



**SAMPLE TEST PAPER**  
**CLASS : V**

**STaRT** **2020**  
**Student Talent Reward Test**  
**NATIONAL TALENT-O-METER**

*Please read the next page of this booklet for the instructions. (कृपया निर्देशों के लिये इस पुस्तिका के अगले पृष्ठ को पढ़ें।)*

**Resonance Eduventures Limited**

**Reg. / Corp. Office :**

CG Tower, A-46 & 52, IPIA,  
Near City Mall, Jhalawar Road,  
Kota(Raj.) - 324005  
Ph. No. : (0)744 2777777, 2777700



**FAX No.:** +91-022-39167222

**E-mail :** [contact@resonance.ac.in](mailto:contact@resonance.ac.in)

**Network Contact Information**

**Time(समय) : 120 Minutes (मिनट)****Max. Marks (महत्तम अंक) : 300****Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.****कृपया इन निर्देशों को ध्यान से पढ़ें। आपको 5 मिनट विशेष रूप से इस काम के लिए दिये गये हैं।****Name of the Candidate (परीक्षार्थी का नाम) :****Reg. Number :**

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**GENERAL INSTRUCTIONS IN EXAMINATION HALL**

<p><b>A. General :</b></p> <p>1. This Question Paper contains <b>75</b> questions. Please check before starting to attempt. Physics (1 to 10), Biology (11 to 20), Chemistry (21 to 30), Maths (31 to 60), Mental Ability (61 to 75)</p> <p>2. Space is provided within question paper for rough work hence no additional sheets will be provided.</p> <p>3. Blank paper, clipboard, log tables, calculators, cellular phones and electronic gadgets in any form are <b>not</b> allowed inside the examination hall.</p> <p>4. The answer sheet, a machine-gradable <b>Objective Response Sheet (ORS)</b>, is provided separately.</p> <p>5. Do not Tamper / mutilate the <b>ORS</b> or this booklet.</p> <p>6. Do not break the seals of the question-paper booklet before instructed to do so by the invigilators.</p> <p>7. <b>SUBMIT</b> the ORS to the invigilator after completing the test &amp; take away the test paper with you.</p> <p>8. Any student found/reported using unfair means to improve his/her performance in the test, shall be disqualified from STaRT-2020.</p>	<p><b>अ. सामान्य :</b></p> <p>1. इस प्रश्न-पत्र में <b>75</b> प्रश्न हैं। कृपया परीक्षा शुरू करने से पहले जाँच लें। भौतिक विज्ञान (1 से 10), जीव विज्ञान (11 से 20), रसायन विज्ञान (21 से 30), गणित (31 से 60), मानसिक योग्यता (61 से 75)</p> <p>2. रफ कार्य करने के लिए प्रश्न-पत्र में ही स्थान दिया गया है अतः अतिरिक्त रूप से कोई शीट या पेपर नहीं दिया जाएगा।</p> <p>3. खाली कागज, तख्ती, लघुगणक सारणी, केलकुलेटर, सेल फोन एवं किसी भी प्रकार के इलेक्ट्रॉनिक गैजेट परीक्षा हॉल में लाना वर्जित है।</p> <p>4. उत्तर पुस्तिका, <b>ऑब्जेक्टिव रेस्पॉन्स शीट (ओ.आर.एस.)</b> जो कि मशीन द्वारा जाँची जाएगी, अलग से प्रदान की गई है।</p> <p>5. <b>ओ.आर.एस.</b> या प्रश्न-पत्र को किसी भी प्रकार से काटे-छांटे या मोड़े नहीं।</p> <p>6. प्रश्न-पत्र की सील तब तक नहीं खोलें जब तक कि निरीक्षक द्वारा निर्देश नहीं दिए जाएँ।</p> <p>7. परीक्षा समाप्त होने के बाद ओ.आर.एस. शीट निरीक्षक को सौंपे तथा प्रश्न-पत्र अपने साथ ले जाएँ।</p> <p>8. यदि कोई विद्यार्थी परीक्षा में अंक बढ़ाने के लिए अनुचित साधनों का प्रयोग करता पाया गया या ऐसा सूचित किया गया तो वह STaRT-2020 के लिए अयोग्य होगा।</p>
<p><b>B. How to fill Objective Response Sheet (ORS) for filling details marking answers:</b></p> <p>9. Use only HB Pencil for filling the ORS. Do not use Gel/Ink/Felt pen as it might smudge the ORS.</p> <p>10. Write your STaRT-2020 Student Registration No. in the boxes given at the top left corner of your ORS with blue/black ball point pen. Also, darken the corresponding bubbles with HB Pencil only.</p> <p>11. If any student does not fill his/her STaRT-2020 Student Registration No. correctly and properly, then his/her ORS will not be checked/evaluated.</p> <p>12. Since it is not possible to erase and correct pen filled bubble, you are advised to be extremely careful while darken the bubble corresponding to your answer.</p> <p>13. Neither try to erase / rub / scratch the option nor make the Cross (X) mark on the option once filled. Do not scribble, smudge, cut, tear, or wrinkle the ORS. Do not put any stray marks or whitener anywhere on the ORS.</p> <p>14. If there is any discrepancy between the written data and the bubbled data in your ORS, the bubbled data will be taken as final.</p>	<p><b>ब. ऑब्जेक्टिव रेस्पॉन्स शीट (ओ.आर.एस.) में डिटेल्स तथा उत्तर अंकित करने के लिए निम्न प्रकार भरें :</b></p> <p>9. ओ.आर.एस. भरने के लिए केवल HB पेंसिल का ही प्रयोग करें। जेल/स्याही/फेल्ट पेन प्रयोग नहीं करें।</p> <p>10. अपना STaRT-2020 विद्यार्थी रजिस्ट्रेशन क्रमांक ओ.आर.एस. शीट के बायें कोने में दिए गए स्थान में नीले या काले बॉल पेन से भरें। साथ ही क्रमांक के अनुसार नीचे दिए गये गोलों को भी HB पेंसिल से गहरा करें।</p> <p>11. यदि कोई विद्यार्थी अपना STaRT-2020 विद्यार्थी रजिस्ट्रेशन क्रमांक सही एवं ठीक ढंग से नहीं भरता है तो उसकी ओ.आर.एस. को चैक/मूल्यांकित नहीं किया जाएगा।</p> <p>12. ओ.आर.एस. में दिए गए गोलों को यदि एक बार बॉल पेन से गहरा किया जाता है तो उसे मिटाना संभव नहीं, इसलिए विद्यार्थी पूरी सतर्कता से ही गोलों को गहरा करें।</p> <p>13. एक बार किसी विकल्प के गोले को गहरा करने के बाद मिटाने या खुरचने का प्रयत्न नहीं करें। ओ.आर.एस. शीट पर किसी प्रकार के धब्बे, गन्दगी या सिलवट न लगने दें और न ही इसे मोड़ें या काटें।</p> <p>14. यदि किसी संदर्भ में लिखित एवं गोलों में अंकित जानकारी में अंतर पाया गया तो गोलों में अंकित जानकारी को ही प्रमाणिक माना जाएगा।</p>
<p><b>C. Question paper format and Marking scheme :</b></p> <p>15. For each right answer you will be <b>awarded 4 marks</b> if you darken the bubble corresponding to the correct answer and <b>zero marks</b> if no bubble is darkened. In case of bubbling of incorrect answer, <b>minus one (-1)</b> mark will be awarded.</p>	<p><b>स. प्रश्न-पत्र प्रारूप एवं अंक प्रदान नियम :</b></p> <p>15. प्रत्येक उत्तर के लिए <b>4 अंक</b> दिए जाएंगे यदि सही गोले को गहरा किया गया। यदि गलत गोले को गहरा किया गया तो <b>(-1) अंक</b> काटा जाएगा। यदि किसी गोले को भी गहरा नहीं किया गया तो शून्य अंक दिया जाएगा।</p>

**Best of Luck****Resonance Eduventures Ltd.****REG. / CORPORATE OFFICE : CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj.) - 324005****Ph.No. : (0744) 2777777, 2777700 | Toll Free : 1800 258 5555 | FAX No. : +91-022-39167222 | 80034 44888****Website : www.resonance.ac.in | E-mail : contact@resonance.ac.in | CIN: U80302RJ2007PLC024029**

## PART - I (PHYSICS) भाग - I (भौतिक विज्ञान)

### Straight Objective Type

This section contains (1-10) multiple choice questions. Each question has choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

#### सीधे वस्तुनिष्ठ प्रकार

इस खण्ड में (1-10) बहु-विकल्पी प्रश्न हैं। प्रत्येक प्रश्न के 4 विकल्प (A), (B), (C) तथा (D) हैं, जिनमें से **सिर्फ एक सही** है।

- Distance between Kolkata and Patna can be measured in  
(A) millimetre. (B) decimetre. (C) kilometre. (D) centimetre.
- A simple machine is to do :  
(A) less work (B) more work  
(C) work more conveniently (D) work less conveniently
- When a bus is passing by a standing man then we can say that  
(A) the bus is in motion. (B) the man is in motion.  
(C) both are in motion. (D) both are at rest
- What is an inclined plane wrapped around a cylinder?  
(A) Lever (B) Screw (C) Wedge (D) Wheel and axle
- Generally, the unit used to measure the length of mobile is  
(A) centimetre. (B) metre. (C) kilometre. (D) millimetre.
- Wedge is a kind of:  
(A) Inclined plane (B) Lever (C) Both (A) and (B) (D) None of these
- Blood flows through our veins in  
(A) fast motion. (B) slow motion. (C) rotatory motion. (D) periodic motion.
- What is an inclined plane wrapped around a cylinder?  
(A) Lever (B) Screw (C) Wedge (D) Wheel and axle
- A sloping surface used to raise objects is called a/an :  
(A) liver (B) wedge (C) wheel and axle (D) screw
- Standard unit of measurement was created by  
(A) Indians. (B) Romans. (C) Italians. (D) French.

## PART - II (BIOLOGY) भाग - II (जीव विज्ञान)

### Straight Objective Type

This section contains (11-20) multiple choice questions. Each question has choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

#### सीधे वस्तुनिष्ठ प्रकार

इस खण्ड में (11-20) बहु-विकल्पी प्रश्न हैं। प्रत्येक प्रश्न के 4 विकल्प (A), (B), (C) तथा (D) हैं, जिनमें से **सिर्फ एक सही** है।

- Which one of the following is the largest part of the brain?  
(A) Cerebellum (B) Medulla (C) Cerebrum (D) Pones

Space for Rough Work (कच्चे कार्य के लिए स्थान)

12. Reptiles breathe through  
(A) gills (B) lungs (C) Spiracles (D) None
13. The method of reproduction found in sugarcane is \_\_\_\_\_  
(A) Budding (B) Cutting (C) Sporulation (D) Fission
14. The nervous system is made up of these three parts -  
(A) Brain, heart & spinal cord (B) Brain, spinal cord & nerves  
(C) Nerves, arteries, and veins (D) Nervous, arteries & veins
15. Webbed feet is an adaptation in  
(A) Aerial birds (B) Reptilian birds (C) Aquatic birds (D) Ostrich
16. Name of female reproductive organ of flower -  
(A) Pistil (B) Stigma (C) Androecium (D) Style
17. Which part of the body is the control centre for the nervous system?  
(A) Spinal cord (B) Stomach (C) Brain (D) Heart
18. Birds can fly due to light body weight. This is due to -  
(A) Hard bones (B) Soft bones (C) Cylindrical bones (D) hollow bones
19. Coconut is dispersed by -  
(A) Water (B) Human contact (C) Animals (D) Explosion
20. The process of development of a seed into a seedling is called  
(A) Fertilization (B) Transpiration (C) Germination (D) None

### PART - III (CHEMISTRY) भाग-III (रसायन विज्ञान)

#### Straight Objective Type

This section contains (21-30) multiple choice questions. Each question has choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

#### सीधे वस्तुनिष्ठ प्रकार

इस खण्ड में (21-30) बहु-विकल्पी प्रश्न हैं। प्रत्येक प्रश्न के 4 विकल्प (A), (B), (C) तथा (D) हैं, जिनमें से सिर्फ एक सही है।

21. Molecules in gas are :  
(A) close together (B) far apart  
(C) tight and pull on each other a lot (D) None of these
22. A liquid takes the shape of its \_\_\_\_\_ and does not have its own \_\_\_\_\_  
(A) money, air pressure (B) container, shape  
(C) container gas (D) car, checking account
23. Particles of matter that move faster (like in a gas) have more of what?  
(A) energy (B) mass (C) colour (D) weight

Space for Rough Work (कच्चे कार्य के लिए स्थान)

24. Solid which dissolves in the liquid is called -  
(A) solvent (B) solute (C) solution (D) none of these
25. In a \_\_\_\_\_ change a new substance is formed-  
(A) Physical (B) Fast (C) Chemical (D) Diffusion
26. Wind does not help in the movement of which of the following?  
(A) Firki (B) Weather cock (C) Ceiling fan (D) Sailing yacht
27. Mountaineers carry oxygen cylinders with them because :  
(A) there is no oxygen on high mountains  
(B) there is deficiency of oxygen on mountains at high altitude  
(C) oxygen is used for cooking  
(D) oxygen keeps them warm at low temperature
28. Layer of atmosphere that absorbs ultraviolet rays from Sun is called  
(A) troposphere (B) ozone layer (C) thermosphere (D) mesosphere
29. Exhaled air is rich in:  
(A) carbon dioxide (B) oxygen (C) minerals (D) all of these
30. Hot air :  
(A) is heavier than cold air (B) weighs the same as cold air  
(C) is lighter than cold air (D) None of the above

## PART - IV (MATHEMATICS) भाग - IV (गणित)

### Straight Objective Type

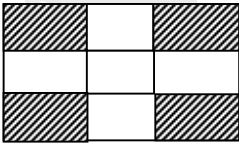
This section contains (31-60) multiple choice questions. Each question has 4 choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

#### सीधे वस्तुनिष्ठ प्रकार

इस खण्ड में (31-60) बहु-विकल्पी प्रश्न हैं। प्रत्येक प्रश्न के 4 विकल्प (A), (B), (C) तथा (D) हैं, जिनमें से सिर्फ एक सही है।

31. Which digit is at thousands place in 57, 168:  
(A) 6 (B) 7 (C) 1 (D) 8
32. The sum of the mobile number (9871014788) and reverse mobile number is  
(A) 19745116577 (B) 18755116577 (C) 18745116577 (D) 10885793677
33.  $18800 \div 470 \div 20 = ?$   
(A) 1 (B) 2 (C) 3 (D) 4
34. The least number to be subtracted from 13,601 to get a number exactly divisible by 87 is  
(A) 29 (B) 27 (C) 25 (D) 23
35. How many minutes in  $\frac{2}{3}$  of an hour?  
(A) 40 minutes (B) 60 minutes (C) 20 minutes (D) 15 minutes
36. Golu bought 750 gm potatoes, 330 gm carrot, 500 gm onion, 450 gm tomatoes, 100 gm ginger and 200 gm radish. The total weight (in kg) of the vegetables in his bag is  
(A) 2.3 kg. (B) 2.33 kg. (C) 2.4 kg. (D) 2.5 kg.

Space for Rough Work (कच्चे कार्य के लिए स्थान)

37. H.C.F of 1017, 1050, 2511 is  
(A) 2 (B) 3 (C) 5 (D) 7
38.  $123123 \div 123 - 100 =$  \_\_\_\_\_  
(A) 1 (B) 91 (C) 901 (D) 11
39. Simplify  $b - [b - (a + b) - \{b - (b - a + b)\} + 2a]$   
(A) a (B) 2a (C) 6a (D) 0
40. On simplifying  $40.8 + 0.04 + 305.7$ , we get  
(A) 325.54. (B) 342.03. (C) 346.54. (D) 348.22.
41.  $3\frac{1}{9} + 4\frac{5}{6} = ?$   
(A)  $\frac{143}{18}$  (B)  $\frac{147}{18}$  (C)  $\frac{149}{18}$  (D)  $\frac{133}{18}$
42. The smallest possible decimal fraction upto four decimal places is  
(A) .0001 (B) .1010 (C) .1001 (D) .0010
43. A bird makes  $\frac{3}{7}$  of it's nest in a day.  
The fraction of the part of left is \_\_\_\_\_  
(A)  $\frac{3}{7}$  (B)  $\frac{5}{7}$  (C)  $\frac{4}{7}$  (D) 1
44. Difference between the place values of "3" in 3116365 is.  
(A) 2999700. (B) 3000700. (C) 2990700. (D) 200070.
45.  $[147 - 2\{2(64 \div 8) - 2\} \times 5]$   
(A) 9 (B) 70 (C) 7 (D) 17
46. Vijay and Ajay are filling a fish tank with water. Vijay fills  $\frac{1}{5}$  of the tank. Then Ajay fills  $\frac{2}{5}$  of the tank.  
How much of the tank they filled in all  
(A)  $\frac{3}{25}$  (B)  $\frac{3}{10}$  (C)  $\frac{3}{5}$  (D)  $\frac{2}{5}$
47. Fraction of shaded portion
- 
- (A)  $\frac{4}{9}$  (B)  $\frac{1}{3}$  (C)  $\frac{5}{9}$  (D)  $\frac{2}{9}$
48.  $0.4 \times 0.4 \times 0.4 = ?$   
(A) 6.4 (B) 0.64 (C) 0.064 (D) None of these

Space for Rough Work (कच्चे कार्य के लिए स्थान)

49.  $11 \times (2 + 4) - 5(2 + 8)$   
 (A) 22 (B) 20 (C) 18 (D) 16
50.  $18 \div 6 + (2 + 3 \times 4) \times 2$   
 (A) 46 (B) 20 (C) 38 (D) 31
51. Every number is a multiple of .....  
 (A) 0 (B) 1 (C) -1 (D) none
52. How many times 5 should be subtracted from 50 to give 0?  
 (A) 15 (B) 10 (C) 12 (D) 5
53. Find the difference between the sum and difference of 13.07 and 5.36  
 (A) 10.72 (B) 9.72 (C) 10.62 (D) 9.62
54. Every number ending in 5 and 0 has as one of its factors.  
 (A) 10 (B) 5 (C) 2 (D) 20
55. Ritesh is packing books into boxes. Each box can hold 12 books. Which expression can be used to find the total number of boxes that he needs in order to pack 84 books?  
 (A)  $84 \div 12 = ?$  (B)  $84 - ? = 12$  (C)  $84 + 12 = ?$  (D)  $? \div 12 = 84$
56. The number is not divisible by 10  
 (A) 4200 (B) 415 (C) 420 (D) 4150
57. A bird makes  $\frac{3}{7}$  of its nest in a day.  
 The fraction of the part of left is \_\_\_\_\_  
 (A)  $\frac{3}{7}$  (B)  $\frac{5}{7}$  (C)  $\frac{4}{7}$  (D) 1
58. Mr. Gupta travelled 75 km 800 m by car and 1800 km 40 m by air. What distance did he travel in all?  
 (A) 1875840 m (B) 1675000 m (C) 175800 m (D) 255840 m
59. The length, breadth and height of a hall are 3675 cm, 2100 cm and 1050 cm respectively. Find the maximum length of a tape which can measure the the three dimensions of the hall exactly.  
 (A) 125 cm. (B) 525 cm. (C) 515 cm. (D) 505 cm
60.  $\left(\frac{12}{24} \times \frac{36}{72}\right) - \left(\frac{15}{45} \times \frac{30}{90}\right) =$  \_\_\_\_\_  
 (A)  $\frac{13}{5}$  (B)  $\frac{5}{13}$  (C)  $\frac{5}{36}$  (D)  $\frac{36}{5}$

Space for Rough Work (कच्चे कार्य के लिए स्थान)

**PART - V (MENTAL ABILITY) भाग - V (मानसिक योग्यता)**

**Straight Objective Type**

This section contains (61-75) multiple choice questions. Each question has choices (A), (B), (C) and (D) out of which **ONLY ONE** is correct.

**सीधे वस्तुनिष्ठ प्रकार**

इस खण्ड में (61-75) बहु-विकल्पी प्रश्न हैं। प्रत्येक प्रश्न के 4 विकल्प (A), (B), (C) तथा (D) हैं, जिनमें से **सिर्फ एक सही** है।

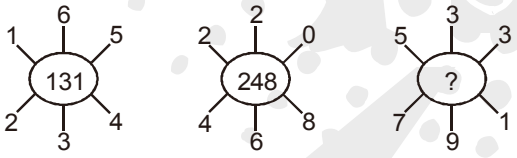
**Directions : (61 & 62) Find the wrong number.**

61. 2, 6, 10, 20, 30, 42, 56  
(A) 6 (B) 10 (C) 20 (D) 30
62. 243, 82, 27, 9, 3  
(A) 27 (B) 243 (C) 82 (D) 3

**Directions: (63 to 65) Find the missing term.**

63. BAT, ?, BAG, GAB, PACE, ECAP  
(A) FQW (B) GRX (C) EPY (D) TAB
64. CDF, DEG, EFH, ?  
(A) FDC (B) GED (C) FGI (D) HFE

65.   
(A) 15 (B) 5 (C) 21 (D) 1

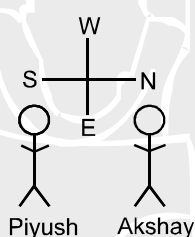
66.   
(A) 262 (B) 274 (C) 320 (D) 132

67. A car dealership had a special sale.  
" It had 100 cars to sell.  
" It sold 26 cars on Friday.  
" It sold 37 cars on Saturday.  
" It received 12 new cars on Monday.  
Which of the following expressions shows the number of cars the dealership had after the cars received on Monday?  
(A)  $(100) + (-26) + (-37) + (12)$  (B)  $(26) + (37) + (-12)$   
(C)  $(-26) + (-37) + (-12)$  (D)  $(-100) + (-26) + (37) - (-12)$

**Space for Rough Work (कच्चे कार्य के लिए स्थान)**



68. What is the value of the expression shown here?  
 $10 + 16 \div 2 \times 4$   
 (A) 12 (B) 42 (C) 52 (D) 72
69. If the following words are arranged in an alphabetical order, which word will appear in the second?  
 (A) Principal (B) Principle (C) Principia (D) Principled
70. Which of the following is in the seventh position to the right of the eighteenth position from the right end in the letter number sequence given below?  
 B3KG5PD79ERK1MT6ZHQ8W2A  
 (A) J (B) 1 (C) M (D) K
71. Ramesh started from his house, walked 2 km North then 3 km West then 6 km South, and then 3 km East. Find how far Ramesh is from his house?  
 (A) 2 km (B) 3 km (C) 4 km (D) 6 km
72. Piyush and Akshay were talking to each other face to face according to the given diagram. In which direction piyush was facing



- (A) South (B) West (C) North (D) East

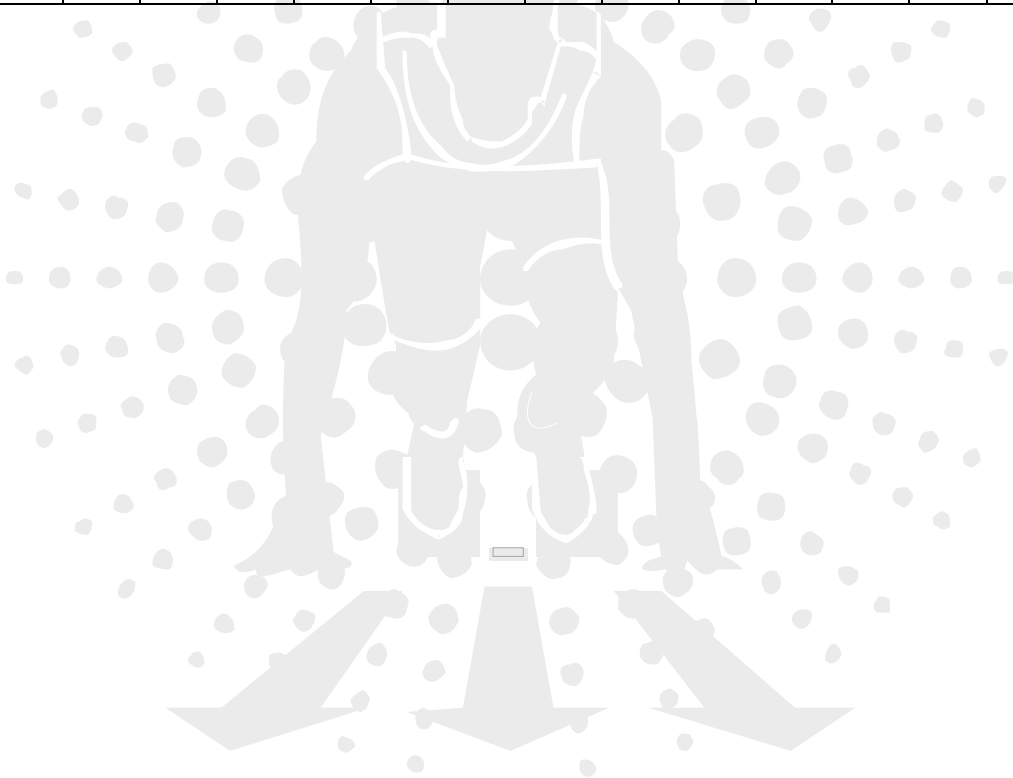
**Direction : (73-74)** In the following questions, choose the words that show the same relationship as given in the each questions.

73. 'Bird' is related to 'Nest' in the same way as 'Bees' is related to \_\_\_\_\_.  
 (A) Aquarium (B) Hive (C) Aviary (D) Tree
74. "Heart" is related to 'Blood' in the same way as "Lung" is related to  
 (A) Oxygen (B) Chest (C) Purification (D) Air
75. If the first four letters of the word **ANTHROPOMORPHISM** are rewritten in the reverse order followed by the next four rewritten in the reverse order followed by the next four letters in the reverse order and so on, which letter will be twelfth from the left end in the rewritten order ?  
 (A) O (B) H (C) M (D) P

Space for Rough Work (कच्चे कार्य के लिए स्थान)

**SAMPLE TEST PAPER (CLASS-V)**  
**ANSWER KEY**

Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	C	C	A	B	A	A	B	B	B	B	C	B	B	B	C
Ques.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	A	C	D	A	C	B	B	A	B	C	C	B	B	A	C
Ques.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	B	C	B	A	A	B	B	C	D	C	A	A	C	A	C
Ques.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	C	A	C	D	D	B	B	A	B	A	B	C	A	B	C
Ques.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Ans.	B	C	D	C	B	A	A	B	C	B	C	C	B	A	C



Space for Rough Work (कच्चे कार्य के लिए स्थान)