



+1 (Non-Medical) Admission Test (Sample Question Paper)

Section - A (English)

Time : 30 min.

Marks : 20

Q.1 Read the following passage and answer the questions that follow:-

Inside the caravan, I stood on a chair and lit the oil lamp in the ceiling. I had some weekend homework to do and this was as good a time as any to do it. I laid my books on the table and sat down, But I found it impossible to keep my mind on my work. The clock showed half past seven. This was the twilight time. He would be there now. I pictured him in his old navy blue sweater and peaked cap, walking soft-footed up the track towards the wood. He told me he wore the sweater because navy-blue hardly showed up in the dark, black was even better, he said. The peaked cap was important too, he explained, because the peak casts a shadow over one's face. Just about now he would be wriggling through the hedge and entering the wood. Inside the wood, I could see him treading carefully over the leafy ground, stopping, listening, going on again and again and all the time searching and searching for the keeper who would be standing somewhere, as still as a post, behind a big tree with a gun under his arm. Keepers hardly move at all when they are in a wood watching for poachers, he had told me.

Questions:-

i) Who do you think is the narrator ? [1]

ii) What sentence from the passage indicates the boy's height ? [1]

iii) Where was the young boy living ? [1]

Q.2 Using the following key-words form a passage and also provide a suitable title to it. [4,1]

Dowry system- stigma- society.insult- women. shame-men. greed- dowry- lives- girls. Women- tortured- physically- mentally- burnt. law- evil- spreading . Women- bold- refuse- marry- dowry seekers.

Q.3 Write a paragraph in about 100 words on any one of the following:

i) Child Labour- a curse to society.

ii) Need of moral education.

iii) Threat of global warming. [5]

Q.4 Fill in the blanks with the correct options from those given below.

Music festivals (a) the globe are becoming larger - than- life events, the (b) fans from every corner (c) of the world joining these high energy parties.

(a) (i) beyond (ii) above (iii) across (iv) from

(b) (i) with (ii) on (iii) in (iv) beyond

(c) (i) in (ii) of (iii) off (iv) at [3]

Q.5 Look at the words and phrases given below. Rearrange them to form meaningful sentences.

(i) Bharat Nirman Campaign/ The UPA government/ Rs 40 crore/ on Wednesday/ unveiled a

(ii) to the river/ through/ the path/ the trees/ led [1,1]

Q.6 Transform the following sentences into Indirect speech.

(i) Anirudh says to his brother, " The moon is pretty".

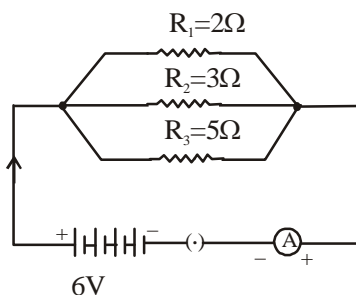
(ii) Sanjay said, "I teach the student". [1,1]

Section - B (Physics)

Time : 25 min.

Marks : 15

1. Write SI unit of resistance. 1
2. 1 Kwh = _____ J. 1
3. Define power of a lens. 1
4. Complete the given equation : $\frac{1}{V} + \frac{1}{-} = \frac{1}{-}$ 1
5. What is Snell's law ? 1
6. Write two advantages of connecting electrical devices in parallel with the battery instead of connecting them in series ? 2
7. Write the function of following : 2
 - a) Ciliary muscles
 - b) Iris
8. Define magnification for a lens. What is the sign for magnification in convex lens and concave mirror ? 2
9. Write the factors on which resistance of a conductor depends. 2
10. Find the total resistance in following circuit diagram : 2



Section - C (Chemistry)

Time : 25 min.

Marks : 15

1. How many valence electrons will carbon have ? 1
2. Identify the compound with double bond:
C₅H₈, C₅H₁₀, C₅H₁₂ 1
3. Balance the following equation : 1
Fe + H₂O → Fe₃O₄ + H₂
4. Complete the following equation 1
 $CaCO_3(s) \xrightarrow{\Delta} \underline{A} + \underline{B}$
5. Define rancidity. 1
6. Write IUPAC names of following compounds 2
 - a) CH₃-CH(Cl)-CH₂-CH₃
 - b) CH₃-CH₂-CH=CH₂
7. Write two differences between displacement reaction and double displacement reaction. 2
8. What is homologous series ? Write first two members of alcohol series. 2
9. What do you mean by thermal decomposition reaction ? Give one example. 2
10. What is Redox reaction ? Name substance which is reduced and oxidised in following reaction : 2
ZnO + C → Zn + CO

Section - A**All questions are compulsory:-**

1. For what value of k , does the quadratic equation $9x^2 + 8kx + 16 = 0$ have equal roots ?
2. How many numbers of two digits are divisible by 7 ?
3. Find the point on the x -axis which is equidistant from $(2, -5)$ and $(-2, 9)$.
4. A tangent PQ at a point P of a circle of radius 5 cm meets a line through the centre O at a point Q so that $OQ = 12$ cm. Find the length of PQ. **[4×2=8]**

Section - B

5. Find the area of a quadrant of a circle whose circumference is 22 cm.
6. A metallic sphere of radius 4.2 cm is melted and recast into the shape of a cylinder of radius 6 cm. Find the height of the cylinder.
7. One card is drawn from a well shuffled deck of 52 cards. Find the probability of getting
 - i) a face card
 - ii) a king of red colour
 - iii) a spade
8. The angle of elevation of the top of a tower from a point on the ground, which is 30m away from the foot of the tower is 30° . Find the height of the tower. **[4×3=12]**