THE RADIANT ACADEMY
Igniting Young Minds
Udaipur

Code - 0

SAMPLE PAPER

Academic Session : 2026-27

Class : VI

FOR STUDENTS MOVING IN CLASS (VI) IN 2026-27

(PRESENTLY STUDYING IN CLASS-V IN 2025-26)

SAMPLE PAPER | **Duration: 1.5 Hours** | **Max. Marks : 210**

R-SAT

Radiant Scholarship cum Admission Test

Note : Make sure that you have filled your Class (Science + Mathematics) % , Mobile No., Medium of Study, Date of Birth, Category, Board of the School in Objective Response Sheet (ORS).

Candidate Name:

Application Form Number

The Radiant Academy

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GENERAL INSTRUCTIONS IN EXAMINATION HALL

Please read the instructions carefully..

1. Question paper contains 70 questions of **Mental Ability (1 to 25), Physics (16 to 25), Chemistry (26 to 35), Biology (36 to 45) & Mathematics (46 to 70),** each question carry 3 mark.Blank papers,
2. clip boards, log tables, slide rule, calculators, mobile or any other electronic gadgets in any form is not allowed.
3. Write your Name and Roll No. in the space provided in the bottom of this booklet.
4. Before answering the paper, fill up the required details in the blank space provided in the answer sheet.
5. Do not forget to mention your roll number neatly and clearly in the blank space provided in the answer sheet.
6. There is no negative marks for wrong answer.
7. No rough sheets will be provided by the invigilators. All the rough work is to be done in the blank space provided in the question paper.
8. In case of any dispute, the answer filled in the OMR sheet available with the institute shall be final.

MARKING CRITERIA

No. of Questions	Type	Marks		
		Correct	Incorrect	Blank
1–70	Only one correct	Q. No. 1 to 70 (3 Mark each)	No negative marks	0

IMPORTANT

PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET

Wrong Filling		Right Filling	
A ~~B~~ C D	Tick mark	A ● C D	Fully darken with HB Pencil
A ~~B~~ C D	Cross mark	A ● C D	Fully darken with HB Pencil
A ● C D	Half filled or semi dark	A ● C D	Fully darken with HB Pencil
○ B C D	Light filled	● B C D	Fully darken with HB Pencil

Best of Luck

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SAMPLE PAPER

PART-I

IQ (MENTAL ABILITY)

This section contains **15 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

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1. Find the wrong term in following series.

4, 8, 13, 16, 20, 24

(1) 8 (2) 13 (3) 16 (4) 20

2. What direction will you face if you start facing west and make $\frac{1}{4}$ of a revolution clockwise?

(1) South (2) North (3) West (4) East

3. If the first and last i.e. the first and the 26th letter of the English alphabet are paired, the second and 25th, the third and the 24th and so on are paired which of the following would be such a pair?

(1) EW (2) BY (3) FV (4) BW

4. How many 3 digit numbers can be formed using digits 4, 5, 6 only once

(1) 5 (2) 6 (3) 3 (4) 4

5. In the following question, choose the pair of words that show the same relationship as given in the above pair

Summer : Raining

(1) Monday : Sunday (2) Summer : Winter

(3) December : January (4) Licence : Driving

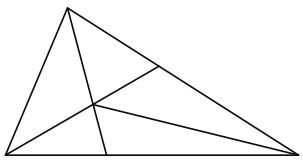
6. Letters of the word given below have been jumbled up. You are required to construct the word. Each letter has been numbered. Choose the option which gives the correct order of the letters as indicated by the numbers to form the word.

T R I F U

1 2 3 4 5

(1) 3, 1, 2, 4, 5 (2) 4, 2,5, 3, 1 (3) 4, 3, 2, 1, 5 (4) 5, 3, 2, 1, 4

7. How many triangles are there in the following figure ?



(1) 6 (2) 10 (3) 11 (4) 12

8. In the following question, four words are given. Which of them will come at the third position if all of them are arranged alphabetically as in a dictionary ?

(1) Heaven (2) Hillock (3) Hawker (4) Hilt

9. If in a certain language KINDLE is coded as ELDNIK, how is EXOTIC coded in that code ?

(1) CXOTIE (2) COXITE (3) CITOXE (4) EOXITC

10. A plane flying in North-West direction turns clockwise by an angle of 45°. In which direction is it flying now?

(1) North (2) South (3) West (4) South-west

11. X is brother of Y. B is brother of A. A is mother of X. What is B of Y ?

(1) Aunt (2) Niece (3) Nephew (4) Uncle

12. Find the missing character from amongst the given alternatives.

(1) 37 (2) 38 (3) 39 (4) 42

Direction : (Q.13 & Q.14) : P, Q, R, S, T, U, V and W are sitting round the circle and facing the centre

P is second to the right of T who is the neighbour of R and V.

S is not the neighbour of U.

V is the neighbour of U.

Q is not between S and W. W is between Q and S.

13. What is the position of S ?

(1) Between U and V (2) Second to the right of P

(3) To the immediate right of P (4) Data inadequate

14. Which two of the following are not immediate neighbours ?

(1) R and V (2) U and V (3) R and P (4) Q and W

15. Find the value of ☆ + ☆ + □ If □ + □ + □ + □ + □ = 175 and □ ÷ ☆ = 5

(1) 7 (2) 14 (3) 35 (4) 49

SAMPLE PAPER

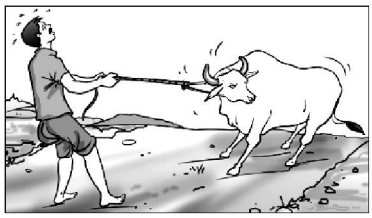
PART-II

SECTION-A : PHYSICS

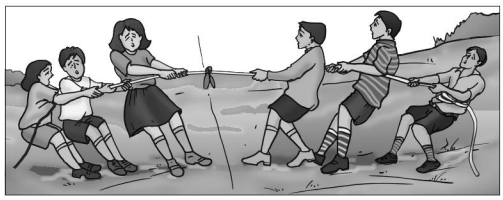
This section contains **10 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

16. In which of the following figures only pushing force is applied?

(1)

(2) 

(3)

(4) 

17. Work is always done when

(1) an object moves.
(2) a force moves an object.
(3) a force is exerted on an object.
(4) an object has mass.

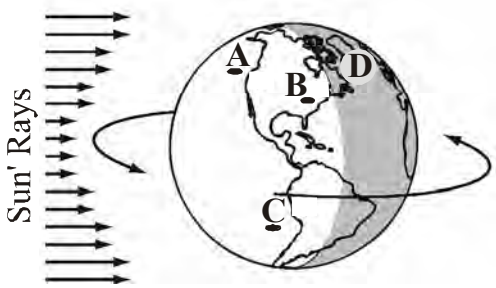
18. An axe is an example of which type of simple machine?

(1) Screw
(2) Inclined plane
(3) Wedge
(4) Lever

19. A standard bottle opener is an example of which type of lever?

(1) Lever of the first order
(2) Lever of the second order
(3) Lever of the third order
(4) Lever of the fourth order

20. In the diagram below, which of these locations would enter the night-time side of Earth next?

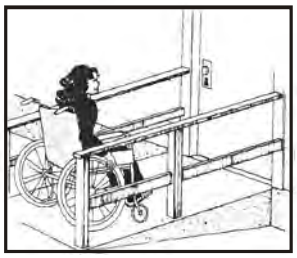


(1) A
(2) B
(3) C
(4) D

21. The Great Red Spot is a planetary feature that has been observed for hundreds of years. On which planet is the Great Red Spot?

(1) Venus (2) Mars (3) Neptune (4) Jupiter

22. The illustration below shows a student approaching the door to a building.



Which two simple machines are being used to enable the student to reach the door?

(1) Inclined plane and pulley (2) Lever and wheel-and-axle

(3) Pulley and lever (4) Wheel-and-axle and inclined plane

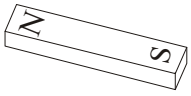
23. Which among the following is the unit of force?

(1) Newton (2) Dyne

(3) $kg\ \frac{m}{s^2}$ (4) All are units of force

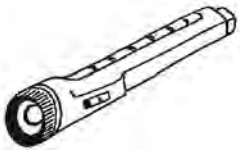
24. The picture shows Raj pulling the car made of iron with a wand.

Which of these is probably inside the wand?

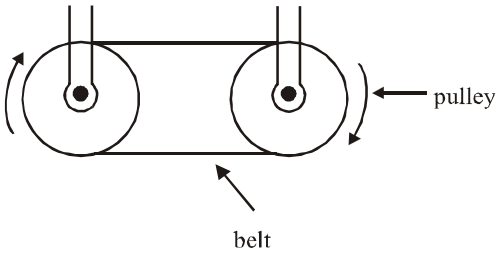
(1) 

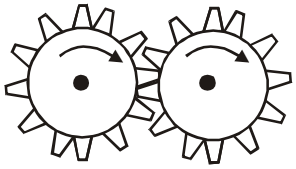
(2)

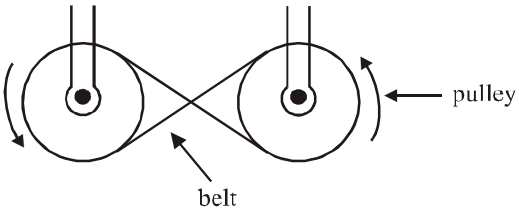
(3)

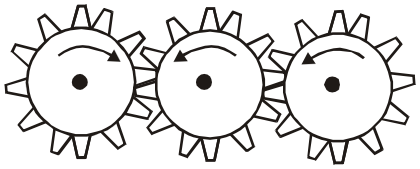
(4) 

25. Alisha wants to build a machine for her technology class. To think of ideas, she drew four sketches of moving parts for her machine. Which design will work?

(1) 

(2) 

(3) 

(4) 

SECTION-B : CHEMISTRY

This section contains **10 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

26. Substance from which metal is economically extracted is known as

(1) Mineral (2) Ore

(3) Flux (4) Slag

27. Soil can be conserved by

(1) Afforestation (2) Terrace farming

(3) Bunds (4) All the above

28. The origin point of an earthquake is called the

(1) Epicentre (2) Crater

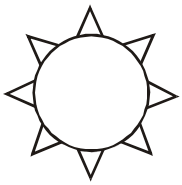
(3) Focus (4) None of these

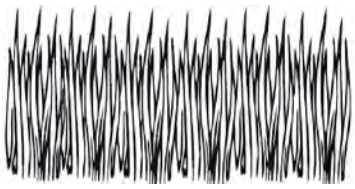
29. What is the full form of 'NGO'?

(1) Non-Government Organisation. (2) National Government Organisation

(3) National Growth Organisation (4) New Great Organisation

30. Nonrenewable resources are natural resources that cannot be replaced quickly by nature when they get used up. According to this definition, which of these is a nonrenewable resource?

(1) 

(2) 

(3)

(4)

31. Diamond is formed at.....

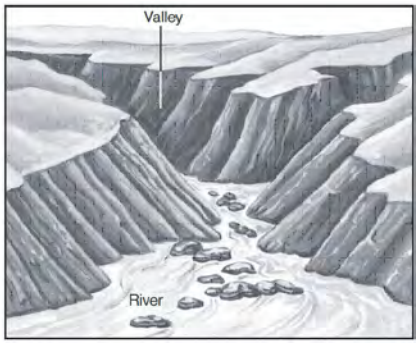
(1) high temperature and high pressure

(2) high temperature and low pressure

(3) low temperature and high pressure

(4) low temperature and low pressure

32. The diagram below shows the effect of a river on an area over many years.



Which process caused the valley to form?

(1) condensation (2) deposition

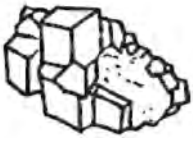
(3) erosion (4) evaporation

33. The size of crystals in igneous rock can be determined by how fast the magma cools and solidifies. The faster the magma cools, the smaller the crystals. Which sample of granite is formed from magma that is cooled and solidified at the slowest rate?

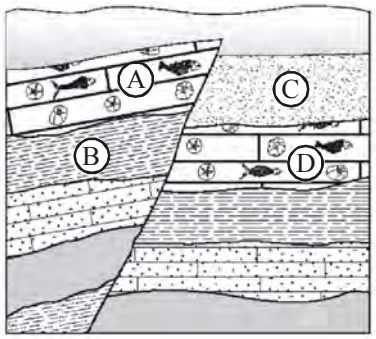
(1)

(2)

(3)

(4) 

34. The layers of this area do not line up. Which of the following could have caused this ?



(1) Weathering
(2) Earthquakes
(3) Erosion
(4) Volcanoes

35. Carbon dioxide is produced during:
(1) Photosynthesis and inspiration
(2) Transpiration and combustion
(3) Burning and respiration
(4) Respiration and photosynthesis

SECTION-C : BIOLOGY

This section contains **10 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

36. The main sources of vitamins and minerals are
(1) Pulses, meat and egg
(2) Oil, butter and ghee
(3) Fruits and green vegetables
(4) Potato, maize, wheat and rice

37. Respiratory pigment found in insects is
(1) Haemocyanin
(2) Haemoglobin
(3) Both 1 and 2
(4) Lymph

38. A person is suffering from Anaemia, the food recommended for recovery of this disorder are
(1) Iodised salt & sea food
(2) Sea food and milk
(3) Butter, fish & meat
(4) Apple & Spinach

39. Which of the following disease is non communicable?
(i) Cholera
(ii) Typhoid
(iii) Diabetes
(iv) Chicken pox
(1) (i), (ii) and (iii) (2) (iii) only (3) (i) & (ii) only (4) All of these

40. According to the feeding habits of sparrows i.e. crushing of seeds, their beaks have been specialised as being
(1) Broad and notched
(2) Short & strong
(3) Sharp and hooked
(4) None of these

41. Pernicious anaemia, failure of erythrocytes to mature, is mainly due to deficiency of

(1) Vitamin K (2) Thiamine

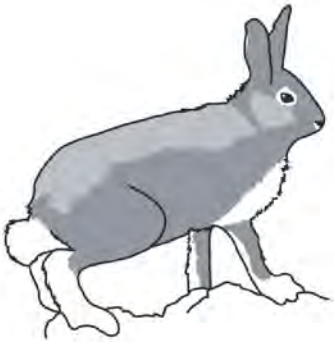
(3) Vitamin C (4) Cyanocobalamin

42. Which of these best defines communicable diseases?

(1) They can be cured. (2) They are caused by bacteria.

(3) They are spread to others. (4) They can spread only in winter.

43. The pictures below show the change in the fur of an arctic hare from summer to winter.



Fur in summer

Fur in winter

Which of the following statements best describes how this change helps arctic hares?

(1) It lowers their body temperature. (2) It protects their eyes from sunlight.

(3) It helps them to move on slippery ice. (4) It makes them less visible to predators.

44. John has diabetes.

Which of the following should he be careful about eating or drinking?

(1) Beef (2) Eggs (3) Milk (4) Fruit juice

45. A polar bear is almost completely covered with white fur. The few parts without fur include the foot pads on its large, clawed paws. The foot pads are black and covered with many small bumps. The bumps help the polar bear to

(1) Conserve body heat (2) Swim quickly in cold water

(3) Walk on ice without slipping (4) Blend in with its surroundings

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SECTION-D : MATHEMATICS

This section contains **25 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

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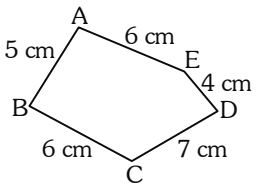
46. Find the perimeter of the following figure.



(1) 23 cm (2) 25 cm

(3) 28 cm (4) None of these

47. Which figure can be made using 3 matchsticks (without breaking the sticks) ?

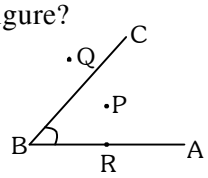
(1) Square (2) Rectangle (3) Triangle (4) Circle

48. Which figure represents greater fraction by shaded part ?

(i) (ii)

(1) (i) (2) (ii) (3) both are equal (4) None of these

49. Which point is interior to the angle in the following figure?



(1) P (2) Q

(3) R (4) Both P & Q

50. A pipe leaks 3.5 gallons of water each hour.
Which table represents the total amount of water leaked at the end of each hour?

(1)

Time(Hours)	Water Wasted (gallons)
1	3.5
2	3.5
3	3.5
4	3.5
5	3.5

(2)

Time(Hours)	Water Wasted (gallons)
1	3.5
2	7
3	10.5
4	14
5	17.5

(3)

Time(Hours)	Water Wasted (gallons)
1	3.5
2	7
3	21
4	84
5	420

(4)

Time(Hours)	Water Wasted (gallons)
1	3.5
2	12.25
3	42.88
4	150.06
5	525.22

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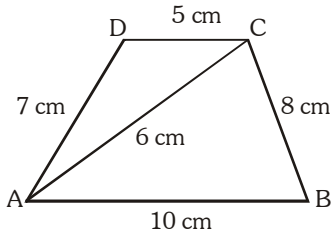
51. Find the perimeter of the following figure ABCD.



(1) 30 cm (2) 36 cm (3) 42 cm (4) 24 cm

52. If two angles of a triangle are equal and third is unequal, then the triangle is

(1) Isosceles triangle (2) Equilateral triangle (3) Scalene triangle (4) None of these

53. Mrs. Joshi will put a fence around her rectangular garden.

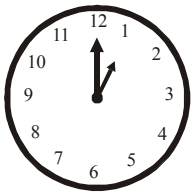
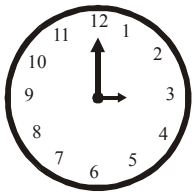
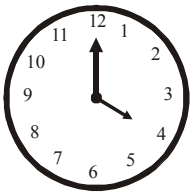
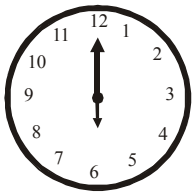
- The length of the garden is $9\frac{5}{6}$ yards.
- The width of the garden is $5\frac{1}{4}$ yards.

How many yards of fencing does Mrs. Joshi need?

(1) $14\frac{6}{10}$ (2) $29\frac{1}{12}$

(3) $29\frac{1}{5}$ (4) $30\frac{1}{6}$

54. In which clock is the angle between the hour hand and the minute hand less than 90°?

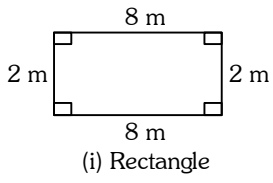
(1) 
(2) 
(3) 
(4) 

55. Solve

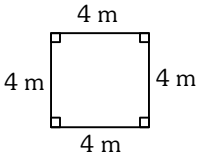
$92\frac{7}{8} - 49.326 = ?$

(1) 40.152 (2) 43.454 (3) 43.549 (4) 57.551

56. Which has greater area ?



(i) Rectangle



(ii) Square

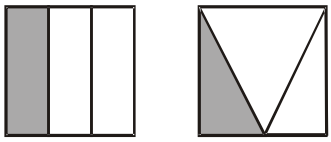
(1) (i) (2) (ii) (3) Both are equal (4) None of these

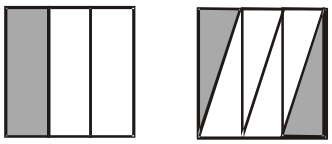
57. In a right angled triangle, one angle is 48^{o} . Then find the remaining angle.

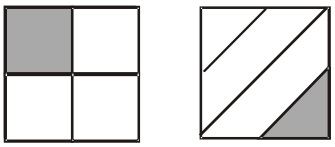
(1) 45^{o} (2) 42^{o}

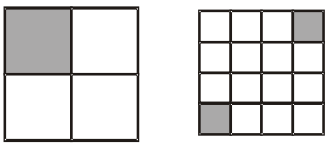
(3) 90^{o} (4) Can't be determined

58. Which pair of figures has the same fractional area shaded gray?

(1) 

(2) 

(3) 

(4) 

59. When an arm of an angle is extended then the measure of angle

(1) Doubles (2) Triples

(3) Remains the same (4) None of these

60. $2+\frac{9}{10}+\frac{9}{100}+\frac{9}{1000}+\frac{1}{1000}=$

(1) 3 (2) 2 (3) 2.999 (4) 2.991

61. If 5 can hold 25 litres of water, then 2 such can hold _____ litres of water.

(1) 5 L (2) 10 L (3) 15 L (4) 20 L

62. Mona spent Rs. 40 and had Rs. 10 left. What fraction of her money had she spent ?

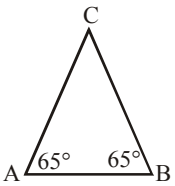
(1) $\frac{14}{5}$ (2) $\frac{40}{5}$ (3) $\frac{4}{5}$ (4) $\frac{1}{5}$

63. Bob covered a floor with carpet.

Which unit of measure describes how much carpet he used ?

(1) inches (2) feet (3) square feet (4) cubic inches

64. Triangle ABC is shown.



What is the measure of angle C ?

(1) 50° (2) 65° (3) 90° (4) 180°

65. Russell bought $2\frac{1}{8}$ pounds of turkey and $3\frac{3}{4}$ pounds of roast beef to make sandwiches. Which estimate is reasonable for the amount of meat he bought ?

(1) 4 pounds (2) 5 pounds (3) 6 pounds (4) 7 pounds

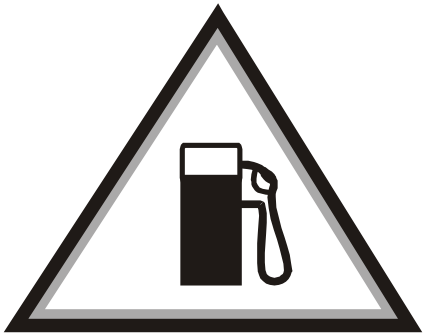
66. Heavy rains caused the water level of a lake to rise eight hundred sixty-four thousandths of a meter. Which number is equivalent to eight hundred sixty-four thousandths?

(1) 0.0864 (2) 0.864 (3) 86,400 (4) 864,000

67. Bettina has a book with 364 pages. There are 14 chapters in her book. Each chapter has the same number of pages. How many pages are in each chapter of Bettina's book ?

(1) 25 (2) 26 (3) 27 (4) 28

68. The triangular sign shown below has a height of 14 inches and a base length of 18 inches.



What is the area of this sign ?

(1) 126 square inches (2) 252 square inches

(3) 504 square inches (4) 756 square inches

69. Which two numbers have an difference of 2 / 5 ?

(1) $18\frac{2}{3}$ and $15\frac{1}{10}$ (2) $18\frac{5}{10}$ and $18\frac{1}{10}$ (3) $18\frac{1}{4}$ and $18\frac{1}{8}$ (4) $18\frac{5}{4}$ and $15\frac{1}{2}$

70. Roberto began his homework at 4:25 p.m. He finished it one and a half hours later. At what time did Roberto finish his homework ?

(1) 5:05 p.m. (2) 5:55 p.m. (3) 6:05 p.m. (4) 6:15 p.m.

(SAMPLE PAPER) **CLASS : VI**
(V to VI moving Students)

ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	2	2	2	2	3	2	4	2	3	1	4	2	3	1	4
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	3	2	3	2	2	4	4	4	1	1	2	4	3	1	3
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	1	3	4	2	3	1	1	4	2	2	4	3	4	4	3
Ques.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	3	3	1	1	2	1	1	4	1	3	3	2	2	3	1
Ques.	61	62	63	64	65	66	67	68	69	70					
Ans.	2	3	3	1	3	2	2	1	2	2					