



NILACHAL EDUCATIONAL TRUST
ODISHA VIDYARATNA AWARD
CLASS – VIII

Time : 3 Hrs.

Full mark : 120

Instructions to the candidates :

- All questions are compulsory. Candidates should write the answers only in the blank space provided.
- Candidates are advised to attempt either the Odia medium or the English medium questions as per their choice.
- There will be no negative marking for any wrong answer.
- Do the rough works on the sheet attached at the end of question paper.

ENGLISH

A. DIRECT-INDIRECT SPEECH.

- Q1. Neha requested the teacher to repeat the question. Neha said to the teacher,
“ _____ you please repeat the question?”
- Q2. They said, ‘Let us come in’. They _____ that they might be allowed to come in.
- Q3. “I am unwell”, Pooja said. Pooja said that _____ was unwell.
- Q4. A father said, “God may save my daughter”. A father prayed that God _____ save his daughter.
- Q5. My teammate said, “Let us complete the work”. My teammate suggested that they _____ complete the work.
- Q6. The cricketer said, “Hurrah! We have won the match”. The cricketer exclaimed with _____ that they had won the match.
- Q7. Adipta said, “I have bought a book .” Adipta said that she _____ bought a book.
- Q8. Teacher said, “She is going to the picnic, isn’t she?” Teacher confirmed _____ she was going to the party or not. (Don’t use-if)

B. USE APPROPRIATE PREPOSITIONS.

- Q9. Books are great source _____ knowledge.
- Q10. Raj travelled all _____ the world when he turned twenty one.
- Q11. Men die _____ sleep.
- Q12. The sky is _____ the earth.
- Q13. The boat floats _____ the stream.
- Q14. This tea is exactly _____ my taste.
- Q15. Priyansh was thrown _____ his horse.
- Q16. I differ _____ you.

C. USE APPROPRIATE TENSES.

- Q17. The administration was clueless about the initiative taken to help the people _____ (suffer) from the drought.
- Q18. Which movie _____ (watch) on television when I called you?
- Q19. I _____ (read) the novel for the last two weeks.
- Q20. A while ago, an interesting discovery _____ (made) by archaeologists on the Aegean Island of Kec.
- Q21. The investigator couldn't find out what _____ (happen).
- Q22. The time _____ (come) when you shall hear me.
- Q23. The British Empire _____ (succeed) to the Mogul.
- Q24. The rain _____ (cease) yesterday.

D. PARTS OF SPEECH (Recognition)

- Q25. The sacking of the city was an epochal event.
Ans. : _____
- Q26. We're all set, but we need to table that topic for next time.
Ans. : _____
- Q27. A spy came to spy out the land.
Ans. : _____
- Q28. Birds of prey sometimes prey upon one another.
Ans. : _____
- Q29. It is wrong to wrong any one.
Ans. : _____
- Q30. A gold watch is one that is made of gold.
Ans. : _____
- Q31. The little boy can read a little by this time.
Ans. : _____
- Q32. They refuse to permit us to obtain the refuse permit.
Ans. : _____

E. VOCABULARY

- Q33. _____ (adj.) means one who pays careful attention.
- Q34. Baby ducks are called _____ (n).
- Q35. An _____ (adj.) is the person who does not know how to read and write.
- Q36. One having no horns is _____ (adj.).
- Q37. Antonym of losers is _____ (n).
- Q38. Synonym of the word "crack", starting with alphabet "b" is _____ (v).
- Q39. Those who take part in some events are called _____ (n).

Q40. A synonym of the word puzzle, starting with alphabet "r", is _____(n).

SCIENCE

Q1. ଜମିରେ ଫସଲ ସହିତ ବଢୁଥିବା ଅନାବଶ୍ୟକ ଉଦ୍ଭିଦକୁ _____ କୁହାଯାଏ ।

The undesired plants that grow along with the crop are called _____

Q2. ଅଣୁଜୀବର ମାପକୁ _____ ରୂପେ ପ୍ରକାଶ କରାଯାଏ ।

_____ is the unit to measure the microorganisms.

Q3. _____ ବସନ୍ତ ରୋଗର ନିରାକରଣ ପାଇଁ ଟିକା ଉଦ୍ଭାବନ କରିଥିଲେ ?

_____ has discovered the vaccine for small pox.

Q4. _____ ଏକ ଜୀବଗ୍ଣ ବଟିକାର ଉଦାହରଣ ଅଟେ ।

_____ is an example of antibiotic.

Q5. ଗହମର କଳଙ୍କି ରୋଗ _____ ବ୍ୟାଧିଜାତକ ଅଣୁଜୀବ ଦ୍ୱାରା ହୋଇଥାଏ ।

The rust in wheat is because of _____ pathogen.

Q6. ଅଡ଼ିଓ କ୍ୟାସେଟ୍ ର ଟେପ୍ _____ ପଲିଷ୍ଟରରେ ତିଆରି କରାଯାଏ ।

The tape of audio cassette is made up of _____ polyester.

Q7. ଟେରିଲିନର ଅନ୍ୟନାମ _____ ଅଟେ ।

Terylene is otherwise called as _____ .

Q8. _____ ପ୍ଲାଷ୍ଟିକ୍ ପୁନଃଚକ୍ରଣ ଅଯୋଗ୍ୟ ଅଟେ ।

_____ plastics are non-renewable.

Q9. _____ ପ୍ଲାଷ୍ଟିକ୍ ଅଗ୍ନି ନିରୋଧକ କପଡ଼ା ତିଆରି ପାଇଁ ବ୍ୟବହୃତ ହୋଇଥାଏ ।

_____ plastic is used to make the fire resistant clothes.

Q10. ଅଧାତୁ ଗୁଡ଼ିକର ଅକ୍ସାଇଡ୍ ଗୁଡ଼ିକ _____ ଅଟନ୍ତି.

The oxide of non-metals are _____ in nature.

Q11. ବର୍ତ୍ତମାନ ପକ୍କା ରାସ୍ତା ତିଆରିରେ _____ ବ୍ୟବହାର କରାଯାଉଛି ଯାହାକି _____ ଏକ ଉତ୍ପାଦ ।

Now a days the roads are made up of _____ and these are derived from _____ .

Q12. ଭୂତଳ ନଳଦ୍ୱାରା _____ ଓ _____ ଗ୍ୟାସ ବିତରଣ କରାଯାଏ ।

_____ and _____ gases are supplied by using the underground pipes.

Q13. ଧଳା ଫସ୍ଫରସ୍ କୁ ବାୟୁରେ ରଖିଲେ ଯେଉଁ ଦହନ ହୁଏ ତାହାକୁ _____ ଦହନ କୁହାଯାଏ ।

The burning of phosphorous in room temperature is called _____ combustion.

Q14. ୧ କିଲୋଗ୍ରାମ ଜୈବଗ୍ୟାସ ଦହନର କ୍ୟାଲୋରି ମୂଲ୍ୟ _____ ଅଟେ ।

The burning of 1 kilogram of biogas has _____ calorific value.

Q15. ଯେଉଁ କୋଷରେ ନ୍ୟଷ୍ଟିର ନ୍ୟଷ୍ଟିଝିଲ୍ଲା ନାହିଁ ତାହାକୁ _____ କୋଷ କୁହାଯାଏ ?

The nucleus of the cell which has no nuclear membrane is called as _____ .

Q16. IVF ର ଫୁଲଫର୍ମ କ'ଣ ?

_____ is the full form of IVF.

Q17. ପ୍ରତିରୂପାକରଣ ଅର୍ଥାତ୍ କ୍ଲୋନିଂ ଏକ _____ ପ୍ରକାରର ପ୍ରଜନନ ।

Cloning is a _____ mode of reproduction.

Q18. ମାଛ, ସ୍ଟାରଫିସ୍ ଭଳି ଜୀବମାନଙ୍କରେ ଯୁଗ୍ମଜ _____ ପ୍ରଣାଳୀରେ ହୋଇଥାଏ ।

In fishes and starfishes the zygote is formed by _____ mode of fertilisation.

Q19. ଯେଉଁ ପ୍ରାଣୀମାନେ ଶାବକ ଜନ୍ମ କରିଥାନ୍ତି, ସେମାନଙ୍କୁ _____ ପ୍ରାଣୀ କୁହାଯାଏ ।

The animals those who are giving birth to young ones are called as _____ animals.

Q20. _____ ଓ _____ କୋଷର ଆକୃତି ବଦଳାଇବାର ଦକ୍ଷତା ଥାଏ ।

_____ and _____ cell can change their shape.

Q21. ଏମିବାର ଶରୀରରୁ ଭିନ୍ନ ଦୈର୍ଘ୍ୟ ବିଶିଷ୍ଟ ପ୍ରବର୍ତ୍ତକୁ _____ କୁହାଯାଏ ।

The long extended part of Amoeba is called _____ .

Q22. ହାତୀ ଓ ମୂଷାର _____ କୋଷ ଦୀର୍ଘ ଓ ଶାଖା ପ୍ରଶାଖା ଯୁକ୍ତ ।

The _____ cell of the elephant and mouse are long and branched.

Q23. ନ୍ୟଷ୍ଟି ଭିତରେ ଥିବା ସୂତା ଭଳି ଅଂଶକୁ _____ କୁହାଯାଏ ।

The thread like structure found in the nucleus of the cell is called _____ .

Q24. ଅଣ୍ଡାରେ ଥିବା ଧଳା ପଦାର୍ଥକୁ ଗରମ କଲେ ତାହା କଠିନ ହୋଇଯାଏ । ସେହି ଧଳା ପଦାର୍ଥର ନାମ _____ .

The white part of egg becomes solid after boiling. This whitish part is called _____ .

Q25. ବଂଶ ଗତିର ଏକକକୁ _____ କୁହାଯାଏ ।

_____ is called as unit of inheritance.

Q26. ଏକ ଜୀବକ୍ରମ କୋଷରେ ଥିବା ତରଳ ପଦାର୍ଥକୁ _____ କୁହାଯାଏ ।

The living fluid inside the living cell is called _____ .

Q27. _____ ବହିରେ ବିପଦଗ୍ରସ୍ତ ଜାତିର ଉଦ୍ଧାର ଓ ପ୍ରାଣୀମାନଙ୍କର ନାମ ରହିଛି ।

_____ book is keeping the record of endangered plants and animals.

Q28. ପୃଥିବୀ ପୃଷ୍ଠରୁ ଲୋପ ପାଇବାର ଆଶଙ୍କା ଥିବା ଉଦ୍ଧାର ଓ ପ୍ରାଣୀଙ୍କୁ _____ କୁହାଯାଏ ।

The species which are going to be extinct from earth surface are called as _____ .

Q29. ହାଇଡ୍ରାରେ ଦେଖାଯାଉଥିବା ପ୍ରବର୍ତ୍ତକୁ _____ କୁହାଯାଏ ।

The short extention developed in Hydra is called _____ .

Q30. ଗୋଟିଏ ଜାତିର ପକ୍ଷୀ ନିଜର ପରିବେଶରୁ ଅନ୍ୟ ଏକ ସ୍ଥାନକୁ ଅଣ୍ଡା ଦେବା ପାଇଁ ସ୍ଥାନାନ୍ତର ହେବାକୁ _____ କହନ୍ତି ।

The birds those are shifting from one place to other to lay eggs are called _____ .

Q31. ପଲିମରର ପ୍ରତ୍ୟେକ ଅଂଶକୁ _____ କୁହାଯାଏ ।

The _____ is called unit of polymer.

Q32. ହଜଳା _____ ଦ୍ୱାରା ସୃଷ୍ଟି ହୋଇଥାଏ ।

_____ microbe causes cholera.

Q33. ମାଟିର ଉର୍ବରତା ବୃଦ୍ଧି ପାଇଁ ନୀଳ ହରିଡ଼ ଶୈବାଳ ବାୟୁମଣ୍ଡଳରୁ ସିଧାସଳଖ _____ ବିବନ୍ଧନ କରିଥାଆନ୍ତି । .

The blue green algae go through the atmospheric _____ cycle to increase the fertility of soil.

Q34. _____ ମ୍ୟାଲେରିଆ ଜ୍ୱର ଉତ୍ପତ୍ତିକାରୀ ଆଦିପ୍ରାଣୀର ବାହକ ।

_____ vector spreads malaria.

Q35. _____ ପେନିସିଲିନ୍ ଉଦ୍ଭାବନ କରିଥିଲେ ।

_____ has discovered penicillin.

Q36. କ୍ଷୀରକୁ ଦହିରେ ପରିଣତ କରିବାରେ _____ ନାମକ ଜୀବାଣୁ ସାହାଯ୍ୟ କରିଥାଏ ।

_____ bacteria converts the milk into curd.

Q37. _____ ନାମକ ମେସିନ୍ ଦ୍ୱାରା ଆଜିକାଲି ଉତ୍ତମ ଧାନ କାଟିବା ଓ ଉଡ଼ାଇବା କାର୍ଯ୍ୟ ହୋଇପାରୁଛି ।

_____ machine is used for harvesting of crops.

Q38. ସୋରିଷ ଏବଂ ରାଶି _____ ଫସଲର ଅନ୍ତର୍ଭୁକ୍ତ ।

Mustard and sesame are examples of _____ crops.

Q39. ଏନ୍. ପି. କେ ଏକ _____ ର ଉଦାହରଣ ।

N. P. K is an example of _____ .

Q40. _____ କୁ କୃତ୍ରିମ ଭଲ କୁହାଯାଏ ।

_____ is called as artificial wool.

MATHEMATICS

Q1. $\left(\frac{-7}{18} \times \frac{15}{-7}\right) - \left(1 \times \frac{1}{4}\right) + \left(\frac{1}{2} \times \frac{1}{4}\right) =$ _____ ।

$\left(\frac{-7}{18} \times \frac{15}{-7}\right) - \left(1 \times \frac{1}{4}\right) + \left(\frac{1}{2} \times \frac{1}{4}\right) =$ _____ .

Q2. ଦୁଇଟି ପରିମେୟ ସଂଖ୍ୟାର ଗୁଣଫଳ $\frac{-28}{81}$ । ଯଦି ଗୋଟିଏ ସଂଖ୍ୟା $\frac{14}{27}$ ହୁଏ ତେବେ ଅନ୍ୟ ସଂଖ୍ୟାଟି _____ ।

The product of two rational number is $\frac{-28}{81}$. If one number is $\frac{14}{27}$ the other number is _____ .

Q3. $\frac{-13}{5}$ ଏବଂ $\frac{12}{7}$ ର ସମଷ୍ଟିକୁ $\frac{-31}{7}$ ଏବଂ $\frac{-1}{2}$ ର ଗୁଣଫଳ ସହ ଭାଗ କଲେ ଉତ୍ତର _____ ହେବ ।

Divide the sum of $\frac{-13}{5}$ and $\frac{12}{7}$ by the product of $\frac{-31}{7}$ and $\frac{-1}{2}$. The answer is _____ .

Q4. 24 ଟି ଏକା ଭଳି ପୋଷାକ ତିଆରି କରିବା ପାଇଁ 54 ମି. କପଡ଼ା ଦରକାର ହେଲେ ଗୋଟିଏ ପୋଷାକ ତିଆରି କରିବା ପାଇଁ _____ ମି. ର କପଡ଼ା ଦରକାର ?

If 24 trousers of equal size can be prepared in 54 metres of cloth, _____ length of cloth is required for each trouser.

Q5. $a = 1$ ଏବଂ $b = \frac{1}{2}$ ହେଲେ $(5a^6) \times (-10ab^2) \times (-21a^2b^3)$ ର ମୂଲ୍ୟ _____ .

The value of $(5a^6) \times (-10ab^2) \times (-21a^2b^3)$ for $a = 1$ and $b = \frac{1}{2}$ is _____ .

Q6. $\frac{3}{2}x^2(x^2 - 1) + \frac{1}{4}x^2(x^2 + x) - \frac{3}{4}x(x^3 - 1) =$ _____

$\frac{3}{2}x^2(x^2 - 1) + \frac{1}{4}x^2(x^2 + x) - \frac{3}{4}x(x^3 - 1) =$ _____

Q7. ଯଦି $x^2 + \frac{1}{x^2} = 27$ ତେବେ $x - \frac{1}{x}$ ର ପରିମାଣ = _____ ।

If $x^2 + \frac{1}{x^2} = 27$ then the value of $x - \frac{1}{x} =$ _____ .

Q8. ଯଦି $4x^2 + y^2 = 40$ ଏବଂ $xy = 6$ ତେବେ $2x + y =$ _____ .

If $4x^2 + y^2 = 40$ and $xy = 6$ then the value of $2x + y =$ _____ .

Q9. ଯଦି $x^2 + y^2 = 29$ ଏବଂ $xy = -2$ ତେବେ $x^4 + y^4 =$ _____ .

If $x^2 + y^2 = 29$ and $xy = -2$, then the value of $x^4 + y^4 =$ _____ .

Q10. ଉତ୍ପାଦକରଣ : $100(x+y)^2 - 81(a+b)^2 =$ _____ .

Factorize : $100(x+y)^2 - 81(a+b)^2 =$ _____ .

Q11. ଉତ୍ପାଦକରଣ : $x^{16} - y^{16} + x^8 + y^8 =$ _____ .

Factorize : $x^{16} - y^{16} + x^8 + y^8 =$ _____ .

Q12. ଗୋଟିଏ 'n' ବାହୁ ବିଶିଷ୍ଟ ଉତ୍ତଳ ବହୁଭୁଜର _____ ଟି କର୍ଣ୍ଣ ଥାଏ ।

An 'n' sided convex polygon has _____ diagonals.

Q13. ଏକ ସୁସମ ବହୁଭୁଜର ପ୍ରତ୍ୟେକ ଅନ୍ତଃକୋଣର ପରିମାଣ 108° ହେଲେ ଏହାର ବାହୁ ସଂଖ୍ୟା = _____ .

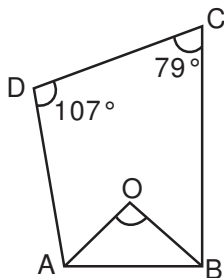
If measure of each angle of a regular polygon is 108° then the no. of sides of that polygon is _____ .

Q14. ଏକ ସୁସମ ବହୁଭୁଜର ପ୍ରତ୍ୟେକ ବହିଃସ୍ଥ କୋଣ ଏହାର ଅନ୍ତଃସ୍ଥ କୋଣର ଏକ ତୃତୀୟାଂଶ ହେଲେ ଏହାର ବାହୁ ସଂଖ୍ୟା _____ ।

The exterior angle of a regular polygon is one-third of its interior angle. Then the no. of side of the polygon is _____ .

Q15. ABCD ଚତୁର୍ଭୁଜରେ AO ଏବଂ BO ଯଥାକ୍ରମେ $\angle A$ ଏବଂ $\angle B$ ର ଅକ୍ଷର ସମଦ୍ୱିଖଣ୍ଡକ ତେବେ $\angle AOB =$ _____ .

In a quadrilateral ABCD, AO and BO are the bisector of $\angle A$ and $\angle B$, respectively, then the measurement of $\angle AOB =$ _____ .



Q16. ଏକ ଉତ୍ତଳ ଷଡ଼ଭୁଜରେ ଅକ୍ଷର କୋଣ ଗୁଡ଼ିକର ପରିମାଣ ଯଥାକ୍ରମେ x° , $(x-5)^\circ$, $(x-5)^\circ$, $(2x-5)^\circ$, $(2x-5)^\circ$, $(2x+20)^\circ$ ତେବେ $x =$ _____ .

The interior angles of a convex hexagon are x° , $(x-5)^\circ$, $(x-5)^\circ$, $(2x-5)^\circ$, $(2x-5)^\circ$, $(2x+20)^\circ$ respectively then $x =$ _____ .

Q17. $\left(\frac{3}{4} - \frac{2}{3}\right)$ ରୁ _____ ବିୟୋଗ କଲେ $-\frac{1}{6}$ ମିଳେ ।

_____ should be subtract from $\left(\frac{3}{4} - \frac{2}{3}\right)$ to get $-\frac{1}{6}$.

Q18. $(-24)^{-1}$ କୁ _____ ଦ୍ୱାରା ଭାଗ କଲେ ଭାଗଫଳ $(3)^{-1}$ ମିଳେ ।

With _____ should $(-24)^{-1}$ be divided so that the quotient may be $(3)^{-1}$.

Q19. $\frac{25 \times a^{-4}}{5^{-3} \times 10 \times a^{-8}} =$ _____ .

Simplify : $\frac{25 \times a^{-4}}{5^{-3} \times 10 \times a^{-8}} =$ _____ .

Q20. $\left(\frac{2}{9}\right)^3 \times \left(\frac{2}{9}\right)^{-6} = \left(\frac{2}{9}\right)^{2m-1}$ ତେବେ $m =$ _____ .

$\left(\frac{2}{9}\right)^3 \times \left(\frac{2}{9}\right)^{-6} = \left(\frac{2}{9}\right)^{2m-1}$, then $m =$ _____ .

Q21. ଗୋଟିଏ ଲୋହିତ ରକ୍ତ କଣିକାର ଦୈର୍ଘ୍ୟ 0.000007 ମି. ଏବଂ ଏକ ଉଦ୍ଭିଦ କୋଷର ଦୈର୍ଘ୍ୟ 0.00001275 ମି. ହେଲେ ସେମାନଙ୍କ ଦୈର୍ଘ୍ୟର ଅନୁପାତ _____ ।

The size of a red blood cell is 0.000007 m and the size of a plant cell is 0.00001275 m. The approx. ratio between is _____ .

Q22. 3.61492×10^6 ର usual form / ସାଧାରଣ ରୂପ = _____ .

The usual form of 3.61492×10^6 is = _____ .

Q23. ଯଦି $x = \left(\frac{3}{2}\right)^2 \times \left(\frac{2}{3}\right)^{-4}$ ତେବେ x^{-2} ର ପରିମାଣ = _____ ।

If $x = \left(\frac{3}{2}\right)^2 \times \left(\frac{2}{3}\right)^{-4}$ then the value of x^{-2} is = _____ .

Q24. 7.54×10^{-4} ର usual form / ସାଧାରଣ ରୂପ = _____ .

The usual form of 7.54×10^{-4} is = _____ .

Q25. $(4^{-1} \times 8^{-1}) \div \left(\frac{2}{3}\right)^{-1} =$ _____ .

Simplify : $(4^{-1} \times 8^{-1}) \div \left(\frac{2}{3}\right)^{-1} =$ _____ .

Q26. $(\sqrt{3}a^4 + 2\sqrt{3}a^3 + 3a^2 - 6a)$ କୁ $3a$ ଦ୍ୱାରା ଭାଗକଲେ ଭାଗଫଳ _____ ହେବ ।

Divide $(\sqrt{3}a^4 + 2\sqrt{3}a^3 + 3a^2 - 6a)$ by $3a$ then quotient is = _____ .

Q27. ଯଦି $2x + 3y = 14$ ଏବଂ $2x - 3y = 2$ ତେବେ $xy =$ _____ .

If $2x + 3y = 14$ and $2x - 3y = 2$ then the value of $xy =$ _____ .

Q28. $(-x^6 + 2x^4 + 4x^3 + 2x^2)$ କୁ $\sqrt{2}x^2$ ଦ୍ୱାରା ଭାଗକଲେ ଭାଗଫଳ _____ ହେବ ।

Divide $(-x^6 + 2x^4 + 4x^3 + 2x^2)$ by $\sqrt{2}x^2$ then the quotient is = _____ .

Q29. ଉତ୍ପାଦକରଣ : $a^{12}x^4 - a^4x^{12} =$ _____ .

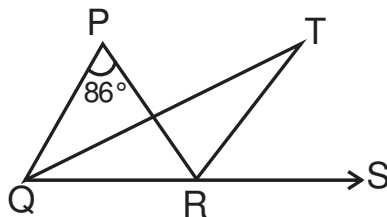
Factorise : $a^{12}x^4 - a^4x^{12} =$ _____ .

Q30. $x^{4a} + x^{2a}y^{2b} + y^{4b}$ କୁ $x^{2a} + x^ay^b + y^{2b}$ ଦ୍ୱାରା ଭାଗକଲେ ଭାଗଫଳ _____ ହେବ ।

Divide $x^{4a} + x^{2a}y^{2b} + y^{4b}$ by $x^{2a} + x^ay^b + y^{2b}$ then the quotient is = _____ .

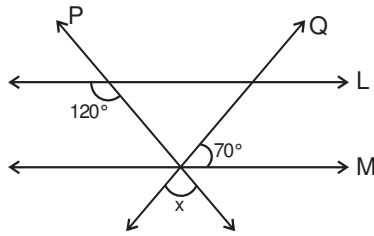
Q31. ନିମ୍ନଲିଖିତରେ $\angle PQR$ ଏବଂ $\angle PRS$ ର ଅନ୍ତଃ ସମଦ୍ୱିଖଣ୍ଡକ T ବିନ୍ଦୁରେ ଛେଦ କରନ୍ତି, ତେବେ $\angle QTR =$ _____ .

In the given figure, the bisector of $\angle PQR$ and $\angle PRS$ meet at a point T. Then find $\angle QTR =$ _____ .



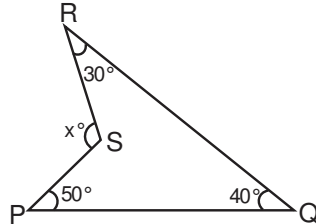
Q32. ନିମ୍ନଲିଖିତ ଚିତ୍ରରେ ଯଦି $L \parallel M$ ହୁଏ, ତେବେ $x =$ _____ .

In the given fig. if $L \parallel M$ then the value of x is = _____ .



Q33. ଦିଆଯାଇଥିବା ଚିତ୍ରରେ x ର ପରିମାଣ = _____ ।

In the given figure of x is = _____ .



Q34. ଯଦି $x + \frac{1}{x} = \sqrt{5}$ ତେବେ $x^4 + \frac{1}{x^4}$ ର ପରିମାଣ _____ ।

If $x + \frac{1}{x} = \sqrt{5}$ then the value of $x^4 + \frac{1}{x^4}$ = _____ .

Q35. ଯଦି $5x - 4y = 15$ ଏବଂ $xy = 3$ ହୁଏ, ତେବେ $25x^2 + 16y^2$ ର ମୂଲ୍ୟ = _____ ।

If $5x - 4y = 15$ and $xy = 3$ then the value of $25x^2 + 16y^2$ = _____ .

Q36. ଯଦି $x^2 + \frac{1}{x^2} = 66$ ତେବେ $x - \frac{1}{x}$ ର ମୂଲ୍ୟ = _____ ।

If $x^2 + \frac{1}{x^2} = 66$ then the value of $x - \frac{1}{x}$ = _____ .

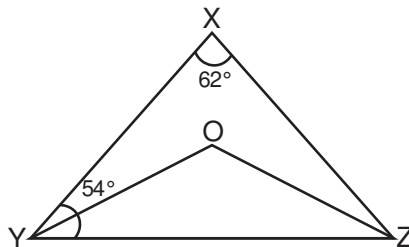
Q37. ଯଦି $64^{2x-5} = 4 \times 8^{x-5}$ ତେବେ x ର ମୂଲ୍ୟ _____ ।

If $64^{2x-5} = 4 \times 8^{x-5}$ then the value of x = _____ .

Q38. $\left(\frac{12^{\frac{1}{5}}}{27^{\frac{1}{5}}}\right)^{\frac{5}{2}} = \frac{1}{x}$.

Q39. ଦିଆଯାଇଥିବା ଚିତ୍ରରେ $\angle X = 62^\circ$, $\angle XYZ = 54^\circ$ ଯଦି YO ଏବଂ ZO ଯଥାକ୍ରମେ $\angle XYZ$ ଏବଂ $\angle XZY$ ର ଅନ୍ତଃସମଦ୍ୱିଖଣ୍ଡକ ହୁଏ ତେବେ $\angle OZY =$ _____ ଏବଂ $\angle YOZ =$ _____ ।

In the given figure $\angle X = 62^\circ$, $\angle XYZ = 54^\circ$. If YO and ZO are the bisector of $\angle XYZ$ and $\angle XZY$ respectively the value of $\angle OZY$ _____ and $\angle YOZ =$ _____ .



Q40. ଏକ ତ୍ରିଭୁଜର ଏକ ବହିଷ୍କୃତ କୋଣର ପରିମାଣ 105° । ଏହାର ଅନ୍ୟ ଦୁଇଟି କୋଣ ଦ୍ୱୟ ସମପରିମାଣର । ତେବେ ଏହି ପ୍ରତ୍ୟେକ କୋଣର ମୂଲ୍ୟ = _____ ।

An exterior angle of a triangle is 105° and its two interior opposite angles are equal. Then measure of each interior opposite angles is _____ .

□ □ □

SAMPLE