

ENGLISH

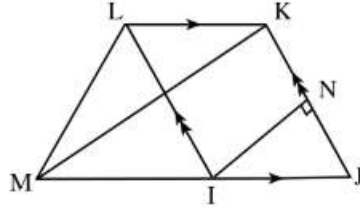
1. Sheher finger. It is bleeding now.
a. cut b. is cutting c. cuts d. has cut
2. Theforecast says it will rain this afternoon.
a. Wether b. whether c. wheather d. weather
3. Did you request him? That is to say
a. Was he requested by you?
b. Were you requested by him?
c. Have you been requested by him?
d. Had you been requested by him?
4. The negative of "I have already finished it. "is.....
a. I haven't already finished it. b. I haven't finished it already.
c. I haven't yet finished it. d. I haven't finished it yet.
5. Unless sheme, I will not go to her party.
a. Invited b. invites c. invite d. will invite
6. The antonym of 'active' is.....
a. disactive b. agile c. inactive d. activity
7. Either you or Sumitdone it.
a. have b. have had c. has d. had have
8. The noun form of 'popular' is.....
a. popularity b. population c. populous d. publicity
9. The sharp wind off his hat.
a. blow b. blowing c. blew d. have blown
10. They are talking photos of
a. them self b. ourselves c. herself d. yourself
11. What is the name of boybike you borrowed?
a. who b. whose c. whom d. that
12. My village is theplace in Nepal.
a. most beautiful b. more beautiful
c. beautiful d. beautyful
13. Do you let meyour bike?
a. used b. to use c. use d. using
14. I am teacher,?
a. amn't b. aren't c. am I d. are I
15. She wasold teacher
a. a b. an c. the d. none
16. "My father is a doctor", he said. He said thata doctor.
a. his father is b. his father was
c. my father is d. my father was
17. The bird flew the room.
a. in b. on c. onto d. into
18.his hard work, he didn't succeed.
a. Because of b. in spite c. Therefore d. Despite of
19. She had him.....by me.
a. invited b. to invite c. invite d. invites
20. The founder and the principal of the schooljust arrived.
a. have b. has c. has been d. have been

SCIENCE

21. What is the IUPAC name of ethyl alcohol?
(इथाएल अल्कोहलको IUPAC नाम के हो?)
a. Alcohol b. Ether c. Ethanol d. Methanol
22. What is the valency of neutral gas ?
(निष्क्रिय ग्याँसको संयुज्यता कति हुन्छ ?)
a. 2 b. 1 c. -1 d. 0

MATHEMATICS

41. In the given figure, area of $\triangle LMK = 24\text{cm}^2$ and $IN = 8\text{cm}$, find the length of IL . (दिइएको चित्रमा $\triangle LMK$ को क्षेत्रफल 24cm^2 र $IN = 8\text{cm}$ छ भने IL को लम्बाइ पत्ता लगाउनुस्।)
- a. 7cm b. 6cm c. 9cm d. 16cm



42. Find the value of $\frac{x-y}{xy} + \frac{y-z}{yz} + \frac{z-x}{zx}$ after simplify.

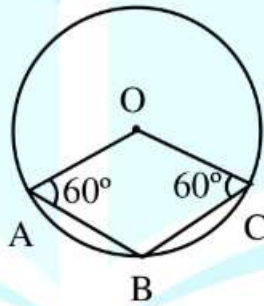
($\frac{x-y}{xy} + \frac{y-z}{yz} + \frac{z-x}{zx}$ लाई सरल गर्दा कति हुन्छ?)

- a. 0 b. 1 c. 2 d. 3
43. Find the value of $\frac{7^{x+2}+7^x}{50+7^x} \cdot (\frac{7^{x+2}+7^x}{50+7^x})$ को मान कति हुन्छ ?

- a. 0 b. 1 c. 2 d. 3
44. Find the probability of 1,3 or 5 when a dice is rolled once.

(एउटा डाइसलाई एक पटक उफार्दा १, ३ वा ५ पार्ने सम्भाव्यता पत्ता लगाउनुस्।)

- a. $\frac{1}{2}$ b. $\frac{1}{3}$ c. $\frac{2}{3}$ d. $\frac{3}{4}$
45. In the given circle, O is the center of circle. If $\angle OAB = 60^\circ$ and $\angle OCB = 60^\circ$, find the $\angle ABC$. (दिइएको वृत्तमा O वृत्तको केन्द्रबिन्दु हो। यदि $\angle OAB = 60^\circ$ र $\angle OCB = 60^\circ$ भए $\angle ABC$ को मान पत्ता लगाउनुस्?)
- a. 60° b. 90° c. 120° d. 150°



46. if $2^{x+1} - 2^x - 8 = 0$, what is the value of x?

(यदि $2^{x+1} - 2^x - 8 = 0$ मा x को मान कति हुन्छ?)

- a. 0 b. 1 c. 2 d. 3
47. A 2m tall person observes the angle of elevation of the top of a pole 62m which is in front of him and finds it to be 45° . Find the distance between the person and the pole. (२ मी. अग्लो मानिसले आफ्नो ठीक अगाडी रहेको ६२ मी. अग्लो एउटा खम्बाको टुप्पोमा हेर्दा 45° डिग्रीको उन्नतांश कोण पाएछ भने खम्बा र मानिसबीचको दुरी पत्ता लगाउनुस्।)
- a. 30m b. 45m c. 60m d. 75m

48. Two children were born from a married couple. What is the probability of born are son? (एउटा विवाहित दम्पतिबाट दुई बच्चाहरु जन्मएका थिए भने दुवै जना छोरा हुन सक्ने सम्भावना कति हुन्छ ?)

- a. $\frac{1}{2}$ b. $\frac{1}{4}$ c. $\frac{2}{3}$ d. $\frac{3}{4}$

49. If $\text{£}1 = \text{Rs.}135$ and $\text{\$}1 = 105$, then convert $\text{£}63$ into dollor.

(यदि $\text{£}1 = \text{Rs.}135$ र $\text{\$}1 = 105$ छ भने $\text{£}63$ लाई डलरमा रुपान्तरण गर्नुहोस्।)

- a. $\text{\$}70$ b. $\text{\$}81$ c. $\text{\$}85$ d. $\text{\$}90$

50. If the difference of mean and assumed mean $(\bar{X} - A) = 20$ and $\Sigma f = 15$, find $\Sigma f d$. (यदि एउटा अविच्छिन्न श्रेणीको

मध्यक र कल्पित मध्यकको अन्तर $(\bar{X} - A) = 20$ र $\Sigma f = 15$ भए $\Sigma f d$ पत्ता लगाउनुहोस् ।)

- a. 100 b. 200 c. 300 d. 400

51. If $n(U) = 80$, $n(A) = 50$, $n(B) = 30$ and $n(A \cap B) = 10$, then find $n(\overline{A \cap B})$. (यदि $n(U) = 80$, $n(A) = 50$, $n(B) = 30$ र $n(A \cap B) = 10$ छ भने $n(\overline{A \cap B})$ को मान निकाल्नुहोस् ।)

- a. 0 b. 10 c. 20 d. 70

52. The ratio of the sides of a triangle is 3:4:5 and perimeter is 12 cm. find the area of the triangle. (एउटा त्रिभुजको भुजाहरूको अनुपात ३:४:५ र परिमिती १२ से मी छ भने त्रिभुजको क्षेत्रफल पत्ता लगाउनुहोस् ।)

- a. 6cm^2 b. 9cm^2 c. 12cm^2 d. 16cm^2

53. Find the LCM of $a^4 + a^2b^2 + b^4$ and $a^3 + b^3$.

($a^4 + a^2b^2 + b^4$ र $a^3 + b^3$ को ल स पत्ता लगाउनुहोस् ?)

- a. $a^2b^2 + ab + 1$ b. $a^2b^2 - ab + 1$
c. $a^4 + a^2b^2 + b^4$ d. $(a+b)(a^4 + a^2b^2 + b^4)$

54. At what rate percent compound interest will Rs. 700 amount to Rs. 847 in 2 years? (कति प्रतिशत चक्रिय ब्याजदरले २ वर्षमा रु ७०० को मिश्रधन रु ८४७ हुन्छ ?)

- a. 5% b. 8% c. 10% d. 15%

55. if $\sqrt[3]{3x + 5} = 2$, what is the value of x?

(यदि $\sqrt[3]{3x + 5} = 2$ भए x को मान कति हुन्छ ?)

- a. 1 b. 2 c. 3 d. 4

56. The ratio of ages of two girls is 2:3. If the little girl is 12 years old, find age of elder girl. (दुई जना केटीहरूको उमेरको अनुपात २:३ छ। यदि सानाकेटी १२ वर्षकी भए ठुलीकेटीको उमेर पत्ता लगाउनुहोस् ?)

- a. 4 years b. 6 years c. 12 years d. 18 years

57. A village has a population 17640. If its population growth rate is 5%. Find its population before 2 years.

(एउटा गाउँको जनसंख्या १७६४० छ। यदि जनसंख्या वृद्धिदर ५ प्रतिशत भए उक्त गाउँको २ वर्ष अगाडिको जनसंख्या पत्ता लगाउनुहोस् ?)

- a. 13000 b. 14800 c. 16000 d. 16800

58. Three bags and five caps combined cost is Rs. 1825. Five bags and three caps cost is 2325. Find the cost of one bag and one cap. (तीनवटा भोला र पाँचवटा टोपीको संयुक्त मूल्य रु १८२५ पर्छ। पाँचवटा भोला र तीनवटा टोपीको मूल्य रु २३२५ पर्छ भने एउटा भोला र टोपीको मूल्य पत्ता लगाउनुहोस् ?)

- a. Rs. 400 & Rs. 125 b. Rs. 600 & Rs. 250
c. Rs. 300 & Rs. 75 d. Rs. 500 & Rs. 350

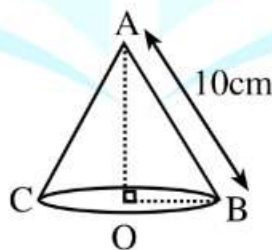
59. Find the total surface area of the hemisphere having radius 14cm. (१४ से मी अर्धव्यास भएको अर्धगोलाको पुरा सतहको क्षेत्रफल पत्ता लगाउनुहोस् ।)

- a. 616cm^2 b. 1232cm^2 c. 1848cm^2 d. 2464cm^2

60. If the base area of the given cone is 154cm^2 and $AB = 10\text{cm}$. Find its curved surface area.

(यदि दिइएको सोलीको आधारको क्षेत्रफल 154cm^2 र $AB = 10\text{cm}$ भए उक्त सोलीको वक्रसतहको क्षेत्रफल पत्ता लगाउनुहोस् ?)

- a. 220cm^2 b. 374cm^2 c. 447cm^2 d. 1540cm^2



ANSWERS

1.A	2.C	3.B	4.D	5.A	6.B	7.A	8.A	9.D	10.D
11.A	12.D	13.C	14.B	15.C	16.B	17.B	18.A	19.B	20.A
21.D	22.B	23.A	24.C	25.C	26.D	27.B	28.A	29.A	30.B
31.B	32.C	33.D	34.C	35.C	36.D	37.A	38.A	39.B	40.D
41.D	42.A	43.C	44.A	45.B	46.B	47.D	48.B	49.B	50.A
51.B	52.C	53.B	54.A	55.C	56.B	57.C	58.B	59.B	60.C