



Student Name \_\_\_\_\_

Date \_\_\_\_\_

Centre \_\_\_\_\_

**NID (UG) DAT 2016 (NEW): No. 2**

**Part A - Questions :- 70 (70 marks)**

**Time: - 2 hrs.**

1. What is the unit digit in  $(4137)^{754}$ ?

A) 1	B) 3	C) 7	D) 9
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2. Simran started a software business by investing Rs. 50,000. After six months, Nanda joined her with a capital of Rs. 80,000. After 3 years, they earned a profit of Rs. 24,500. What was Simran's share in the profit?

A) Rs. 9,423	B) Rs. 10,250	C) Rs. 12,500	D) Rs. 10,500
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3.  $287 \times 287 + 269 \times 269 - 2 \times 287 \times 269 = ?$

A) 534	B) 446	C) 354	D) 324	E) None of these
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4. Sun Temple is situated at?

A) Konark	B) Bangalore	C) Haridwar	D) Kerala
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5. 1981 was the international year of the

A) Disabled	B) Women	C) Children	D) Blind
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6. Who is the father of Geometry?

A) Aristotle	B) Euclid	C) Pythagoras	D) Kepler
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7. Synonym for the word ...STRINGENT

A) Tense	B) Stringly	C) Strict	D) Causing to Shrink
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8. In question given below out of four alternatives, choose the one which can be substituted for the given word/sentence.

Extreme old age when a man behaves like a fool

A) Imbecility	B) Senility	C) Dotage	D) Superannuation
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9. Find the odd one out....6, 9, 15, 21, 24, 28, 30

A) 28	B) 21	C) 24	D) 30
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10. Who is the author of the book 'Nineteen Eighty Four'?

A) Thomas Hardy	B) Emile Zola	C) George Orwell	D) Walter Scott
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11. Who invented the BALLPOINT PEN?

12. Window is to pane as book is to

A) novel	B) glass	C) cover	D) page
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13. Which letter replaces the question mark?

J	O?J	V
L O S		I W L
X	DKS	B

14. How much time will it take for an amount of Rs. 450 to yield Rs. 81 as interest at 4.5% per annum of simple interest?

A) 3.5 years	B) 4 years	C) 4.5 years	D) 5 years
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15. Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is:

A) 9	B) 11	C) 13	D) 15
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16. Choose the image that completes the pattern:



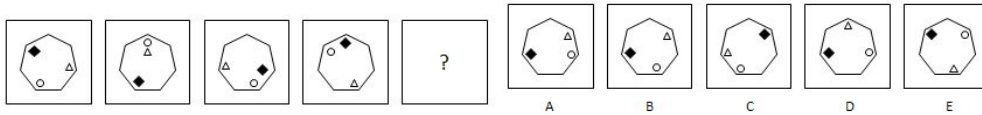
Which of the shapes below continues the sequence



17. What is the sum of 100 terms of the series  
 $1 - 2 + 3 - 4 + 5 - 6 + \dots$  ?

A) 100	B) 50	C) 550	D) Data inadequate	E) None of these
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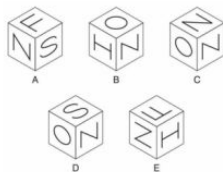
18. Find the correct one..



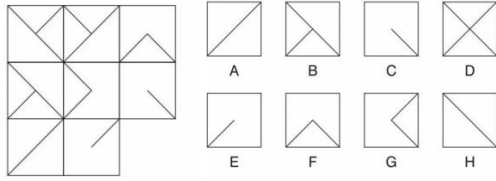
19. Which can be folded to make a cube?



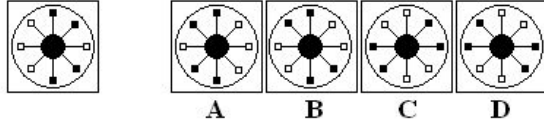
When this shape is folded to form a cube, which is the only one of the following that can be produced?



20. Which is the missing box?

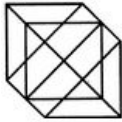


21. Which figure is identical to the first



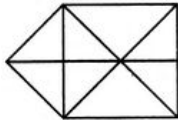
22. Stephen Hawkins is.....

23. Find the number of triangles in the given figure.



A) 18	B) 20
C) 24	D) 27

24. Find the number of triangles in the given figure.

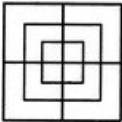


A) 15	B) 16
C) 17	D) 18

25. What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of octagon?

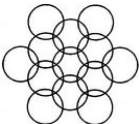
A) 64	B) 32	C) 24	D) 16
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26. Count the number of squares in the given figure.



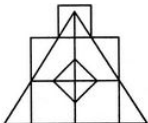
A) 8	B) 12
C) 15	D) 18

27. How many circles are there in the adjoining figure.



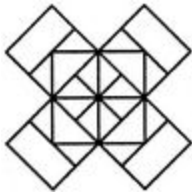
A) 11	B) 12
C) 13	D) 14

28.. Count the number of triangles and squares in the given figure.



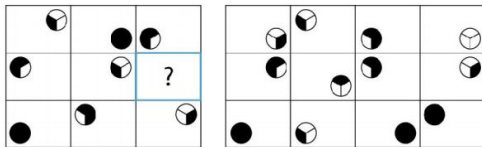
A) 21 triangles, 7 squares	B) 18 triangles, 8 squares
C) 20 triangles, 8 squares	D) 22 triangles, 7 squares

29. Count the number of squares in the given figure.

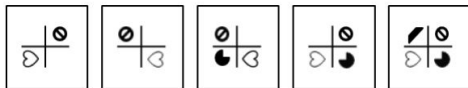


A) 22	B) 20
C) 18	D) 14

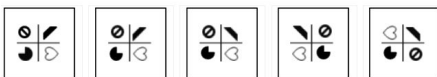
30. What replaces the question mark?



31. Choose the image that completes the patten:



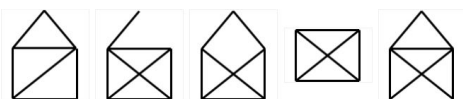
Which of the shapes below continues the sequence:



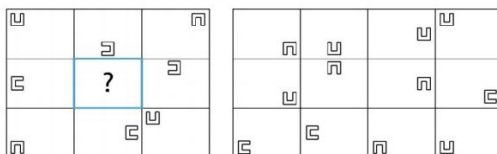
32. Choose the images that completes the pattern:



Which of the shapes below continues the sequence:



33. Which replaces the question mark ?



34. Who is the BRAND AMBASSADOR of NOKIA?

A) Sachin Tendulkar	B) Shah Rukh Khan	C) Saif Ali Khan
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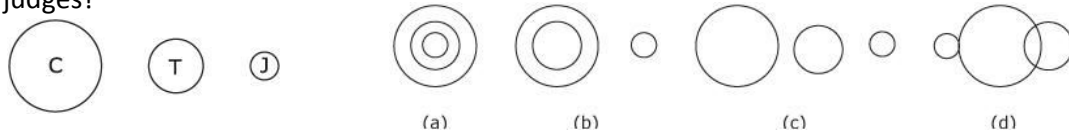
35. The temple situated near Pushkar Lake in Rajasthan is related to –

A) Lord Ganesh	B) Lord Vishnu	C) Loard Maheshwar	D) Lord Brahma
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36. Which of the following festival associated with full-moon day?

A) Eid-ul-Fitr	B) Easter	C) Holi	D) Diwali
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37. Which of the following figures best depicts the relationship among criminals, thieves and judges?



A) a	B) b	C) c	D) d
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38. Artists are generally whimsical. Some of them are frustrated. Frustrated people are prone to be drug addicts. Based on these statements which of the following conclusions is true?

A) All frustrated people are drug addicts	B) Some artists may be drug addicts
C) All drug addicts are artists	D) Frustrated people are whimsical

39. Which letter replaces the question mark?

3	5	2	8	7
2	9	1	4	3
1	4	3	9	1
4	6	3	5	2
J	X	I	Z	?

40. Cup is to coffee as bowl is to

A) dish	B) soup	C) spoon	D) Food
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41. An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in  $1\frac{2}{3}$  hours, it must travel at a speed of:

A) 300 kmph	B) 360 kmph	C) 600 kmph	D) 720 kmph
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42. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is:

A) 50 km	B) 56 km	C) 70 km	D) 80 km
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43. Excluding stoppages, the speed of a bus is 54 kmph and including stoppages, it is 45 kmph. For how many minutes does the bus stop per hour?

A) 9	B) 10	C) 12	D) 20
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44. Since 1880, which year has been ranked as hottest year?

A) .2005	B) .2012	C) .2013	D) .2014
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45. For which of the following disciplines is Nobel Prize awarded?

A) Physics and Chemistry	B) Physiology or Medicine
C) Literature, Peace and Economics	D) All of the above

46. Garampani sanctuary is located at

A) Junagarh, Gujarat	B) Diphu, Assam
C) Kohima, Nagaland	D) Gangtok, Sikkim

47. The Enron project is a

A) hydro-electric project	B) thermal power project
C) atomic power project	D) gas-fired power project

48. Look at this series: 53, 53, 40, 40, 27, 27, ... What number should come next?

A) 12	B) 14	C) 27	D) 53
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49. Look carefully for the pattern, and then choose which pair of numbers comes next.

42 40 38 35 33 31 28

A) 25 22	B) 26 23	C) 26 24	D) 25 23	E) 26 22
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50. In these series, you will be looking at both the letter pattern and the number pattern. Fill the blank in the middle of the series or end of the series.

SCD, TEF, UGH, \_\_\_\_\_, WKL

A) CMN	B) UJI	C) VIJ	D) IJT
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51. In questions given below out of four alternatives, choose the one which can be substituted for the given word/sentence.

Extreme old age when a man behaves like a fool

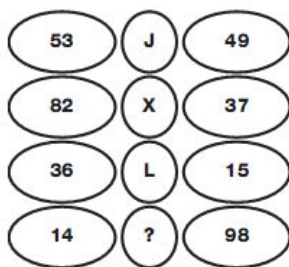
A) Imbecility	B) Senility	C) Dotage	D) Superannuation
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52. Choose the alternative which best expresses the meaning of idiom/phrase.

This matter has been hanging fire for the last many months and must therefore be decided one way or the other.

A) going on slowly	B) hotly debated	C) stuck up	D) Ignored
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53. Which letter replaces the question marks?



54. Which letter replaces the question mark?

9	L	6
3	S	5
11	G	9
4	J	13
3	?	8

55. Find the correctly spelt words.

A) Benefitted	B) Benifited	C) Benefited	D) Benefeted
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56. In questions below, each passage consist of six sentences. The first and sixth sentence are given in the begining. The middle four sentences in each have been removed and jumbled up. These are labelled as P, Q, R and S. Find out the proper order for the four sentences.

- S<sub>1</sub>: In the middle of one side of the square sits the Chairman of the committee, the most important person in the room.
- P: For a committee is not just a mere collection of individuals.
- Q: On him rests much of the responsibility for the success or failure of the committee.
- R: While this is happening we have an opportunity to get the 'feel' of this committe.
- S: As the meeting opens, he runs briskly through a number of formalities.
- S<sub>6</sub>: From the moment its members meet, it begins to have a sort nebulous life of its own.

The Proper sequence should be:

A) RSQP	B) PQRS	C) SQPR	D) QSRP
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57. Which of the following books has been written by Vikram Seth?

A) My God Died Young	B) Islamic Bomb
C) Look Back in Anger	D) A Suitable Boy

58. Who wrote the line: ' A thing of beauty is a joy forever'?

A) John Keats	B) Robert Browing	C) P. B. Shelley	D) William Wordsworth
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59. What is part of a database that holds only one type of information?

A) Report	B) Field	C) Record	D) File
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60. '.BAK' extension refers usually to what kind of file?

A) Backup file	B) Audio file	C) Animation/movie file	D) MS Encarta document
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61. Who is the present RBI Governor ?

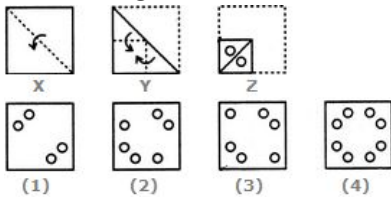
62. Solid carbon dioxide is known as \_\_\_\_\_ ?

65. How many bones are there in human skull ?

66. The first English Newspaper in India was started by

A) Dadabhai Noroji	B) JA Hickey
C) Lord William Bentinck	D) Rabindranath Tagore

67. Choose a figure which would most closely resemble the unfolded form of Figure (Z).

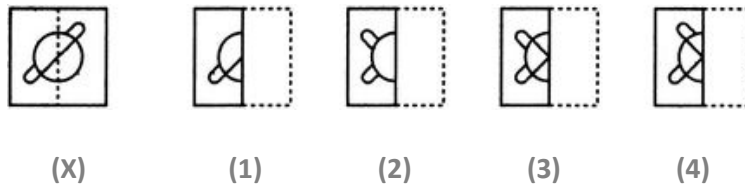


A) 1	B) 2
C) 3	D) 4

68. Who was the largest serving Chief Minister in India?

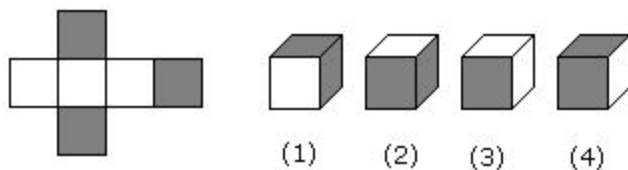
A) Bhajan Lal	B) Chimanbhai Patel	C) Jyoti Basu	D) Hiteshwar Saikia
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69. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



A) 1	B) 2	C) 3	D) 4
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70. Find the correct pattern.



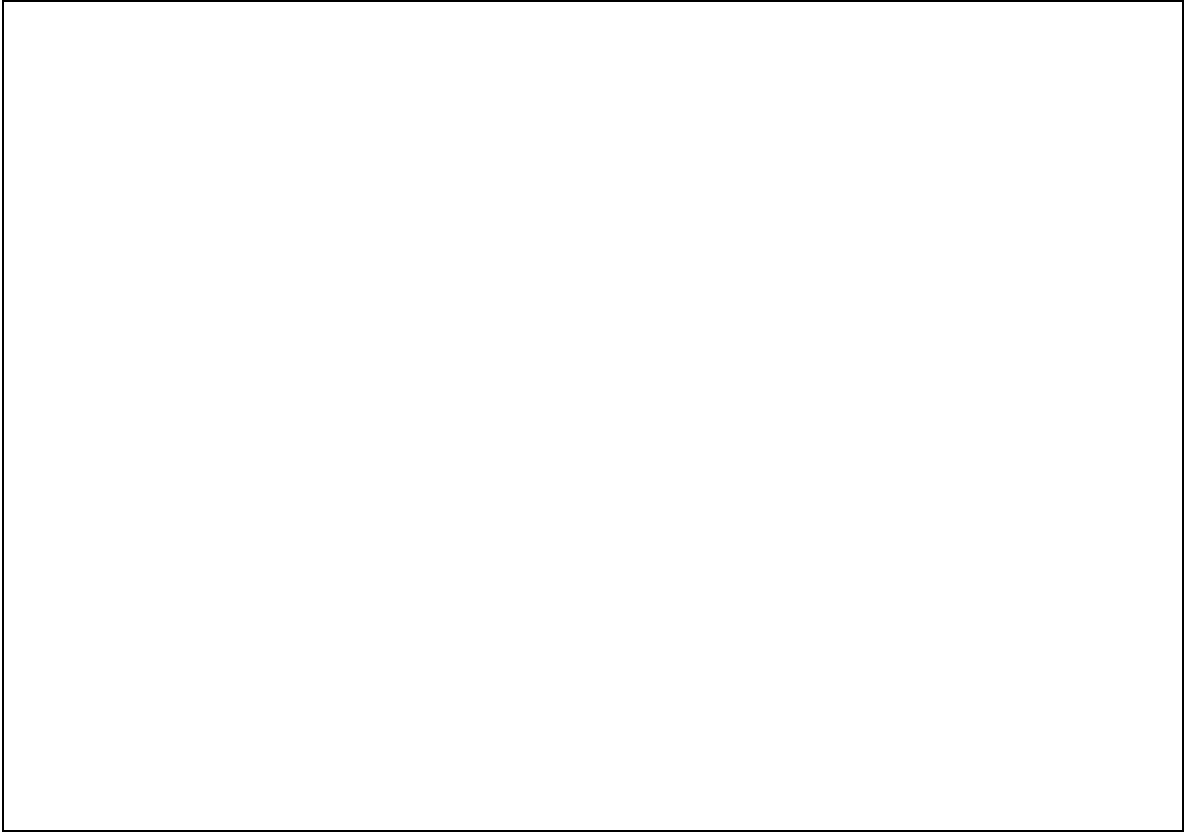
A) 1 and 3 only	B) 2 and 4 only
C) 2 and 3 only	D) 1, 2, 3 and 4



1. Imagine yourself as one of the NASA member. And you have been selected for the MISSION OBRITER. Depict in 5 steps how will you plan your visit and mention the things which are necessary for the visit. Color it. **(10 marks)**

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2. Design a toy/ game for a dyslexic kid. Keep in mind the requirements, play factor and help him to overcome the issues. Color and Sketch the concept and explain in 30 words. **(10 marks)**



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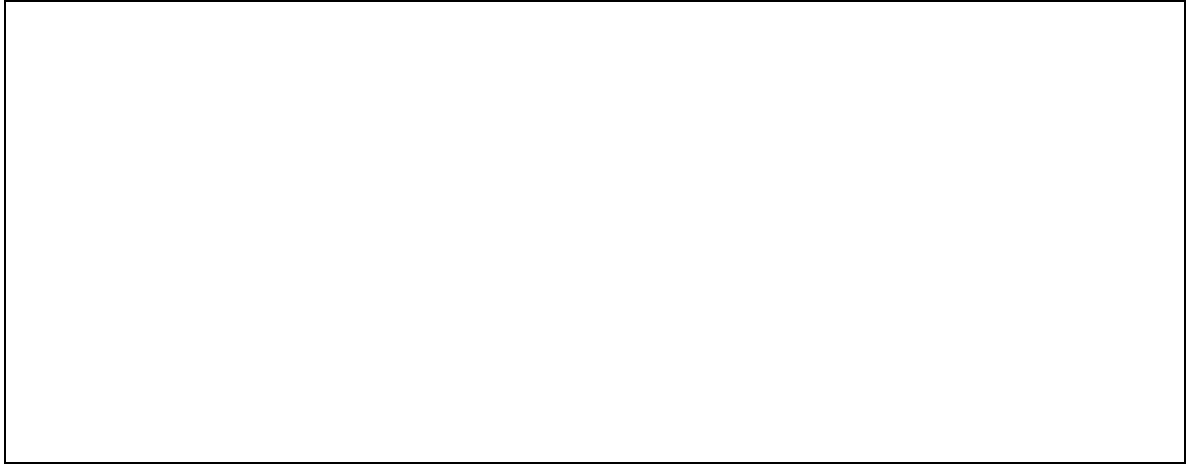
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3. Draw an alternate use of a paper clip, a stapler, a sharpner, a pencil and a spoon when blown up to 10 times its original size. **(10 marks)**





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