9

Number Series, Coding Decoding and Odd Man Out Series

THIS CHAPTER INCLUDES

- Number Series
- Coding and Decoding

Odd man out

CHAPTER AT A GLANCE

Topic	Important Highlight	
Number Series	Missing terms of the series In this type the questions we have to identify the missing term of the series real according to a specific pattern of the series rule to form its code. The students are required to detect the missing number of the series and answer the questions accordingly.	
Alphabet Series	Alphabet series consists of letters of the alphabet placed in a specific pattern.	
Letter Series	This type of question usually consist of a series of small letters which follow a certain pattern. However, some letters are missing from the series. These missing letters are then given in a proper sequence as one of the alternatives.	
Coding and Decoding	Before transmitting, the data is encoded and at receiver side encode data is decoded in order to obtain original data by determining common key in encoded data.	

Letter Coding	In this type the real alphabets in a word are replaced by certain other alphabets according to a specific rule to form its code. The candidate is required to detect the common rule and answer the questions accordingly.
Number Coding	In these questions, either numerical code values are assigned to a word or alphabetical code letters are assigned to the numbers. The candidate is required to analyse the code as per the directions.
Odd Man Out	Classification means 'to assort the items' of a given group on the basis of a certain common quality they possess and then spot the stranger or 'odd one out'. These questions are based on words, letters and numerals. In these types of problems, we consider the defining quality of particular things. In these questions, four or five elements are given, out of which one does not belong to the group. You are required to find the 'odd one'.

TOPIC NOT YET ASKED BUT EQUALLY IMPORTANT FOR EXAMINATION

1. A B C D E F G H I J K L M N O P Q R S T U V W X Y Z. In the alphabet given above, which is 13th letter to the left of 8th letter from your right?

(a) E

(b) F

(c) U

(d) H

Answer: (b)

2. There are two letters in the word 'SCIENTIFIC' such that the number of letters between them is the same as the number of letters between them in the alphabet. The letter which comes later in the alphabet is your answer. If no such pair of letters is possible, then your answer is 'X'.

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	(a) E	(b) C
	(c) I	(d) X
	Answer: (a)	(a) / (
3.	` ,	o letters of the word 'INDUCTIVE' are there, which
٥.		ers between them in the given word as in the
	alphabet?	are green are are are are are are are
	(a) None	(b) 3
	(c) 1	(d) 4
	Answer: (c)	、
4.	If the following serie	es is written in reverse order, then which will be
		of 10 th letter from your right?
	ABCDEFGHIJ	KLMNOPQRSTUVWXYZ
	(a) X	(b) U
	(c) V	(d) None of these
_	Answer: (a)	
5.	<u> </u>	es all the letters at the even places are deleted and
		begins from B, then which will be the third letter to
	the left of 5 th letter from	KLMNOPQRSTUVWXYZ
	(a) I	(b) W
	(a) 1 (c) M	(d) None of these
	Answer: (d)	(d) None of these
6.	` '	ries the letters at the even places are denoted by
٥.		B, d for D and so on then how will the next month
	of November be writt	
	ABCDEFGHIJ	KLMNOPQRSTUVWXYZ
	(a) DECEMbEr	(b) deCeMber
	(c) dEcEMbER	(d) dECEMbEr
	Answer: (d)	
7.	_	es which is the 9^{th} letter to the left of 7^{th} letter from
	your left?	
		KLMNOPQRSTUVWXYZ
	(a) K	(b) O
	(c) P	(d) None of these
	Answer: (c)	

12. If with the first, fourth, fifth and eighth letters of the word 'LAUREATE' a meaningful word can be formed, which would be the first letter of that word? If no meaningful word is possible then X is the answer and if more than one, words are possible then M is the answer.

(a) X (b) E

(c) M (d) None of these

Answer: (c)

13. If with the second, fourth, sixth and 10th letters of the word 'SHOPKEEPER' a meaningful word can be formed, which would be the last letter of that word? If no meaningful word is possible then 'X' is the answer and if more than one, words can be formed, then the answer is 'M'.

(a) M (b) X (c) P (d) None of these Answer: (b) 14. If with the first, fifth, eighth and 10th letters of the word 'HOMOGENEOUS' a meaningful word can be formed, which would be the first letter of that word? If no meaningful word can be formed then the answer is 'X' and if more than one, words can be formed then 'M' is the answer. (b) X (a) H (c) M (d) None of these Answer: (a) 15. Two letters of the word 'YESTERDAY' have as many letters between them in the word as in the alphabet. The letter which comes earlier in the alphabet. The letter which comes earlier in the alphabet is your answer. If no such pair is there, then your answer will be 'X'. (a) R (b) S (c) X (d) M Answer: (a) 16. Which one of the following numbers is different from the rest? (a) 13 (b) 21 (c) 17 (d) 19 Answer: (b) 17. Which one of the following groups of letters is different from the rest? (a) NP (b) PR (c) US (d) EG Answer: (c) **Directions** — In each of the questions from 18 to 29, which one of the alternatives is different from the rest? 18. (a) 4-7 (b) 7-16 (c) 17–36 (d) 16–32 Answer: (d) 19. (a) 51-28 (b) 37-62 (c) 81–104 (d) 99–76 Answer: (b)

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- 20. (a) 111-11
 - (c) 7-91

Answer: (a)

- 21. (a) 63, 18
 - (c) 47, 34

Answer: (c)

- 22. (a) 9–27
 - (c) 10-30

Answer: (a)

- 23. (a) 10-45
 - (c) 40–180

Answer: (b)

- 24. (a) 2437
 - (c) 5407

Answer: (d)

- 25. (a) 2547
 - (c) 3715

Answer: (c)

- 26. (a) 15-40
 - (c) 24–76

Answer: (b)

- 27. (a) 6-36
 - (c) 7-49

Answer: (a)

- 28. (a) 9-40
 - (c) 17–80

Answer: (b)

- 29. (a) 200
 - (c) 700
 - Answer: (d)

- (b) 15-105
- (d) 3-81
- (b) 29, 46
- (d) 28, 41
- (b) 15-45
- (d) 20-60
- (b) 20-85
- (d) 60-270
- (b) 2419
- (d) 1459
- (b) 3456
- (d) 5678
- (b) 18-56
- (d) 12–28
- (b) 5-25
- (d) 3-9
- (b) 20-95
- (d) 16–78
- (b) 500
- (d) 600

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Directions— In each of the questions from 30 to 41, which letters group is different from the rest?

30. (a) MNW

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(c) JKT

Answer: (d)

- 31. (a) FRY
 - (c) CUT
 - Answer: (a)
- 32. (a) TEAM
 - (c) TATA

Answer: (c)

- 33. (a) KMPTZ
 - (c) HJMQV

Answer: (a)

- 34. (a) CROTON
 - (c) CRIMP

Answer: (a)

- 35. (a) CORDIAL
 - (c) CORDATE

Answer: (c)

- 36. (a) CRY
 - (c) FRY

Answer: (b)

- 37. (a) FAMOUS
 - (c) FANCIED

Answer: (b)

- 38. (a) GLARY
 - (c) GLARE

Answer: (a)

- 39. (a) GILD
 - (c) GIMP

Answer: (d)

- 40. (a) NOM
 - (c) JIH
 - Answer: (c)

- (b) OPY
- (d) GHO
- (b) HAN
- (d) DOT
- (b) THAN
- (d) TILE
- (b) DFIMR
- (d) ACFJO
- (b) CRUSH
- (d) CRINGE
- (b) CORIANDER
- (d) CORNEA
- (b) JOY
- (d) TRY
- (b) FRUCTUOUS
- (d) FAVOUR
- (b) GLAZE
- (d) GLADE
- (b) GIFT
- (d) GIBE
- (b) BCA
- (d) RSQ

(d) Tomato-Potato

(b) Unhappy-Sad

(d) Up-Down

(c) Student-Class

Answer: (d) 49. (a) Sweet-Sour

(c) In-Out

Answer: (b)

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50.	(a) Lake	(b) Brook	
	(c) Stream	(d) River	
	Answer: (a)		
51.	(a) Light-heavy	(b) Broad-Wide	
	(c) Big-Large	(d) Tiny-Small	
	Answer: (a)		
52.	(a) Unique	(b) Peerless	
	(c) Common place	(d) Unequalled	
	Answer: (c)		
53.	(a) Cover-Page	(b) Circle-Radius	
	(c) Chair-Leg	(d) Flower-Petal	
	Answer: (a)		
54.	If in a certain code 'MANISH' is written	as 'NZMRHS', then how will	
	'RANJITA' be written in the same code?		
	(a) IZMQRGZ	(b) IZMPRGZ	
	(c) IZMQRHZ	(d) IZMQRIZ	
	Answer: (a)		
55.	If in a certain code 'CANDLE' is written	as 'FDQGOH' then how will	
	'MINUTE' be written in the same code?		
	(a) PQLHXW	(b) PHWQLX	
	(c) PLQHWX	(d) PLOXWH	
	Answer: (d)		
56.	If 'THRASH' is coded as 'UGSZTG', then	how will 'HEAD' be coded?	
	(a) IECD	(b) GDZC	
	(c) IDBC	(d) GDBC	
	Answer: (c)		
57.	If 'TOMB' is coded as 'MBOR', then how	will 'GOAL' be coded?	
	(a) ALOG	(b) ALOE	
	(c) LOAG	(d) EALO	
	Answer: (b)		
58.	If 'CAMERA' is coded as 'CMRCMR', then	how will 'CHAPRA' be coded?	
	(a) CARCAR	(b) CARHPA	
	(c) HPACAR	(d) RACRAC	
	Answer: (a)		

59.	If 'GOAL' is coded as 'HPBM' and 'FROO how will 'LOFAR' be coded?	CK' is coded as 'GSPTL' then	
	(a) MPGZO	(b) MNEBS	
	(c) MPGBS	(d) MPEBR	
	Answer: (c)		
60.	If 'TORCH' is coded as 'SXILG' then how	will 'MANUAL' be coded?	
	(a) OBFMZN	(b) OZEOZN	
	(c) OZFMZN	(d) NZFMZK	
	Answer: (c)		
61.	If 'INSURE' is coded as 951395, then he	ow will 'PATRIOT' be coded?	
	(a) 7129962	(b) 7129962	
	 (c) 7129962	 (d) 7129962	
	Answer: (c)		
62.	If 'TAME' is coded as 'SULA' and 'NIDU	S' as 'MACOR' then how will	
	EMOTIONS' be coded?		
	(a) ALISEIMR	(b) DLNSHNMR	
	(c) ALISEIOR	(d) ANIUEIOT	
	Answer: (a)		
63.	If 'BEAR' is coded as 'FISH', 'FISH' as 'CR		
	as 'ELEPHANT' and 'ELEPHANT' as 'AS	SS', then who can not remain	
	alive in other place than water?		
	(a) FISH	(b) ELEPHANT	
	(c) DOG	(d) CROW	
	Answer: (d)	<u> </u>	
64.	'Vehicle' is coded as 'Book', 'Book' as 'Flower', 'Flower' as 'Sweet'		
	'Sweet' as 'House', 'House' as 'Mental Hospital', and 'Mental Hospital'		
	as 'Temple', then where is treasure of	nuge amount of knowledge	
	hidden?	(h) Cura at	
	(a) Book	(b) Sweet	
	(c) Vehicle	(d) Flower	

Answer: (d)

[Chapter ➡ 9] Number Series, Coding Decoding and... ■ 9.11

■ Solved Scanner CA Foundation Paper - 3B (New Syllabus) 9.12 65. If in a certain code '493' means 'Friendship difficult challenge', '961', means, 'Struggle difficult Exam., and '178' means 'Exam believable subject', then which digit is used for 'believable'? (a) 7 or 8 (b) 7 or 9 (c) 8 (d) 8 or 1 Answer: (a) 66. How many M's are there in the following letter series which are not immediately preceded by H but immediately followed by R? HPMXTMRHMRCKMHPTLMRNUS (a) 3 (b) 5 (c) 1 (d) 2 Answer: (d) 67. In the following number series how many times have 2, 3 and 8 come together in such a way that 2 is in the middle and 3 and 8 are at extreme positions? 24523823467328823456823628328 (a) 3 (b) 2 (d) 4 (c) More than 4 Answer: (c) 68. In the following series how many times an odd number is followed by two consecutive even numbers? 42325425326435728679454296132 (a) 4 (b) More than 4 (c) 2 (d) 3 Answer: (a) 69. In the following number series, how many such 8's are there which are divisible by its just preceding number but not divisible by its just following number? 2843285482678582482682486782

(b) 3

(d) None of these

(a) 2

(c) 1

Answer: (a)

there in which prime number of these three digits must be in the middle?

(b) 4

(d) More than 4

459694574956749543594495549

(a) 3

(c) 2

Answer: (c)

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76.	In the following letter series how man there in which W should be the middl M L W S A L S W N B Q W S L W P I	e of the group? LSNOLWTRWSL
	(a) 2 (c) 4	(b) 3 (d) None of these
	Answer: (d)	
//.	How many such H's are in the serie	s, which are preceded by P and
	followed by E? PHCRQPHETPHLHCPEH	
	(a) 2	(b) 3
	(c) 1	(d) 4
	Answer: (c)	(u) +
78.	How many X's are in the following se	ries which are preceded by F and
	followed by N?	io illien are preceded by I ame
	PEXRTNEXLRENXUPEX	ΓΑΧΓΕΧLΝΕΧ
	(a) 2	(b) 3
	(c) 1	(d) None of these
	Answer: (d)	
79.	In the following series which number	will replace the question mark:
	4, 32, 16, 128, 64, ?	
	(a) 612	(b) 512
	(c) 362	(d) 412
00	Answer: (b)	
80.	In the following series, which number 2, 5, 12, 39, 160, 805, ?	will replace the question mark:
	(a) 4936	(b) 4930
	(c) 4830	(d) 4836
	Answer: (d)	
81.	In the following series, which number 23, 29, 31, 37, 41, 43, ?	will replace the question mark:
	(a) 45	(b) 53
	(c) 47	(d) 49
	Answer: (c)	
82.	In the following series which number	will replace the question mark?
	0, 6, 24, 60, 120, 210, ?	
	(a) 336	(b) 343
	(c) 300	(d) 332
	Answer: (a)	

Q1F, S2E, U6D, W21C, ?	
(a) Y66B	(b) Y88B
(c) Z88B	(d) Y44B
Answer: (b)	
3F, 6G, 11I, 18L,?	
	(b) 25N
	(d) 27P
` '	,
· ·	
	(b) KRJ
	(d) KQH
` '	
	(b) EK
• •	(d) EL
	,
	(b) QKN
` '	(d) SIP
` '	,
` '	re missing. The missing letters
-	_
correct alternative.	
	Answer: (b) 3F, 6G, 11I, 18L,? (a) 21O (c) 27Q Answer: (d) CFL, EIK, GLJ, IOI, ? (a) KRH (c) JRH Answer: (a) BF, CH, ?, HO, LT. (a) EM (c) FJ Answer: (b) XDA, WED, VFG, UGJ, THM, ? (a) JRQ (c) PLO Answer: (d) In the following letter-series some letters a are given in the proper sequence as one

Directions: (89 - 96) In each of the questions find out the group of letters in place of question in the letter series.

89. EIO, IOU, OUA,?

(a) UAI

(a) abac

(c) ccab

Answer: (c)

(b) UAE

(b) bcac

(d) bbac

(c) AEI

(d) EIO

Answer: (b)

90. EFI, FGJ, GHK, ?, IJM

ab—abcab—abc—bca—c

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(a) HIL

(b) HIM

(c) HIK

(d) GHL

Answer: (a)

- 91. PNR, QKQ, SHO, VEL, ZBH, ?
 - (a) EZC

(b) EYC

(c) DYB

(d) FZB

Answer: (b)

- 92. ISR, 2UO, 5WL, 16YI, ?
 - (a) 49AF

(b) 33BG

(c) 65AF

(d) 65AG

Answer: (c)

- 93. A2E, B7D, D17B, G37Y, ?
 - (a) K87V

(b) K67U

(c) R57U

(d) K77U

- Answer: (d)
- 94. B0M, D1L, G1J, K2G, ?
 - (a) Q4C

(b) P5C

(c) P3C

(d) P3B

Answer: (c)

- 95. $\frac{1}{R}$, $\frac{3}{O}$, $\frac{5}{K}$, $\frac{9}{F}$, $\frac{13}{Z}$, ?
 - (a) 19/S

(b) **20**

(c) 19 T

(d) $\frac{21}{R}$

Answer: (a)

- 96. $\frac{4}{Z}$, $\frac{11}{W}$, $\frac{25}{Q}$, $\frac{46}{H}$, ?
 - (a) $\frac{67}{W}$

(b) $\frac{74}{V}$

(c) <u>**60</u>**</u>

(d) $\frac{81}{V}$

Answer: (b)

Directions: (97-104) In the following series find the number in place of

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question mark?
97. 25, 22, 30, ?, 35.
    (a) 27
                                               (b) 26
    (c) 28
                                               (d) 29
    Answer: (a)
98. 8, 13, 18, 11, 16, 21, 16, 21, 26, ?, ?, ?
                                               (b) 23, 28, 33
    (a) 28, 33, 38
    (c) 22, 27, 32
                                               (d) 21, 26, 31
    Answer: (b)
99. 3, 5, 6, 8, 11, 13, ?
    (a) 17
                                               (b) 18
    (c) 15
                                               (d) 20
    Answer: (b)
100. 2, 4, 12, 6, 12, 36, 18, 36, 108, ?
     (a) 72
                                               (b) 54
     (c) 90
                                               (d) 108
     Answer: (b)
101. 2, 7, 15, 26, 40, 57, ?
     (a) 80
                                               (b) 81
     (c) 75
                                               (d) 77
     Answer: (d)
102. 11, 5, 20, 12, ? , 26, 74, 54.
     (a) 30
                                               (b) 38
     (c) 48
                                               (d) 28
     Answer: (b)
103. 1, 4, 7, 10, ?, 16, 19, ?
     (a) 13, 22
                                               (b) 11, 22
     (c) 13, 21
                                               (d) 13, 23
     Answer: (a)
104. 5, 13, ?, 109, 325, 973.
                                               (b) 36
     (a) 39
     (c) 37
                                               (d) 35
     Answer: (c)
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