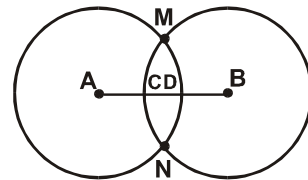


**KARNAL SHER KHAN CADET COLLEGE SWABI****ENTRY TEST FOR CLASS – VIII (2021)****PAPER: MATHS / GENERAL SCIENCE**Maximum Marks: 50  
hr

Time: 01

**(PART- A: MATHS)****Note:** Attempt all questions. No overwriting, cutting or use of ink remover is allowed.**Q-1: Fill in the blanks by using correct answer. (5)**

- i) If A and B are disjoint sets then  $B - A =$  \_\_\_\_\_.
- ii) 169 is the perfect square of \_\_\_\_\_.
- iii) Islam has fixed the rate of Zakat equal to \_\_\_\_\_.
- iv) The elements in a power set of an empty set equals to \_\_\_\_\_.
- v)  $\frac{15}{7}$  have the mixed number equal to \_\_\_\_\_.

**Q-2: Add:  $x^2 + y^2 + 2xy$ ,  $y^2 + z^2 + 2yz$ ,  $2x^2 + 3y^2 + z^2$ ,  $z^2 - 2xy - 2yz$  (6)****Q-3: Solve:  $\frac{12}{x+1} - \frac{6}{x-4} = -4$  (6)****Q-4: Factorize:  $\frac{121}{169} a^2 - 2ab + \frac{169}{121} b^2$  (6)****Q-5: A project of construction of a building can be completed by 150 workers in 40 days. But project manager brought 30 more workers after 16 days. In how many days will the remaining work be finished? (6)****Q-6: In the given figure A and B are the centers and both circles have radii of 4cm. Find the length of line segment  $\overline{AB}$ , where  $m\overline{CD} = 3cm$  (6)****(PART- B: GENERAL SCIENCE)****Q-7: Define the following: (5)**

- (i) Matter      (ii) Atomic number      (iii) Ion      (iv) Valency      (v) Molecule

**Q-8: Write short Note: (5)**

- (i) Waves      (ii) Reflection of light      (iii) Electric current      (iv) Electric circuit      (v) Voltage

**Q-9: Write the name of main parts of human digestive system. (5)**