herself. The pedlar meanwhile entered my doorway, and greeted me with a smiling face.

So precarious was the position of my hero and my heroine, that my first impulse was to stop and buy something, since the man had been called. I made some small purchases, and a conversation began about Abdurrah-man, the Russians, the English, and the Frontier Policy.

As he was about to leave, he asked : "And where is the little girl, sir ?" And I, thinking that Mini must get rid of her false fear, had her brought out.

She stood by my chair, and looked at the Cabuliwallah and his bag. He offered her nuts and raisins, but she would not be tempted, and only clung the closer to me, with all her doubts increased.

This was their first meeting.

One morning, however, not many days later, as I was leaving the house, I was startled to find Mini, seated on a bench near the door, laughing and talking, with the great Cabuliwallah at her feet. In all her life it appeared; my small daughter had never found so patient a listener, save her father. And already the corner of her little sari was stuffed with almonds and raisins, the gift of her visitor. "Why did you give her those ?" I said, and taking out an eight-anna bit, I handed it to him. The man accepted the money without demur, and slipped it into his pocket.

Alas, on my return an hour later, I found the unfortunate coin had made twice its own worth of trouble ! For the Cabuliwallah had given it to Mini, and her mother catching sight of the bright round object, had pounced on the child with; "Where did you get that eight-anna bit" ?

"The Cabuliwallah gave it me," said Mini cheerfully.

39. The word 'soiled', in the passage, means—

- (A) Dirty
- (B) Lying on the floor
- (C) Brown colour
- (D) In the soil

40. Find out the word which means "a traveling trades who sells small goods" from the passage—

- (A) Raisins
- (B) Pedlar
- (C) Russians
- (D) Turban

41. The word 'precarious,' in the passage, means—

- (A) Very good
- (B) Romantic
- (C) Uncertain
- (D) Caring

42. Find out the phrase which means "without hesitating" from the passage—

- (A) Without demur

- (B) False fear
- (C) Rid of her false fear
- (D) Would not be tempted

43. Mini was afraid of Cabuliwallah because she thought there were in his bag.

- (A) Guns
- (B) Children
- (C) Monkey
- (D) Snakes

44. The author was to find Mini laughing and talking with the Cabuliwallah.

- (A) Surprised
- (B) Happy
- (C) Sad
- (D) Afraid

45. Why was Mini's mother angry ?

- (A) Because Mini was talking with Cabuliwallah
- (B) Because Mini had eight-anna bit
- (C) Because Mini ate raisins and almonds
- (D) Because Mini did not go to school

46. When did Mini's father come back home ?

- (A) After two days
- (B) After two hours
- (C) In the evening
- (D) After one hour

47. The author was writing the seventeenth chapter where the hero was—

- (A) Cabuliwallah
- (B) Protrap Singh
- (C) Abdurrahman
- (D) A Russian

48. How did the author feel when Mini said 'The Cabuliwallah gave it to me' ?

- (A) Relieved
- (B) Satisfied
- (C) Happy
- (D) Awed

Directions—(Q. 49 and 50) Give one word for the underlined phrase.

49. My bedroom is warm and comfortable—

- (A) Neat
- (B) Untidy
- (C) Cosy
- (D) Beautiful

50. Diana spoke in a quiet voice to her friend—

- (A) Yelled
- (B) Whispered
- (C) Jumped
- (D) Called

Answers with Explanations

- 1. (A) 2. (C) 3. (B) 4. (A) 5. (C)
- 6. (B) 7. (A) 8. (D) 9. (C) 10. (B)
- 11. (D)
- 12. (D) Add from after absent.

13. (B) Delete 'on'. Emphasised is a transitive verb.
 14. (D) Soporific and Lethargic mean making you feel ready to sleep.
 15. (B) Slothful and Lazy mean not active.
 16. (B) Polemic means strongly criticizes a particular idea or opinion and its opposite is Agreement.
 17. (D) Fecund means fertile and its opposite is Barren.
 18. (A) 19. (C) 20. (B) 21. (D) 22. (D)
 23. (A) 24. (C) 25. (A) 26. (C) 27. (D)
 28. (D) 29. (D) 30. (D) 31. (B) 32. (D)
 33. (B) 34. (A) 35. (D) 36. (B) 37. (C)
 38. (D) 39. (A) 40. (B) 41. (C) 42. (D)
 43. (B) 44. (A) 45. (C) 46. (D) 47. (B)
 48. (D) 49. (C) 50. (B)

Part—III Quantitative Aptitude

Directions—(Q. 1–20) What will come in place of the question mark (?) in the following questions ?

- $235.42 - 123.78 = ? + 12.86$
 (A) 98.78 (B) 64.86
 (C) 65.98 (D) 89.74
 (E) None of these
- $\frac{8}{21}$ of 189 = $(?)^2 + 2$
 (A) 6 (B) 36
 (C) $\sqrt{6}$ (D) -36
 (E) 12
- $441.74 - 252.68 - 105.19 = ?$
 (A) 92.45 (B) 96.67
 (C) 85.45 (D) 83.87
 (E) None of these
- $\frac{11}{13} + \frac{6}{26} + \frac{3}{52} = ?$
 (A) 3 (B) 1
 (C) $1\frac{5}{52}$ (D) $3\frac{5}{28}$
 (E) None of these
- $0.8 \times 5.5 + 0.2 \times 15 = ? + 150$
 (A) 160 (B) 180
 (C) 150 (D) 120
 (E) None of these
- $(45.8 \times 6 \times 5) \div 2 - 344 = (?)^3$
 (A) $(7)^3$ (B) $\sqrt{7}$
 (C) 49 (D) 7
 (E) None of these
- 86% of ? + $54.5 = 162$
 (A) 250 (B) 225
 (C) 140 (D) 150
 (E) None of these
- $3435 \div 3 + 51 = ? \times 13$
 (A) 92 (B) 87
 (C) 96 (D) 89
 (E) None of these
- $2\frac{1}{3}$ of $1\frac{1}{4}$ of (?) = 280
 (A) 84 (B) 124
 (C) 96 (D) 108
 (E) None of these
- $1\frac{1}{5} - 1\frac{1}{10} + 1\frac{1}{20} = ?$
 (A) $1\frac{1}{54}$ (B) $1\frac{3}{20}$
 (C) $1\frac{1}{20}$ (D) $1\frac{5}{54}$
 (E) None of these
- $7655 - 8354 + 5434 = ? + (6)^2$
 (A) 4529 (B) 4679
 (C) 4699 (D) 4539
 (E) None of these
- $84 \times 13 \div 2 - 17 = (?)^2$
 (A) $\sqrt{19}$ (B) 361
 (C) $\sqrt{23}$ (D) $(23)^2$
 (E) -23
- 24% of 1250 - 32% of 950 = ?
 (A) -8 (B) -4
 (C) 8 (D) 16
 (E) None of these

14. ?% of $800 + (12)^2 = 504$

- (A) 45 (B) 40
(C) 60 (D) 55
(E) None of these

15. $(2 \times 8 + 4)^4 + (4 \times 4) + 5 = ?$

- (A) 6.5 (B) 4.2
(C) 3.2 (D) 4.5
(E) None of these

16. $\frac{7}{12}$ of 48% of 750 = ?

- (A) 60 (B) 360
(C) 120 (D) 240
(E) None of these

17. $(14 \times 6) - (13 \times 5) + 9 = ? + 4$

- (A) 28 (B) 7
(C) $\sqrt{7}$ (D) 112
(E) None of these

18. $\sqrt{432 + 24 + 123 - 20} = ?$

- (A) $\sqrt{11}$ (B) $(121)^2$
(C) 11 (D) $(11)^2$
(E) None of these

19. $(546 - 434) \div 16 = ? \div (-5)$

- (A) 55 (B) -28
(C) -35 (D) 45
(E) None of these

20. $(19)^2 - (3)^3 - \sqrt{676} + 16 = (?)^2$

- (A) 20 (B) 12
(C) 24 (D) 36
(E) 18

21. What value will be obtained if the cube of 6 is subtracted from the square of 29 ?

- (A) 645 (B) 625
(C) 565 (D) 545
(E) None of these

22. Pradeep got 32 marks in Hindi, 58 marks in Science, 46 marks in Maths, 94 marks in Social Science and 74 marks in English. The maximum marks of each subject are 100. How much over-all percentage of marks did he get ?

- (A) 69.8 (B) 65.2
(C) 62.2 (D) 60.8
(E) None of these

Directions—(Q. 23 to 25) What will come in place of question mark (?) in the following number series ?

23. 28, 37, 64, 109, 172, (?)

- (A) 253 (B) 265
(C) 234 (D) 246
(E) None of these

24. 23, 439, 647, 751, 803, (?)

- (A) 864 (B) 819
(C) 855 (D) 825
(E) None of these

25. 13, 52, 29, 68, 45, (?)

- (A) 97 (B) 74
(C) 84 (D) 76
(E) None of these

26. The area of a square is 24 sq cm less than one-seventh the area of a rectangle. The length of the rectangle is 35 cm and its breadth is 14 cm less than its length. What is the perimeter of the square ?

- (A) 72 cm
(B) 44 cm
(C) 36 cm
(D) Cannot be determined
(E) None of these

27. The sum of five consecutive even numbers is equal to 260. What is the sum of the largest number amongst them and the half the square of the smallest number amongst them ?

- (A) 1644 (B) 1208
(C) 1346 (D) 1288
(E) None of these

28. What is sixty-five per cent of two-fifth of 1800 ?

- (A) 454 (B) 424
(C) 456 (D) 468
(E) None of these

29. The simple interest accrued in 2 years on a principal of ₹ 24000 is one-eighth the principal. What is the rate of simple interest per cent per annum ?

- (A) 5 (B) 4.5
(C) 6.25 (D) 7.25
(E) None of these

30. The ratio between the present ages of Indu and Lakhvir is 5 : 7 respectively. After eight years Indu's age will be 28 years. What was Lakhvir's age 6 years ago ?
 (A) 22 years (B) 28 years
 (C) 34 years (D) 21 years
 (E) None of these
31. Out of the fractions $\frac{3}{11}$, $\frac{2}{9}$, $\frac{5}{13}$, $\frac{7}{17}$ and $\frac{8}{19}$ which is the second highest fraction ?
 (A) $\frac{3}{11}$ (B) $\frac{2}{9}$
 (C) $\frac{5}{13}$ (D) $\frac{7}{17}$
 (E) $\frac{8}{19}$
32. Rajeev consistently runs 325 metre every day except on Sundays when he runs 500 metre. How many kilometre will he run in two weeks (In this question week starts from Monday) ?
 (A) 5.7 km (B) 2.5 km
 (C) 3.2 km (D) 4.9 km
 (E) None of these
33. The body weight of seven boys is recorded as 67 kg, 45 kg, 87 kg, 65 kg, 86 kg, 54 kg and 58 kg. What is the average body weight of all seven boys ?
 (A) 68 kg (B) 66 kg
 (C) 64 kg (D) 62 kg
 (E) None of these
34. What will come in place of both the question marks (?) in the following question ?

$$\frac{(?)^{4/5}}{48} = \frac{12}{(?)^{6/5}}$$

 (A) -48 (B) -12
 (C) 48 (D) 12
 (E) 24
35. Ranjeet purchased an item for ₹ 3,500 and sold it at the loss of 25%. From that amount he purchased another item and sold it at the gain of 20%. What is his overall gain/loss ?
 (A) Loss of ₹ 240
 (B) Gain of ₹ 120
 (C) Loss of ₹ 350
 (D) Neither gain nor loss
 (E) None of these
36. How many bags are required for filling 2286 kg of wheat if each bag is filled with 127 kg of wheat ?
 (A) 23 (B) 18
 (C) 16 (D) 21
 (E) None of these
37. Six men can complete a piece of work in 48 hours. In how many hours will 24 men complete the same piece of work ?
 (A) 18 (B) 16
 (C) 12 (D) 24
 (E) None of these
38. The length of a rectangle is 15 cm which is 6 cm less than the diameter of a circle. What is the area of the circle ?
 (A) 346.5 sq cm (B) 173.25 sq cm
 (C) 156 sq cm (D) 132 sq cm
 (E) None of these
39. Amit's monthly income is two-fifth Rahul's monthly income. Rahul's monthly income is ₹ 42,000. What is Amit's annual income ?
 (A) ₹ 2.012 lakh (B) ₹ 2.016 lakh
 (C) ₹ 3.6016 lakh (D) ₹ 3.8012 lakh
 (E) None of these
40. The average speed of a train is $4\frac{1}{3}$ times the average speed of a tractor. The tractor covers 270 km in 15 hours. How much distance will the train cover in 12 hours ?
 (A) 654 km (B) 896 km
 (C) 564 km (D) 936 km
 (E) None of these
41. If the distance between the points (x, 0) and (-7, 0) be 10 units, then the possible values of x are—
 (A) 3 and -17 (B) -3 and -17
 (C) 3 and 17 (D) -3 and 17
42. If $x + \frac{1}{x} = 6$, then $x^4 + \frac{1}{x^4}$ is—
 (A) 1148 (B) 1150
 (C) 1152 (D) 1154
43. If $x + \frac{a}{x} = b$, the value of

$$\frac{x^2 + bx + a}{bx^2 - x^3}$$

 is—

(A) $\frac{b}{a}$ (B) ab

(C) $a + b$ (D) $\frac{2b}{a}$

44. If
- $x + y + z = 13$
- , then the maximum value of
- $(x - 2)(y + 1)(z - 3)$
- is—

(A) 54 (B) 27
(C) 25 (D) 30

45. The medians of a triangle ABC meet at G. If the area of the triangle be 120 sq cm, then the area of the triangle GBC is—

(A) 30 sq cm (B) 50 sq cm
(C) 20 sq cm (D) 40 sq cm

46. The mid points of AB and AC of a triangle ABC are respectively X and Y. If
- $BC + XY = 12$
- unit, then the value of
- $BC - XY$
- is—

(A) 4 (B) 12
(C) 6 (D) 8

47. Suppose AB is a diameter of a circle whose centre is at O and C be any point on the circle. If
- $CD \perp AB$
- and
- $CD = 12$
- cm,
- $AD = 16$
- cm, then
- \overline{BD}
- is—

(A) 8 cm (B) 9 cm
(C) 10 cm (D) 12 cm

48. In a
- ΔABC
- ,
- $AB = AC$
- and D is a point on AB, such that
- $AD = DC = BC$
- . Then the
- $\angle BAC$
- is—

(A) 30° (B) 36°
(C) 40° (D) 45°

49. A, B and C are three points on a circle. The tangent at C meets BA produced at T. Given
- $\angle ATC = 36^\circ$
- and
- $\angle ACT = 48^\circ$
- , the angle subtended by AB at the centre of the circle is—

(A) 96° (B) 72°
(C) 84° (D) 48°

50. If
- $\alpha + \beta = 90^\circ$
- and
- $\alpha : \beta = 2 : 1$
- , then the value of
- $\sin \alpha : \sin \beta$
- is—

(A) 1 : 1 (B) $\sqrt{2} : 1$
(C) $\sqrt{3} : 1$ (D) 2 : 1

Answers with Explanations

1. (A) $? + 12 \cdot 86 = 235 \cdot 42 - 123 \cdot 78$
 $? = 111 \cdot 64 - 12 \cdot 86$
 $= 98 \cdot 78$

2. (E) $\therefore (?)^2 \div 2 = \frac{8}{21}$ of 189

$\Rightarrow (?)^2 = 72 \times 2 = (12)^2$

$\therefore ? = 12$

3. (D) $? = 441 \cdot 74 - 252 \cdot 68 - 105 \cdot 19$
 $= 83 \cdot 87$

4. (C) $? = \frac{11}{13} + \frac{5}{26} + \frac{3}{52}$
 $= \frac{44 + 10 + 3}{52} = \frac{57}{52}$
 $= 1\frac{5}{52}$

5. (B) $\therefore ? + 150 = 0 \cdot 8 \times 5 \cdot 5 + 0 \cdot 2 \times 15$
 $= \frac{0 \cdot 8 \times 5 \cdot 5}{0 \cdot 2} \times 15$
 $= 330$

$\therefore ? = 330 - 150 = 180$

6. (D) $(?)^3 = (45 \cdot 8 \times 6 \times 5) \div 2 - 344$
 $= \frac{1374}{2} - 344 = 687 - 344$
 $= 343 = (7)^3$

$\therefore ? = 7$

7. (E) $\therefore \frac{86}{100}$ of $? + 54 \cdot 5 = 162$

$\Rightarrow 0 \cdot 86 \times ? = 162 - 54 \cdot 5$

$\therefore ? = \frac{107 \cdot 5}{0 \cdot 86}$
 $= 125$

8. (A) $\therefore ? \times 13 = 3435 + 3 + 51$

$\therefore ? = \frac{1145 + 51}{13} = \frac{1196}{13}$
 $= 92$

9. (C) $\frac{7}{3}$ of $\frac{5}{4}$ of $(?) = 280$

$? = \frac{280 \times 3 \times 4}{7 \times 5}$
 $= 96$

10. (B) $? = 1\frac{1}{5} - 1\frac{1}{10} + 1\frac{1}{20}$
 $= 1 + \left(\frac{1}{5} - \frac{1}{10} + \frac{1}{20}\right)$
 $= 1 + \left(\frac{4 - 2 + 1}{20}\right)$
 $= 1\frac{3}{20}$

$$11. (C) \because ? + (6)^2 = 7655 - 8354 + 5434$$

$$\therefore ? = 4699$$

$$12. (E) (?)^2 = 84 \times 13 \div 2 - 17$$

$$= 546 - 17$$

$$= 529 = (\pm 23)^2$$

$$? = -23$$

$$13. (B) ? = \frac{24}{100} \text{ of } 1250 - \frac{32}{100} \text{ of } 950$$

$$= 300 - 304$$

$$= -4$$

$$14. (A) \because \frac{?}{100} \text{ of } 800 + (12)^2 = 504$$

$$\Rightarrow 8 \times ? = 504 - 144$$

$$\therefore ? = \frac{360}{8} = 45$$

$$15. (C) ? = (2 \times 8 + 4)^4 \div (4 \times 4) \div 5$$

$$= (4)^4 \div 16 \div 5$$

$$= \frac{256}{16 \times 5}$$

$$= 3.2$$

$$16. (E) ? = \frac{7}{12} \text{ of } \frac{48}{100} \text{ of } 750$$

$$= 7 \times 30$$

$$= 210$$

$$17. (D) \because ? + 4 = (14 \times 6) - (13 \times 5) + 9$$

$$= 84 - 65 + 9$$

$$\therefore ? = 28 \times 4$$

$$= 112$$

$$18. (C) ? = \sqrt{432 \div 24 + 123 - 20}$$

$$= \sqrt{18 + 123 - 20}$$

$$= \sqrt{121}$$

$$= 11$$

$$19. (C) ? \div (-5) = (456 - 434) \div 16$$

$$= \frac{112}{16}$$

$$? = 7 \times (-5) = -35$$

$$20. (E) (?)^2 = (19)^2 - (3)^3 - \sqrt{676} + 16$$

$$= 361 - 27 - 26 + 16$$

$$= 324 = (18)^2$$

$$? = 18$$

$$21. (B) \text{ Reqd. value} = (29)^2 - (6)^3$$

$$= 841 - 216$$

$$= 625$$

$$22. (D) \text{ Reqd. \% marks}$$

$$= \frac{32 + 58 + 46 + 94 + 74}{5} \%$$

$$= \frac{304}{5} \% = 60.8\%$$

$$23. (A)$$

$$\begin{array}{r} 28 \\ \leftarrow + 9 = (9 \times 1) \\ 37 \\ \leftarrow + 27 = (9 \times 3) \\ 64 \\ \leftarrow + 45 = (9 \times 5) \\ 109 \\ \leftarrow + 63 = (9 \times 7) \\ 172 \\ \leftarrow + 81 = (9 \times 9) \\ \boxed{253} ? \end{array}$$

$$24. (E)$$

$$\begin{array}{r} 23 \\ \leftarrow + 416 \\ 439 \\ \leftarrow + 208 \\ 647 \\ \leftarrow + 104 \\ 751 \\ \leftarrow + 52 \\ 803 \\ \leftarrow + 26 \\ \boxed{829} ? \end{array}$$

$$25. (C)$$

$$\begin{array}{r} 13 \\ \leftarrow + 39 \\ 52 \\ \leftarrow - 23 \\ 29 \\ \leftarrow + 39 \\ 68 \\ \leftarrow - 23 \\ 45 \\ \leftarrow + 39 \\ \boxed{84} ? \end{array}$$

$$26. (C) \because \text{Area of the rectangle}$$

$$= 21 \times 35$$

$$= 735 \text{ cm}^2$$

$$\therefore \text{Area of the square}$$

$$= 735 \times \frac{1}{7} - 24$$

$$= 81 \text{ cm}^2 = (9)^2$$

$$\text{One side of the square}$$

$$= 9 \text{ cm}$$

$$\therefore \text{Perimeter of the square}$$

$$= 4 \times 9 = 36 \text{ cm}$$

$$27. (B) \because x + (x+2) + (x+4) + (x+6)$$

$$+ (x+8) = 260$$

$$\Rightarrow 5x + 20 = 260$$

$$\therefore x = \frac{260 - 20}{5}$$

$$= 48$$

$$\therefore \text{Reqd. sum} = 56 + \frac{1}{2}(48)^2$$

$$= 56 + 1152$$

$$= 1208$$

28. (D) $\frac{65}{100}$ of $\frac{2}{5}$ of 1800 = 468

29. (C) Let the rate of S.I. p.c.p.a. = R%

$$\therefore \frac{1}{8} \text{ of } 24000 = \frac{24000 \times 2 \times R}{100}$$

$$\therefore R = \frac{1}{8} \times \frac{100}{2} \%$$

$$= 6.25\%$$

30. (A) \therefore The present age of Indu
 $= 28 - 8 = 20$ years

$$\therefore \text{The present age of Lakhvir}$$

$$= \frac{7 \times 20}{5} = 28 \text{ years}$$

$$\therefore \text{Lakhvir's age 6 years ago}$$

$$= 28 - 6 = 22 \text{ years}$$

31. (D) $\frac{3}{11} = 0.27$

$$\frac{2}{9} = 0.22$$

$$\frac{5}{13} = 0.38$$

$$\frac{7}{17} = \boxed{0.41}$$

$$\text{and } \frac{8}{19} = 0.42$$

$$\therefore \text{The second largest fraction is } \frac{7}{17}.$$

32. (D) Reqd. distance
 $= (325 \times 6 + 500) \times 2 \text{ m}$
 $= (1950 + 500) \times 2 \text{ m}$
 $= 4.9 \text{ km}$

33. (B) Average weight
 $= \frac{(67 + 45 + 87 + 65 + 86 + 54 + 58)}{7} \text{ kg}$
 $= \frac{462}{7} \text{ kg}$
 $= 66 \text{ kg}$

34. (E) $\therefore \frac{(?)^{4/5}}{48} = \frac{12}{(?)^{6/5}}$

$$\Rightarrow (?)^{\frac{4}{5} + \frac{6}{5}} = 12 \times 48$$

$$\Rightarrow (?)^2 = 576 = (24)^2$$

$$\therefore ? = 24$$

35. (C) Money received on selling first time

$$= \frac{3500 \times 75}{100}$$

$$= ₹ 2625$$

Money received on selling second time

$$= \frac{2625 \times 120}{100}$$

$$= ₹ 3150$$

$$\therefore \text{Reqd. total loss}$$

$$= 3500 - 3150$$

$$= ₹ 350$$

36. (B) Reqd. no. of bags = $\frac{2286}{127}$

$$= 18$$

37. (C) Reqd. time = $\frac{6 \times 48}{24}$

$$= 12 \text{ hours}$$

38. (A) \therefore Diameter of the circle
 $= 15 + 6 = 21 \text{ cm}$

$$\therefore \text{Area of the circle}$$

$$= \frac{22}{7} \times \frac{21}{2} \times \frac{21}{2}$$

$$= 346.5 \text{ cm}^2$$

39. (B) Amit's annual income

$$= 42000 \times \frac{2}{5} \times 12$$

$$= ₹ 2.016 \text{ lac}$$

40. (D) Distance covered by train

$$= \frac{270}{15} \times \frac{13}{3} \times 12$$

$$= 6 \times 13 \times 12$$

$$= 936 \text{ km}$$

41. (A) $(x + 7)^2 = (10)^2$

$$\Rightarrow x + 7 = \pm 10$$

$$x = -7 - 10 = -17, -7 + 10 = 3$$

42. (D) Given that—

$$x + \frac{1}{x} = 6$$

$$\left(x + \frac{1}{x}\right)^2 = 36$$

$$\therefore x^2 + \frac{1}{x^2} = 34 \quad \dots(1)$$

$$\text{Again, } \left(x^2 + \frac{1}{x^2}\right)^2 = (34)^2$$

$$x^4 + \frac{1}{x^4} + 2 = 1156$$

$$\therefore x^4 + \frac{1}{x^4} = 1154$$

43. (D) Given that—

$$x + \frac{a}{x} = b$$

$$\Rightarrow x^2 + a = bx \quad \dots(1)$$

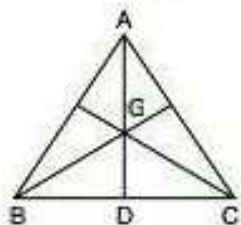
Then,

$$\begin{aligned} \frac{x^2 + bx + a}{bx^2 - x^3} &= \frac{x^2 + x^2 + a + a}{(x^2 + a) \cdot x - x^3} \\ &= \frac{2x^2 + 2a}{x^3 + ax - x^3} \\ &= \frac{2x \left(x + \frac{a}{x}\right)}{ax} \\ &= \frac{2b}{a} \end{aligned}$$

44. (B)

$$45. (D) \quad 120 = \frac{1}{2} \times \text{Base} \times \text{Height}$$

$$\Rightarrow \text{Height} = \frac{2 \times 120}{\text{Base}}$$



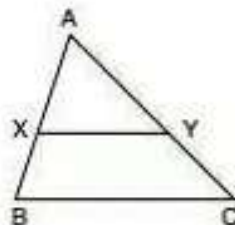
In $\triangle BGC$,

$$GD = \frac{1}{3} \left(\frac{2 \times 120}{\text{Base}} \right)$$

\therefore Area of $\triangle BGC$

$$\begin{aligned} &= \frac{1}{2} \times \text{Base} \times \frac{1}{3} \times \frac{120 \times 2}{\text{Base}} \\ &= 40 \text{ cm}^2 \end{aligned}$$

46. (A) X and Y, are the midpoints of AB and AC.



$$\therefore XY = \frac{1}{2} BC$$

$$\therefore BC + XY = 12$$

$$BC + \frac{1}{2} BC = 12$$

$$3BC = 12 \times 2$$

$$\Rightarrow BC = 8 \text{ cm}$$

$$\text{and } XY = 4 \text{ cm}$$

$$\therefore BC - XY = 8 - 4 = 4 \text{ cm}$$

47. (B) 48. (B) 49. (A)

$$50. (C) \quad \alpha + \beta = 90^\circ$$

$$\text{and } \alpha : \beta = 2 : 1$$

$$\therefore \alpha = 60^\circ$$

$$\text{and } \beta = 30^\circ$$

$$\begin{aligned} \therefore \sin 60^\circ : \sin 30^\circ &= \frac{\sqrt{3}}{2} : \frac{1}{2} \\ &= \sqrt{3} : 1 \end{aligned}$$

Part—IV General Awareness

1. Which of the following states has decided to launch Right to Play Act in the state to promote sportsmanship in its children and youth?

- (A) Delhi (B) Uttar Pradesh
(C) Haryana (D) Maharashtra
(E) Gujarat

2. 'Dhamra' where an all weather port is developed, is in which of the following states?

- (A) West Bengal (B) Odisha
(C) Gujarat (D) Maharashtra
(E) Tamil Nadu

3. Miss Wenxia Yu who was crowned Miss World 2012 is from which of the following countries ?
 (A) Wales (B) Australia
 (C) Japan (D) China
 (E) Indonesia
4. Who among the following has written the novel 'Mandra' which was awarded prestigious 'Saraswati Samman' in 2011 ?
 (A) S. L. Bhyrappa
 (B) Vishwanath Prasad Tiwari
 (C) Nirmal Verma
 (D) Shrilal Shukla
 (E) Arun Sadhu
5. Which of the following countries is on its way to becoming a full-fledged member of the World Trade Organisation (WTO) ?
 (A) Afghanistan (B) Belarus
 (C) Ethiopia (D) Kazakhstan
 (E) All of the above
6. Which of the following countries is the new member of European Union ?
 (A) Malta (B) Croatia
 (C) Hungary (D) Kenya
 (E) South Africa
7. Who among the following will be the new Governor of RBI—
 (A) Usha Thorat
 (B) K. C. Chakrabarty
 (C) Raghuram Rajan
 (D) Deepak Parakh
 (E) None of the above
8. Indian coastguard conducted a joint exercise named 'Sahyog-Kaijin-XI' with which of the following countries ?
 (A) Myanmar (B) Russia
 (C) China (D) Sri Lanka
 (E) Japan
9. Mamnoon Hussain elected 12th President of Pakistan on July 30, 2013. He was born in—
 (A) Agra (U.P.) (B) Delhi (NCR)
 (C) Lahore (Punjab) (D) Lucknow (U.P.)
 (E) None of these
10. India wants a 'CEPA' with Thailand—was the news in major newspapers. What is the full form of 'CEPA' as used here ?
 (A) Complete Economic Preference Agreement
 (B) Cultural and Economic Partnership Accord
 (C) Comprehensive Economic Partnership Agreement
 (D) Cooperation and Economic Partnership Accord
 (E) Complete Economic Partnership and Assistance
11. European Union decided to enforce European Stability Mechanism (ESM) w.e.f. July 2012. ESM is a system to achieve/ safeguard—
 (A) financial stability
 (B) political stability
 (C) free access to oil reserves in UAE and Kuwait
 (D) free access to uranium reserves in Libya
 (E) interests of all the members in case of attack by Iran or any other country
12. Kovvada Nuclear Power Plant which was recently in news is being set up in—
 (A) Karnataka (B) Andhra Pradesh
 (C) Chhattisgarh (D) Uttarakhand
 (E) Odisha
13. Mullaperiyar Dam is built on which of the following rivers ?
 (A) Tungbhadra (B) Cauvery
 (C) Krishna (D) Periyar
 (E) Mahanadi
14. Which of the following countries is **not** a member of the Organization of Petroleum Exporting Countries (OPEC) ?
 (A) Nigeria (B) Iran
 (C) Iraq (D) Algeria
 (E) Bangladesh
15. Which of the following books is written by Steve Waugh ?
 (A) Out of My Comfort Zone : The Autobiography

- (B) My Life
(C) Wings of Fire
(D) Long Walk to Freedom
(E) Revolutionary Wealth
16. Which of the following organizations/agencies recently issued elaborate guidelines pertaining to the creation of new category of Non Banking Finance Companies (NBFC)—Micro Finance Industries ?
(A) AMFI (B) SIDBI
(C) SEBI (D) NABARD
(E) RBI
17. Which of the following organizations / agencies coordinates the operations of rural credit institutions in India ?
(A) Reserve Bank of India
(B) Securities and Exchange Board of India
(C) Indian Bank Association
(D) National Bank for Agriculture and Rural Development
(E) Small Industries Development Bank of India
18. Google is —
(A) Virus programme (B) Search engine
(C) Website (D) Hardware
(E) None of these
19. Which of the following is **not** a function of the Reserve Bank of India ?
(A) Issuer of currency
(B) Foreign Exchange Management
(C) Bankers to Banks
(D) Listing companies for trading in Stock Exchanges
(E) Bankers and Debt Manager to Govt.
20. Which of the following organizations issued Initial Public Offer (IPO) Norms for Life Insurance Companies ?
(A) CRISIL (B) SEBI
(C) RBI (D) AMFI
(E) IRDA
21. Which of the following states is at the top in the Child Rights Index, compiled in India for the first time ?
(A) Maharashtra (B) Kerala
(C) Gujarat (D) Tamil Nadu
(E) Rajasthan
22. Competition Commission of India fined certain companies for their involvement in cartelisation. These companies belong to—
(A) Iron and Steel
(B) Automobile
(C) Petroleum Refinery
(D) Fertilizer
(E) Cement
23. Which of the following metals used in Nuclear Power Plants will be imported from Australia?
(A) Plutonium (B) Uranium
(C) Thorium (D) Curium
(E) Zirconium
24. Standard and Poor, better known as S&P, is a/the—
(A) Financial market intelligence agency
(B) Central Bank of USA
(C) Large multinational bank
(D) Body set up by the United Nations Organisation
(E) Intelligence wing of the World Bank
25. Thomas J. Sargent and Christopher A. Sims are the two recipients of Nobel prize 2011 in the field of—
(A) Physics (B) Economics
(C) Chemistry (D) Literature
(E) Medicine
26. The home of who among the following is named as **Malgudi Home** ?
(A) Satyajit Ray
(B) Shivram Karanth
(C) R. K. Narayan
(D) M. G. Ramachandran
(E) H. D. Deve Gowda
27. Shanti Swarup Bhatnagar Awards are given for exemplary work in the field of—
(A) Sports
(B) Journalism
(C) Literature
(D) Social Service
(E) Science and Technology
28. Which of the following states has become first in India to have a 'Carbon Inventory' giving its total carbon emission from various sectors ?

- (A) Himachal Pradesh (B) Maharashtra
(C) Gujarat (D) Kerala
(E) Tamil Nadu
29. Who among the following is one of the Deputy Governors of the RBI ?
(A) Shri U. K. Sinha
(B) Urjit Patel
(C) Dr. M. S. Ahluwalia
(D) Shri Ranjan Mathai
(E) None of these
30. The Govt. of India recently signed a peace pact with United People's Democratic Solidarity (UPDS). The pact will bring peace in which of the following states ?
(A) Bihar (B) Madhya Pradesh
(C) Assam (D) Jharkhand
(E) Maharashtra
31. Which of the following terms is associated with the game of Lawn Tennis ?
(A) Heave (B) Volley
(C) Spikers (D) Hoops
(E) Pitch
32. As per newspaper reports what per cent of Govt. stake will be disinvested in Rashtriya Ispat Nigam Ltd. ?
(A) 5% (B) 7.5%
(C) 10% (D) 12%
(E) None of these
33. ASHA is a part of which of the following schemes launched by the Govt. of India ?
(A) Operation Black Board
(B) Mid Day Meal Scheme
(C) National Old Age Pension Scheme
(D) National Rural Health Mission
(E) Bharat Nirman
34. Dr. Manmohan Singh unveiled the foundation stone of National Institute of Technology in which of the following places in Manipur ?
(A) Bishnupur (B) Thoubal
(C) Imphal (D) Senapati
(E) Ukhrul
35. Mario Monti has taken over as the Prime Minister of —
(A) Greece (B) New Zealand
(C) Russia (D) Italy
(E) None of these
36. Arab countries recently decided to impose Sanctions against the following country as it has failed to check violence on its land ?
(A) Egypt (B) Kuwait
(C) Syria (D) Lebanon
(E) Iran
37. Durga Shakti Nagpal was in the news in July-August 2013. Why ?
(A) She topped Civil Services Examination 2012
(B) She wrote a controversial book
(C) She has been appointed a judge in USA
(D) She is an I.A.S. posted as SDM at Gautambudha Nagar and was suspended by UP Govt.
(E) None of the above
38. 'Calorimeter' is an instrument used to measure —
(A) Electric current
(B) Heat
(C) Velocity of sound
(D) Altitude
(E) Atmospheric pressure
39. Which of the following countries is **not** a member of newly formed **Eurasian Union** ?
(A) Croatia
(B) Belarus
(C) Kazakhstan
(D) Russia
(E) All are members of Eurasian Union
40. Govt. of India recently decided to allow more FDI in retail. This means which of the following companies will be benefitted by this decision ?
(A) Wal Mart (B) Hindalco
(C) Infosys (D) Air India
(E) Glaxo Smithkline Pharma

41. The first Sultan who requested and obtained letters of investiture from the Caliph (Khalifa) was—
 (A) Alauddin Khilji (B) Iltutmish
 (C) Balban (D) Firuz Tughluq
42. The Buddhist monk who spread Buddhism in Tibet was—
 (A) Padmasambhava (B) Nagarjuna
 (C) Ananda (D) Asanga
43. In 1937, an educational conference endorsing Gandhi's proposals for 'basic education' through the vernacular medium was held at—
 (A) Wardha (B) Surat
 (C) Bombay (D) Ahmedabad
44. "What is the Third Estate?" pamphlet—associated with the French Revolution, was written by—
 (A) Abbe Sieyès
 (B) Marquis Lafayette
 (C) Edmund Burke
 (D) Joseph Foulon
45. Gandhi's Salt Satyagraha was a part of—
 (A) Civil Disobedience Movement
 (B) Champaran Satyagraha
 (C) Quit India Movement
 (D) Non-Cooperation Movement
46. Which of the following high dignitaries, who are not members of parliament, has the right to address it?
 (A) Chief Election Commissioner of India
 (B) Chief Justice of India
 (C) Attorney General of India
 (D) Solicitor General of India
47. The Declaration of American Independence was based on the theory of—
 (A) Natural Rights (B) Civil Rights
 (C) Moral Rights (D) Legal Rights
48. The nuclear particle having no mass and no charge, but only spin is—
 (A) electron (B) proton
 (C) neutrino (D) meson

49. The technology that is used to establish wireless networking is—
 (A) Bluetooth (B) TCP/IP
 (C) J2ME (D) MATLAB
50. What is USB?
 (A) Urgent Sent Bit
 (B) Ultimate Service Bit
 (C) Universal Sent Bit
 (D) Universal Serial Bus

Answers with Explanations

1. (C) 2. (B) 3. (D) 4. (A) 5. (D)
 6. (B) 7. (C) 8. (E) 9. (A) 10. (C)
 11. (A) 12. (B) 13. (D) 14. (E) 15. (A)
 16. (E) 17. (D) 18. (B) 19. (D) 20. (E)
 21. (B) 22. (E) 23. (B) 24. (A) 25. (B)
 26. (C)
27. (E) Shanti Swarup Bhatnagar Awards are given in the field of Science and Technology i.e. Biology/ Chemistry / Physics/ Mathematics / Medical Science / Engineering / Earth Science / Environment / Sea Science each year to the eminent /Researchers / Scientists. During 2011, this Award was given to Dr. Sheeraj Minwala (Tata Institute of Fundamental Research, Mumbai) in Physics and (i) Dr. Amit Prakash Sharma (New Delhi) and (ii) Dr. Ranjan Shankar Narayanan (CSIR Centre Hyderabad) in Biology etc.
28. (A)
 29. (B) Subir Gokaran was the Deputy Governor of RBI. He has been replaced by Urjit Patel as of January 2013.
 30. (C) 31. (B) 32. (C) 33. (D) 34. (C)
 35. (D) 36. (C) 37. (D) 38. (B) 39. (D)
 40. (A) 41. (B) 42. (D) 43. (A) 44. (A)
 45. (A) Under the leadership of Gandhiji, the civil Disobedience Movement was launched in 1930 AD. It began with the Dandi March (Salt Satyagraha)
 46. (C) 47. (B) 48. (C) 49. (A) 50. (D)