General Knowledge Sample Paper - 6

SECTION-III : GENERAL TEST

1. The strongest oxidizing agent among the following is:
   (a) Chlorine
   (b) Iodine
   (c) Fluorine
   (d) Oxygen
2. Which of the Kushana ruler patronised Buddhism?
   (a) Ashoka
   (b) Vikramaditya
   (c) Kanishka
   (d) Kautilya
3. Which Brigadier was associated with Jallianwala Bagh tragedy?
   (a) General Dyer
   (b) Arthur Wellesly
   (c) General Harris
   (d) Colonel Wellesly
4. The oath of office is administered to the Governor by the:
   (a) Chief Justice of India
   (b) Speaker of Legislative Assembly
   (c) President
   (d) Chief Justice of High Court
5. Unit of resistance is :
   (a) $volt^2 \times$ ampere
   (b) volt/ampere
   (c) ampere/volt
   (d) volt x ampere
6. What is the superannuation period of Chief Justice of Supreme Court?
   (a) 62 years (b) 66 years
   (c) 65 years (d) 60 years
7. Who is called as the "Prince of Moneyers"?
   (a) Ibrahim Lodhi
   (b) Babar
   (c) Akbar
   (d) Mohammad-Bin-Tughlaq
8. Araneology is the study of:
   (a) Rearing of bees
   (b) Study of aphids
   (c) Study of mites
   (d) Study of spiders
9. Chile saltpeter is the common name of:
   (a) Sodium nitrate
   (b) Potassium nitrite
   (c) Potassium nitrate
   (d) Sodium nitrite
10. Who translated Mahabharata into Persian?
    (a) Ibn-Batuta
    (b) AbulFazal
    (c) Babar
    (d) Badauni
11. Which of the following states is having longest coastline in India?
    (a) Andhra Pradesh
    (b) Maharashtra
    (c) Tamil Nadu
    (d) Gujarat
12. Planimeter is used to measure:
    (a) Height of a region
    (b) Direction
    (c) Road Distance
    (d) Areas
13. Then term "United Nations" was coined by:
    (a) Roosevelt
    (b) Stalin
    (c) Churchill
    (d) Lenin
14. Which type of switching is used in Internet?
    (a) Circuit
    (b) Telephone
    (c) Packet
    (d) Telex
15. Who built 'Adhai Din Ka Jhopra' or 'A hut of two and a half days' at Ajmer?
    (a) Qutbuddin Aibak
    (b) Balban
    (c) Alauddin Khalji
    (d) Muhammad-bin-Tughlaq
16. The Ozone layer protects us from:
    (a) Cosmic rays
    (b) Ultra-Violet rays
    (c) Visible rays
    (d) Infrared rays
17. International Women's Day is observed on:
    (a) 8th March
    (b) 3rd March
    (c) 27th January
    (d) 15th October
18. The first Nobel Prize in Economics was awarded to:
    (a) Stiglitz
    (b) Paul A Samuelson
    (c) Amartya Sen
    (d) Jan Tinbergan and Ragnar Frisch
19. Gas engine was invented by:
    (a) Charles (b) Davy
    (c) Daimler (d) Diesel
20. IMF stands for :
    (a) International Monetary Function
    (b) International Monetary Fund
    (c) Indian Manufacturing Firm
    (d) Interest Minimum Firm Function
21. Which of the following was the early capital of the Rashtrakutas?
    (a) Sopara (b) Ellora
    (c) Vatapi (d) Ajanta
22. The gas liberated in the Bhopal gas tragedy was:
    (a) Phenyl isocyanate
    (b) Acetylene
    (c) Ethylene
    (d) Methyl isocyanate
23. Who was elected as the 13th President of Pakistan on 4th September 2018?
    (a) Imran Khan
    (b) Maulana Fazlur Rehman
    (c) Aitzaz Ahsan
    (d) Arif Alvi
24. Network of a series of vertical and horizontal lines constructed perpendicular to each other is known as:
    (a) Grid system
    (b) Latitudes
    (c) Geographic coordinates
    (d) Longitude
25. Scurvy is caused by the deficiency of:
    (a) Vitamin 'D' (b) Vitamin 'A'
    (c) Vitamin 'C' (d) Vitamin 'B'

Directions (Q. 26-29): Select the related/letters/number from the given alternatives.

26. V.V.S. Laxman : Cricket : : Dhyan Chand : ?
    (a) Hockey (b) Football
    (c) Basketball (d) Volleyball
27. TN : WQ : : BV : ?
    (a) QT (b) LK
    (c) EY (d) EZ
28. Convenient : lnconvenient : : Reveal: ?
    (a) Outspoken
    (b) Disclose
    (c) Conceal
    (d) Communicate
29. 6 : 108 : : 11 : ?
    (a) 363 (b) 333
    (c) 253 (d) 340

Directions (Q. 30-33): Select the odd word/letters/number/number pair from the given alternatives.

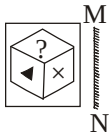
30. (a) Ethical (b) Genuine
    (c) Prejudiced (d) Reliable
31. (a) TSP (b) IHE
    (c) MLI (d) POM
32. (a) 176 (b) 263
    (c) 132 (d) 297
33. (a) 2437 (b) 9118
    (c) 8548 (d) 7649

Directions (Q. 34-61): A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

34. NR, SW, WA, ZD, ?
    (a) BF (b) BE
    (c) CF (d) DE
35. EF, K, JK, U, OP, ?
    (a) Q (b) G
    (c) F (d) E
36. 14, 19, 29, 44, ?
    (a) 50 (b) 52
    (c) 43 (d) 64
37. ln the following question, two statements are given followed by two conclusions l and ll. You have to consider the 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, if any, follows from the given statements.
    Statements:
    (l) Empty set is a subset of any set.
    (ll) A set is a subset of power set.
    Conclusions:
    (l) Empty set is a power set.
    (ll) A set is a subset of power set.
    (a) Conclusion l follows
    (b) Conclusion ll follows
    (c) Neither l nor ll follows
    (d) Both l and ll follow
38. lf 18th October 2011 was a Sunday, then what day of the week was it on 19th September 2012?
    (a) Thursday (b) Friday
    (c) Sunday (d) Monday
39. Arrange the given words in the sequence in which they occur in the dictionary.
    i. Treasure ii. Treat
    iii. Tremor iv. Trestle
    (a) i, ii, iii, iv (b) iv, iii, i, ii
    (c) ii, iii, i, iv (d) iv, iii, ii, i
40. ln a certain code language, "EXCITED" is written "DETICXE". How is "KINLEY" written in that code language?
    (a) YELNIK (b) NIKLEY
    (c) NIKYEL (d) LJOMFZ
41. ln the following question, select the missing number from the given series.

7	6	9
7	8	11
94	84	?

    (a) 81 (b) 45
    (c) 99 (d) 28
42. lf "$" means "added to", "@" means "divided by", "#" means "multiplied by" and "%" means subtracted from", then
    136 @ 17 # 0 $ 19% 5 = ?
    (a) 67 (b) 24
    (c) 14 (d) 23
43. ln the following question, which one set of letters when sequentially at the gaps in the given letter series shall complete it?
    S_RTR_ST_T_S
    (a) TRSR (b) RTSS
    (c) TSRR (d) TSRS
44. You go in the South direction, then turn left, then again take a left turn and then go to the right. Which direction are you facing now?
    (a) East (b) North
    (c) West (d) South
45. Sourabh's mother is the daughter of Ajeet's only sister. Ritik is the grandson of Ajeet. How is Ritik related to Sourabh?
    (a) Cousin
    (b) Brother
    (c) Uncle
    (d) Maternal uncle
46. lf a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?
    Question figure:



    Answer figures:
    (a) 
    (b) 
    (c) 
    (d) 
47. ldentify the digram that best represents the relationship among the given classes.
    French, German, Spanish, Languages
    (a) 
    (b) 

(c)  (d) 

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

Question figures:

Answer figures:

(a)  (b) 

(c)  (d) 

49. A word is represented by only 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 shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be reprsented first by its row and next by its column, for example, F can be represented by 32, 42 etc., and M can be represented by 88, 68 etc. Similarly, you have to identify the set for the word MOVIE.

Matrix-l

	0	1	2	3	4
0	1	N	U	H	E
1	U	I	E	L	L
2	V	G	I	N	E
3	V	W	F	I	U
4	V	V	F	N	E

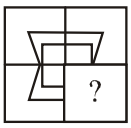
Matrix-ll

	5	6	7	8	9
5	I	S	D	R	O
6	O	I	I	M	S
7	O	S	G	I	O
8	D	M	T	M	I
9	S	D	D	M	S

(a) 98, 59, 42, 33, 44
(b) 86, 79, 40, 22, 43
(c) 88, 65, 20, 11, 24
(d) 68, 75, 30, 00, 13

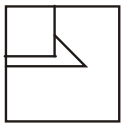
50. Which answer figure will complete the pattern in the question figure?

Question figure:



Answer figures:

(a)  (b) 

(c)  (d) 

51. If $(6x - 1) - (8x - 5) = 7$, then the value of x is
(a) – 3/2 (b) 3/2
(c) 11/2 (d) –11/2

52. If 7/8th of 5/4th of a number is 315, then 5/9th of that number is
(a) 123 (b) 81
(c) 140 (d) 160

53. The average marks of 56 students is shown as 60. It includes a wrong entry of 92 marks instead of 29 marks. The correct average is
(a) 58.875 marks
(b) 61.125 marks
(c) 63.375 marks
(d) 56.625 marks

54. If $13x^2 = 17^2 - 9^2$, find the value of x.
(a) 16 (b) 12
(c) 8 (d) 4

55. If the radius of a circle is increased by 17% than its area increases by
(a) 34 percent
(b) 36.89 percent
(c) 17 percent
(d) 18.445 percent

56. A bank offers 20% compound interest per half year. A customer deposits ₹ 2800 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is
(a) ₹ 3584 (b) ₹ 896
(c) ₹ 1792 (d) ₹ 448

57. 4 hrs after a goods train passed a station, another train travelling at a speed of 60 km/hr following that goods train passed through that station. If after passing the station the train overtakes the goods train in 8 hours. What is the speed of the goods train?
(a) 40 km/hr (b) 48 km/hr
(c) 60 km/hr (d) 32 km/hr

58. Ticket for an adult is ₹ 1000 and a child is ₹ 500. One child goes free with two adults. If a group has 17 adults and 5 children what is the discount percent the group gets?
(a) 14.7 percent (b) 32 percent
(c) 12.82 percent (d) 22 percent

59. A shopkeeper sold walnuts at the rate ₹ 1,190 a kg and bears a loss of 10%. Now if he decides to sell it at ₹ 1,249.5 per kg, what will be the result?
(a) 11 percent loss
(b) 5.5 percent loss
(c) 5.5 percent gain
(d) 11 percent gain

60. Aman is 5 times as good a workman as Bhairav and therefore is able to f inish a job in 48 days less than Bhairav.

Working together, they can do it in:
(a) 20 days (b) 5 days
(c) 25 days (d) 10 days

61. In an army selection process, the ratio of selected to unselected was 6 : 1. If 90 less had applied and 30 less selected, the ratio of selected to unselected would have been 8:1. How many candidates had applied for the process?
(a) 3150 (b) 6300
(c) 4725 (d) 1575

62. In a triangle the length of the side opposite the angle which measures 30 degree is 12 cm, what is the length of the side opposite to the angle which measures 60 degree?
(a) 9 cm (b) $12\sqrt{3}$ cm
(c) $(15\sqrt{3})/2$ cm (d) $(9\sqrt{3})/2$ cm

63. Volume of a cylinder is 13860 cubic cm. If circumference of its base is 132 cm, find the curved surface area of the cylinder?
(a) 2640 sq cm (b) 3960 sq cm
(c) 188.57 cm^2 (d) 660 sq cm

64. What is the value of $\tan 4\pi/3$?
(a) –1/2 (b) $\sqrt{3}$
(c) $\sqrt{3}/2$ (d) $-1/\sqrt{2}$

65. 40 men took a dip in a pool 30 metre long and 25 metre broad. If the average water displaced by a man is 5 metre ^{3}, what will be the rise (in cm) in the water level of the pool ?
(a) 25 (b) 26.66
(c) 27.33 (d) 28

66. A can complete a work in 20 days and B can complete the same work in 25 days. If both of them work together, in 3 days what percent of the total work will be completed?
(a) 9 (b) 12
(c) 25 (d) 27

67. The length of two parallel sides of a trapezium are 18 m and 24 m. If its height is 12 m, what is the area (in m^2) of the trapezium?
(a) 126 (b) 252
(c) 504 (d) 1024

68. If two successive discounts of 50% and 10% are offered, what is the net discount (in %)?
(a) 50 (b) 55
(c) 60 (d) 65

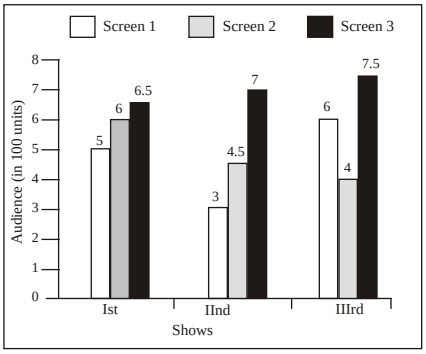
69. Three bottles of equal capacity contain mixtures of milk and water in ratio 2 : 5, 3 : 4 and 4 : 5 respectively. These three bottles are emptied into a large bottle. What will be the ratio of milk and water respectively in the large bottle?
(a) 73 : 106 (b) 73 : 116
(c) 73 : 113 (d) 73 : 189

70. The average age of 6 members of a family is 20 years. If the age of the servant is included, the average age increases by 25%. What is the age (in years) of the servant?
(a) 30 (b) 35
(c) 50 (d) 55

71. For an article the profit is 190% of the cost price. If the cost price increases by 10% but the selling price remains same, then profit is what percentage of selling price (approximately)?
(a) 54 (b) 62
(c) 70 (d) 163

72. A, B and C are three students. A got 18% more marks than B and 12% less than C. If B got 220 marks, how much marks C has got?
(a) 230 (b) 295
(c) 240 (d) 290

Directions (Q. 73-75): The bar chart given below shows the number of audience in a multiscreen theatre for three shows.



73. What is the percentage increase in the number of audience in Screen 1 from second show to third show?
(a) 50 (b) 100
(c) 120 (d) 150

74. For the second show the number of audience in Screen 3 is how much more than the number of audience in screen 1?
(a) 500 (b) 300
(c) 400 (d) 450

75. What is the percentage increase in the total number of audience from second show to third show?
(a) 20.69 (b) 25.13
(c) 22.24 (d) 18.15

SECTION-III : GENERAL TEST

1. (c) An oxidizing agent is a chemical species that removes an electron from another species. Fluorine, having the largest positive value of electrode potential, is the strongest oxidizing agent. As a matter of fact, all halogens have a ten dency to take up electrons and thus act as strong oxidizing agents. Among them, Fluorine (the most electronegative element) is given a value of 4.0 and is the strongest oxidizing agent which is reflected in its highly positive standard potential (Eo = +2.85 V). The oxidizing power decreases from fluorine to iodine. Fluorine is so strong an oxidizing agent that it is impossible to carry out reactions with it in aqueous solution.

$$2F_2 + H_2O \rightarrow 4HF + O_2$$

2. (c) Kushana, the most famous Kushana ruler, patronized Buddhism. The Fourth Buddhist Council, in which Buddhism got split into two different schools – Hin ayana and Mahayana – was held during his reign in Kashmir. He also patronized the Buddhist scholars – Vasumitra, Asvaghosha and Nagarjuna.

3. (a) The Jallianwala Bagh massacre took place on 13 April 1919 when a crowd of nonviolent protesters who had gathered in Jallianwala Bagh, Amritsar, Punjab were fired upon by troops of the British Indian Army under the command of Colonel Reginald Dyer. Dyer was removed from duty, but he became a celebrated hero in Britain.

4. (d) As per Article 159 of Indian Constitution, the Governor of a state has to take oath in the presence of the Chief Justice of the High court exercising jurisdiction in relation to the State, or, in his absence, the senior most Judge of that Court available. The Governor of a State is appointed by the President.

5. (b) An ohm (Ω) is the SI derived unit of electrical resistance. By definition, a conductor has an electrical resistance of one ohm when a constant potential difference of one volt applied between its ends produces in this conductor a current of one ampere. A volt per ampere (V/A) is the SI derived unit, which is equal to ohm by definition, R = V/A.

6. (c) Article 124(d) of Constitution of India lays down the procedure for removal of a Judge of Supreme Court which is applicable to Chief Justice as well. Once appointed, the Chief Justice remains in office until the age of 65 years whichever is earlier.

7. (d) Muhammad-bin-Tughlaq carried out several monetary experiments and has been called a 'Prince of Moneyers'. In 1329-30, he introduced token currency under which copper and brass coins were to have the same value as silver coins. The idea failed as he had done nothing to curb its private and unauthorized issue and thus every house became a mint.

8. (d) Araneology is a branch of zoology that deals with the study of spiders. It is a branch of Arachnology, the scientific study of spiders and related animals such as scorpions, pseudo-scorpions, and harvestmen, collectively called arachnids.

9.(a) Sodium Nitrate ($NaNO_3$) is also known as Chile saltpeter or Peru saltpeter (due to the large deposits found in the Atacama desert in these countries) to distinguish it from ordinary saltpeter, potassium nitrate. Also known as soda niter, it is used in the production of fertilizers, pyrotechnics and smoke bombs, glass and pottery enamels, food preservatives, and solid rocket propellant.

10. (d) The Mahabharata was translated into Persian at Akbar's orders, by Faizi and Abdal-Qadir Badauni and named Razmnamah. Razmnamah is not an exact translation but a free Persian adaptation, as Badauni states. Badauni translated two of the 18 books. Badauni also translated the Ramayana.

11. (d) Gujarat, in the north western region of India, has the longest coastline, covering more than 1,600 km. It accounts for 22% of total coastline of the country. Its coast is bordered by the Arabian Sea and the Gulfs of Khambat and Kachchh. Its coastline nurtures a diversity of habitats, especially mangroves, salt marshes, coral reefs, wetlands, and sea grasses.

12. (d) A planimeter , also known as a platometer, is a measuring instrument used to determine the area of an arbitrary two-dimensional shape. They were once common, but have now largely been replaced by digital tools. The Swiss mathematician Jakob Amsler-Laffon built the first modern planimeter in 1854.

13. (a) The name " United Nations" was coined by United States President Franklin D. Roosevelt. It was first used in the Declaration by United Nations of 1 January, 1942 during the Second World War, when representatives of 26 nations pledged their Governments to continue fighting together against the Axis Powers.

14. (c) Packet switching is the dividing of messages into packets before they are sent, transmitting each packet individually, and then reassembling them into the original message once all of them have arrived at the intended destination. A packet is the fundamental unit of information transport in internet th at uses the datagram packet switching method. Most modern Wide Area Network protocols, including TCP/IP, are based on packet-switching technologies.

15. (a) Adhai Din ka Jhonpra is an ancient Vaishnava Hindu temple which was constructed during 1153 A.D. and later converted into a mosque in the year 1193 by Qutubud-Din Aibak. It is located in the city of Ajmer, Rajasthan, on the lower slope of Taragarh Hill.

16. (b) The ozone layer refers to a region of Earth's stratosphere that absorbs most of the Sun's ultraviolet (UV) radiation. It absorbs 97-99% of the Sun's medium-frequency ultraviolet light (from about 200 nm to 315 nm wavelength), which otherwise would potentially damage exposed life forms near the surface.

17. (a) International Women's Day is celebrated on March 8 every year. Though the first International Women's Day event was run on 19 March in 1911, for the United Nations, the Day has been observed on 8 March since 1975. The official United Nations theme for International Women's Day 2015 is "Empowering Women - Empowering Humanity: Picture It!"

18. (d) The first Nobel Memorial Prize in Economic Sciences was given in 1969 to Ragnar Frisch (Norway) and Jan Tinbergen (The Netherlands) for "having developed and applied dynamic models for the analysis of economic processes." The award, officially known as The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel, is awarded annually by th e Royal Swedish Academy of Sciences.

19. (c) Gottlieb Daimler invented the prototype of the modern gasoline engine in 1885. This gas engine was made with a vertical cylinder, arid gasoline injected through a carburetor (patented in 1887). Daimler first built a two-wheeled vehicle the "Reitwagen" (Riding Carriage) with this engine and a year later built the world's first four-wheeled motor vehicle.

20. (b) IMF stands for International Monetary Fund. It is an organization of 188 countries, working to foster global monetary cooperation, secure financial stability, facilitate international trade, promote high employment and sustainable economic growth, and reduce poverty around the world. It is headquartered in Washington D.C., USA.

21. (b) There is uncertainty about the location of the early capital of the Rashtrakutas. However, since most of the Rashtrakutas monuments are found at Ellora (Ilapura), with nothing correspondence at Malkhed (Manyakhet), it has been suggested that the early Rashtrakuta capital was located in the vicinity of the Ellora caves in the time of Dantidurga who was the founder and first ruler of the dynasty. Later, Amoghavarsha I made Manyakhet his capital that remained the Rashtrakutas' regal capital until the end of the empire.

22. (d) The Bhopal gas tragedy involved the leakage of poisonous methyl isocyanate (MIC) gas and other chemicals at the Union Carbide India Limited (UCIL) pesticide plant in Bhopa l, Madhya Pradesh, on the night of 2–3 December 1984. It is considered the world's worst industrial disaster.

23. (d) On 4th September 2018, Pakistan Tehreek-e-Insaf (PTI) leader Arif Alvi was elected the 13th President of Pakistan. Arif Alvi succeeded outgoing President Mamnoon Hussain. He defeated Pakistan People Party candidate Aitzaz Ahsan and Pakistan Muslim League-Nawaz nominee Maulana Fazlur Rehman.

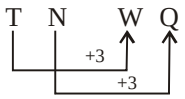
24. (a) A grid is a network or a series or vertical and horizontal lines constructed perpendicular to each other. One series or lines runs from east to west and the other from north to south. Together they form squares of same dimensions within a given map. Each of the line forming the squares is given a value so that the position of an object on a map can be easily identified.

25. (c) Scurvy is a disease resulting from the deficiency of vitamin C (ascorbic acid). It is sometimes also referred to as Barlow's disease, named after Sir Thomas Barlow, a British physician who described it in 1883. Scurvy can be prevented by consuming enough vitamin C, either in the diet or as a supplement.

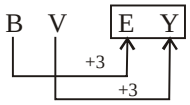
26. (a) V.V.S. Laxman is related to cricket.

Similarly, Dhyan Chand is related to Hockey.

27. (c) As,



Similarly,



Finally, the missing letter is EY.

28. (c) As, Convenient's opposite is inconvenient.

Similarly , Reveal's opposite is conceal.

29. (a) As, $6 \rightarrow 108$

$6 \rightarrow 6 \times 6 \times 3$

Similarly,

$11 \rightarrow 363$

$11 \rightarrow 11 \times 11 \times 3$

Finally, the missing number is 363.

30. (c) Prejudiced is odd word.

31. (d)

T	S	P		I	H	E
20	19	16		9	8	5
	–1	–3			–1	–3

M	L	I		P	O	M
13	12	9		16	15	13
	–1	–3			–1	–2

Finally the odd word is POM.

32. (b) $(7 - 6) = 1$

$(6 - 3) = \boxed{3}2$

$(3 - 2) = 1$ and $(9 - 7) = 2$

Finally, the odd number is 236.

33. (a) 2437

$\Rightarrow 2 \times (4 + 1) = 37$

$\Rightarrow 2 \times 5 \neq 37$

9118

9118

$\Rightarrow$ $9 \times (1 + 1) = 18$

$\Rightarrow$ $9 \times 2 = 18$

8548

$\Rightarrow$ $8 \times (5 + 1) = 48$

$\Rightarrow$ $8 \times 6 = 48$

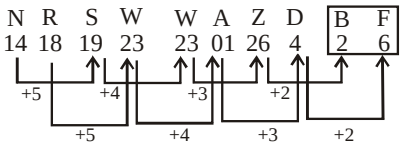
7649

$\Rightarrow$ $7 \times (6 + 1) = 49$

$\Rightarrow$ $7 \times 7 = 49$

Finally, the odd number pair is 2437.

34. (a)



Finally the missing term is BF.

35. (d) As,

E F $\rightarrow$ K

5 + 6 $\rightarrow$ 11

and J K $\rightarrow$ U

10 + 11 $\rightarrow$ 21

Similarly,

O P $\rightarrow$ E

15 + 16 $\rightarrow$ 31 and (31 – 26) = 5

Finally, the missing term is 5 = E

36. (d) The series is :

14 + 5 = 19

19 + 10 = 29

29 + 15 = 44

44 + 20 = 64

Finally, the missing number is 64.