



ABC PUBLIC SCHOOL

FA-1-2017-18
CLASS- XI
SUB-ENGLISH

Time: 1:20 Hrs.

M.M.: 20

Time : 45 min

1. You are Amisha Dubey, Secretary of SPCA (Society for Prevention of Cruelty to Animals). Write a letter to the general public, making an earnest appeal for humane treatment of street dogs. Write a line or two on what the general public should do.

or

You are the General Manager of a leading company. You are to open an office. Draft an advertisement for hiring a CA to be published daily.

2. Today the TV news channels give us instant news from all over the world. The importance of the newspaper remains. Write an article in English on 'The Relevance of Newspapers'. You are Karim/ Kavita.

or

Beggars and begging scams are increasing at an alarming rate. Write an article on the problem of begging in India in about 150-200 words.

or

3. You are Anil/Anita staying at 271, Sarojini Nagar, Delhi. You bought an automatic electric iron from Singh Electrical Goods, Karol Bagh, Delhi, a few months ago. Now you discover that there is something wrong with it. A few seconds after it is taken off the mains. Write a letter to the manufacturer requesting him to change this defective iron, as per the warranty.

or

You are Myra Roshan. Recently you read an advertisement in English in Sony Publications, Daryaganj, Delhi. Write a letter to the publisher separately. (120-150 words)

4. You are a student volunteer of National Literacy Mission. Write a speech on the importance of the Adult Literacy Campaign, 'Each one, Teach One'. Write a line or two on each Adult Literacy Centre you visit. (150-200 words).

or

Write a speech to be delivered in the morning assembly on the importance of newspapers in the education of the people. Write a line or two on the importance of reading newspapers and their entertainment value. You are Karim/ Kavita.



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FA-1- 2017-18

CLASS - XI

SUB- MATHS

Time: 1:20 Hrs.

M.M.: 20

Note:- Each question carry marks indicated in front

1. Define power set with example. 1
2. Explain the symmetry difference of two sets. 1
3. What is idempotent law. 1
4. Prove $(A \cup B)' = A' \cap B'$ with help of Venn diagram. 1
5. A college won 38 medals in football, 15 in basketball and 20 in cricket. If there were 58 medals in all the three sports, how many medals were received exactly by two of the three sports? 3
6. If $A = \{1,2,3\}$, $B = \{2,3,4\}$, $C = \{3,4,5\}$ find $A \times (B \cap C)$ 1
7. Draw the graph of $Y = |x + 1|$ 2
8. $R = (1,2) (2,3) (3,4) (4,5)$. find $R \circ R^{-1}$ 2
9. $f(x) = \sqrt{x}$ and $g(x) = x$ find $f \circ g(3)$ 1
10. Find domain of: $f(x) = \frac{x^2 + 3x + 5}{x^2 - 5x + 4}$ 2
11. Convert 40° into grade. 1
12. Convert 1 grade into second. 1
13. What is binary relation. 1
14. Find range of $f(x) = \sqrt{x^2 - 1}$ 1
15. if $f(x) = 2x - 5$, find $F^{-1}(x)$ 1



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ABC PUBLIC SCHOOL

FA-1- 2017-18

CLASS - XII

SUB- MATHS

Time: 1:20 Hrs.

M.M.: 20

Note:- Each question carry equal marks.

1. Prove that Tan x is dis contineous at $x = \pi/2$
2. Find a and b such that $f(x) \begin{cases} 5 & \text{if } x \leq 2 \\ ax+b & \text{if } 2 < x < 10 \\ 21 & \text{if } x \geq 10 \end{cases}$ in contineous function.
3. Prove that $f(x) = \text{Sin}x$ is differentiable at $\pi/2$
4. Differentiate the following and find dy/dx.
i) $y = X^x$ ii) $x = a(\cot + \cos \tan t/2)$, $y = a \text{ Sin } t$
5. If $y = A \sin x + B \cos x$ Prove that: $\frac{d^2y}{dx^2} + y = 0$
6. State mean value theorem, Roll's and language both.
7. Differentiate $x\sqrt{1+y} + y\sqrt{1+x} = 0$
8. Prove that $\begin{vmatrix} 1+a^2-b^2 & 2ab & -2b \\ -2ab & 1-a^2+b^2 & 2a \\ 2b & -2a & 1-a^2-b^2 \end{vmatrix} = (1+a^2+b^2)^3$
9. Find minor and cofactor of a_{32} $\begin{vmatrix} 2 & 3 & 5 \\ 6 & 7 & 8 \\ 9 & 4 & 1 \end{vmatrix}$
10. Find are AD whose co-ordinate are (3,8) (-4,2) (5,1).
11. Find equation of line joining (1,2) (3,6)



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