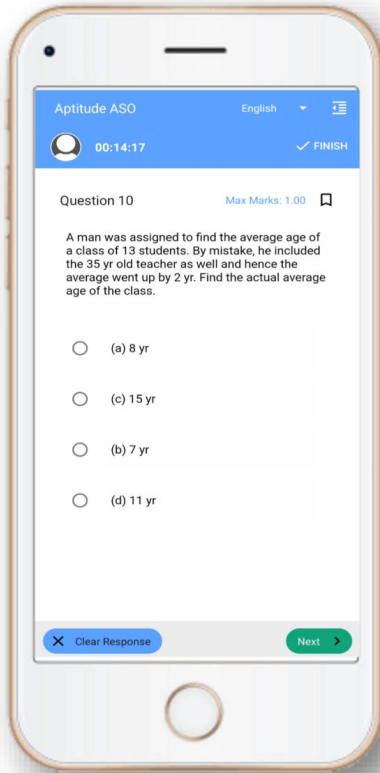


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PART-I

ARITHMETIC: 30 Marks

Instructions: Each question under this section carries ONE mark. Please read each question carefully and answer them by selecting the right one out of the multiple answers given below each as A, B, C & D.

1. Present ages of Arpita and Sonali are in the ratio of 7 : 9. Three years hence the ratio of their ages becomes 4 : 5. What is Sonali's present age in years?
ଅର୍ପିତା ଓ ସୋନାଲିର ବର୍ତ୍ତମାନ ବୟସର ଅନୁପାତ 7:9 ଅଟେ । ତିନିବର୍ଷ ପରେ ସୋନାଲିର ବୟସର ଅନୁପାତ 4:5 ହେବ । ସୋନାଲିର ବର୍ତ୍ତମାନ ବୟସ କେତେ ବର୍ଷ ?
(A) 9 (B) 18 (C) 27 (D) 36
2. In what time Rs. 1500 will become Rs. 1815 at the rate of simple interest of 7% per annum?
ବାର୍ଷିକ ସରଳସୁଧ ଶତକଡା 7 ହାରରେ 1500 ଟଙ୍କା କେତେ ସମୟରେ 1815 ଟଙ୍କା ହେବ ?
(A) $1\frac{1}{2}$ years (B) 2 years (C) $2\frac{1}{2}$ years (D) 3 years
3. What will be the difference between compound interest and simple interest on Rs. 1200 for two years at 5% per annum?
ବାର୍ଷିକ ଶତକଡା 5 ହାରରେ 1200 ଟଙ୍କାର ଦୁଇ ବର୍ଷରେ ଚକ୍ରବୃଦ୍ଧି ସୁଧ ଓ ସରଳସୁଧର ଅନ୍ତର କେତେ ହେବ ?
(A) Rs. 3 (B) Rs. 4 (C) Rs. 6 (D) Rs. 8
4. Which of the following numbers will fill the gap in the series 1, 9, 25, 49, _____, 121?
1, 9, 25, 49, -----, 121 ଅନୁକ୍ରମର ଶୂନ୍ୟସ୍ଥାନରେ କେଉଁ ସଂଖ୍ୟା ରହିବ ?
(A) 64 (B) 81 (C) 100 (D) 144
5. The product of two numbers is 96 and their difference is 10. What is the sum of the two numbers?
ଦୁଇଟି ସଂଖ୍ୟାର ଗୁଣଫଳ 96 ଓ ସୋନାଲିର ଅନ୍ତରଫଳ 10 ଅଟେ । ତେବେ ସଂଖ୍ୟା ଦୁଇଟିର ଯୋଗଫଳ କେତେ ?
(A) 16 (B) 22 (C) 32 (D) 36
6. The sum of two numbers is equal to 30 and their difference is 6. What is the ratio of the two numbers?
ଦୁଇଟି ସଂଖ୍ୟାର ଯୋଗଫଳ 30 ଓ ସୋନାଲିର ଅନ୍ତରଫଳ 6 ଅଟେ । ସଂଖ୍ୟା ଦୁଇଟିର ଅନୁପାତ କେତେ ?
(A) 8 : 7 (B) 5 : 1 (C) 3 : 2 (D) 2 : 1
7. What is the sum of $6 + 7 + 8 + \dots + 16$?
 $6 + 7 + 8 + \dots + 16$ ର ଯୋଗଫଳ କେତେ ?
(A) 105 (B) 120 (C) 121 (D) 136

8. If the perimeter of an equilateral triangle is 24m, then find out its area?

ଯଦି ଗୋଟିଏ ସମବାହୁ ତ୍ରିଭୁଜର ପରିସୀମା 24 ମି. ହୁଏ, ତେବେ ଏହାର କ୍ଷେତ୍ରଫଳ କେତେ ?

- (A) $8\sqrt{4}m^2$ (B) $9\sqrt{3}m^2$ (C) $12\sqrt{3}m^2$ (D) $16\sqrt{3}m^2$

The area of a rectangular field is $18000m^2$. The ratio of its length and breadth is 5 : 4. Find out the length and breadth of the field respectively?

ଗୋଟିଏ ଆୟତାକାର ପଡିଆର କ୍ଷେତ୍ରଫଳ 18000 ବର୍ଗ.ମି. । ଏହାର ଦୈର୍ଘ୍ୟ ଓ ପ୍ରସ୍ଥର ଅନୁପାତ 5:4 । ପଡିଆର ଦୈର୍ଘ୍ୟ ଓ ପ୍ରସ୍ଥ ଯଥାକ୍ରମେ କେତେ ?

- (A) 200m, 90m (B) 300m, 60m (C) 150m, 120m (D) 180m, 100m

10. How many small cubical blocks of side 6cm can be cut from a cubical block whose each side measures 24cm?

24 ସେ.ମି. ବାହୁବିଶିଷ୍ଟ ଗୋଟିଏ ସମଘନାକାର ପଦାର୍ଥକୁ କେତେ ଗୋଟି 6 ସେ.ମି. ବାହୁବିଶିଷ୍ଟ ଛୋଟ ସମଘନାକାର ପଦାର୍ଥରେ କଟାଯାଇପାରିବ ?

- (A) 64 (B) 56 (C) 48 (D) 36

If the radius of a sphere is doubled, then its surface area is increased by _____?

ଯଦି ଗୋଟିଏ ଗୋଲକର ବ୍ୟାସାର୍ଦ୍ଧକୁ ଦୁଇଗୁଣ କରାଯାଏ, ତେବେ ଏହାର ପୃଷ୍ଠତଳର କ୍ଷେତ୍ରଫଳ କେତେ ବୃଦ୍ଧି ହେବ ?

- (A) 300% (B) 200% (C) 100% (D) 50%

$\sqrt[3]{-729} \times \sqrt{441} = \underline{\hspace{2cm}} ?$

- (A) -99 (B) -121 (C) -189 (D) 189

13. What is the smallest number to be added to 1000 to make the sum divisible by both 22 and 6?

1000 ରେ କେଉଁ ସ୍ୱତନ୍ତ୍ର ସଂଖ୍ୟା ଯୋଗକଲେ ଯୋଗଫଳ ଉଭୟ 22 ଓ 6 ଦ୍ୱାରା ବିଭାଜ୍ୟ ହେବ ?

- (A) 56 (B) 56 (C) 46 (D) 66

14. The difference of two numbers is 25% of the greater number. If the smaller number is 30. What is the greater number?

ଦୁଇଟି ସଂଖ୍ୟାର ଅନ୍ତରଫଳ, ବଡ଼ ସଂଖ୍ୟାର ଶତକଡ଼ା 25 ଅଟେ । ସାନ ସଂଖ୍ୟାଟି 30 ହେଲେ, ବଡ଼

- (A) 35 (B) 40 (C) 50 (D) 60

15. $(0.031)^2 = \underline{\hspace{2cm}} ?$

- (A) 0.961 (B) 0.0961 (C) 0.00961 (D) 0.000961

16. The difference between the squares of two consecutive numbers is 25. What are those numbers?

ଦୁଇଟି କ୍ରମାଗତ ସଂଖ୍ୟାର ବର୍ଗର ଅନ୍ତର 25 ଅଟେ । ତେବେ ସଂଖ୍ୟା ଦ୍ୱୟ କେତେ ?

- (A) 11, 12 (B) 12, 13 (C) 13, 14 (D) 14, 15

17. Find out the ratio of the LCM and HCF of 32 and 48.

32 ଓ 48 ର ଲ.ସା.ଗୁ. ଓ ଗ.ସା.ଗୁ. ର ଅନୁପାତ କେତେ ?

- (A) 6 : 1 (B) 4 : 3 (C) 3 : 2 (D)

18. What is the value of $\frac{1}{\sqrt{9}-\sqrt{8}}$?

$\frac{1}{\sqrt{9}-\sqrt{8}}$ ର ମୂଲ୍ୟ କେତେ ?

- (A) $\frac{1}{2}(3 - 2\sqrt{2})$ (B) $\frac{1}{3+2\sqrt{2}}$ (C) $3 - 2\sqrt{2}$ (D) $3 + 2\sqrt{2}$

19. Which of the following numbers is the greatest?

ନିମ୍ନଲିଖିତ ସଂଖ୍ୟାମାନଙ୍କ ମଧ୍ୟରୁ କେଉଁଟି ବୃହତ୍ତମ ?

- (A) $(0.2)^2$ (B) $1 \div 0.2$ (C) $\frac{1}{4}$ (D) $\sqrt{0.36}$

20. If the given two numbers are respectively 6% and 24% of a third number, then what percentage is the first number of the second number?

ଯଦି ପ୍ରଥମ ଦୁଇଟି ସଂଖ୍ୟା, ତୃତୀୟ ସଂଖ୍ୟାର ଯଥାକ୍ରମେ ଶତକଡ଼ା 6 ଏବଂ ଶତକଡ଼ା 24 ହୁଏ, ତେବେ ପ୍ରଥମ ସଂଖ୍ୟାଟି ଦ୍ୱିତୀୟ ସଂଖ୍ୟାର ଶତକଡ଼ା କେତେ ?

- (A) 15% (B) 20% (C) 25% (D) None of these

21. The average of six numbers is 9. If the average of first five of these numbers is 8, what is the sixth number?

ଛଅଟି ସଂଖ୍ୟାର ହାରାହାରି 9 ଅଟେ । ଯଦି ସଂଖ୍ୟାମାନଙ୍କ ମଧ୍ୟରୁ ପ୍ରଥମ ପାଞ୍ଚଟି ସଂଖ୍ୟାର ହାରାହାରି 8 ହୁଏ, ତେବେ ଷଷ୍ଠ ସଂଖ୍ୟାଟି କେତେ ?

- (A) 11 (B) 12 (C) 13 (D) 14

22. An amount of Rs. 1050 is distributed among A, B and C in the ratio of 2 : 5 : 8. What is the difference between the shares of C and B?

1050 ଟଙ୍କାକୁ A, B ଓ C ମଧ୍ୟରେ 2 : 5 : 8 ଅନୁପାତରେ ବାଣ୍ଟି ଦିଆଯାଏ । C ଓ B ର ଭାଗର ଅନ୍ତର କେତେ ?

- (A) Rs. 70 (B) Rs. 140 (C) Rs. 210 (D) Rs. 280

23. A and B enters into a partnership investing Rs. 15000 and 20000 respectively. If at the end of the year, the amount of profit earned is Rs 14000, what will be the shares of profit of A and B?

A ଓ B ଦୁଇ ଜଣ ଅଂଶୀଦାର ଭାବରେ ଗୋଟିଏ ବ୍ୟବସାୟରେ ଯଥାକ୍ରମେ 15000 ଟଙ୍କା ଓ 20,000 ଟଙ୍କା ପୁଞ୍ଜି ନିବେଶ କଲେ । ଯଦି ବର୍ଷ ଶେଷରେ 14000 ଟଙ୍କା ଲାଭ ହୁଏ, ତେବେ A ଓ B ର ଲାଭାଂଶ କେତେ ?

- (A) Rs. 6000, Rs. 8000 (B) Rs. 7000, Rs. 7000
(C) Rs. 5000, Rs. 9000 (D) Rs. 4000, Rs. 10000

6

24. If the cost price of 24 eggs is equal to the selling price of 20 eggs, then what would be the percentage of gain or loss in this transaction?

- (A) $16\frac{2}{3}\%$ gain (B) 20% gain (C) $16\frac{2}{3}\%$ loss (D) 20% loss

ଯଦି 24 ଟି ଅଣ୍ଡର କ୍ରୟମୂଲ୍ୟ 20 ଟି ଅଣ୍ଡର ବିକ୍ରୟ ମୂଲ୍ୟ ସହ ସମାନ ହୁଏ, ତେବେ ଏହି କିଣାବିକାରେ ଶତକଡ଼ା କେତେ ଲାଭ ବା କ୍ଷତି ହେବ ?

- (A) $16\frac{2}{3}\%$ ଲାଭ (B) 20% ଲାଭ (C) $16\frac{2}{3}\%$ କ୍ଷତି (D) 20% କ୍ଷତି

25. A and B complete the job in 16 days, while A, B and C can complete it in 12 days. In how many days C alone can finish the job?

A ଓ B ଗୋଟିଏ କାର୍ଯ୍ୟକୁ 16 ଦିନରେ ଶେଷ କରି ପାରନ୍ତି, ଯେତେବେଳେ A, B ଓ C ଏହି କାର୍ଯ୍ୟକୁ 12 ଦିନରେ ଶେଷ କରିପାରନ୍ତି । ତେବେ C ଏକାକୀ କାର୍ଯ୍ୟଟିକୁ କେତେ ଦିନରେ ଶେଷ କରିପାରିବେ ?

- (A) 24 (B) 32 (C) 36 (D) 48

26. Two taps can fill a tank in 10 hours and 15 hours respectively. If both the taps are opened together, how much time will they take to fill the tank?

ଦୁଇଟି ପାଣି ନଳ ଗୋଟିଏ ଟ୍ୟାଙ୍କକୁ ଯଥାକ୍ରମେ 10 ଘଣ୍ଟା ଓ 15 ଘଣ୍ଟାରେ ପୂର୍ଣ୍ଣ କରିପାରନ୍ତି । ଯଦି ଦୁଇଟି ପାଣିନଳକୁ ଏକାଠି ଖୋଲି ଦିଆଯାଏ, ତେବେ ଟ୍ୟାଙ୍କଟି ପୂର୍ଣ୍ଣ ହେବାକୁ କେତେ ସମୟ ଲାଗିବ ?

- (A) 8 hours (B) 7.5 hours (C) 6 hours (D) 5 hours

A train travels 300 Km in 2.5 hours and 450 Km in 5 hours. Find out the average speed of the train?

ଗୋଟିଏ ଟ୍ରେନ୍ 2.5 ଘଣ୍ଟାରେ 300 କି.ମି. ଓ 5 ଘଣ୍ଟାରେ 450 କି.ମି. ଅତିକ୍ରମ କରେ । ଟ୍ରେନ୍‌ଟିର ହାରାହାରି ବେଗ କେତେ ?

- (A) 10 Km/h (B) 50 Km/h (C) 100 Km/h (D) 125 Km/h

A boatman can row 3 Km against the current of the stream in 30 minutes and return in 20 minutes. Find out the speed of the current?

ଜଣେ ନାଉରୀ ଝରଣା ପ୍ରତିକ୍ରମରେ 30 ମିନିଟ୍‌ରେ 3 କି.ମି. ଆହୁଲା ମାରିପାରନ୍ତି ଓ 20 ମିନିଟ୍‌ରେ ଫେରିପାରନ୍ତି । ପ୍ରୋତର ବେଗ କେତେ ?

- (A) 7.5 Km/h (B) 5 Km/h (C) 2.5 Km/h (D) 1.5 Km/h

The ratio of speed of a car, a truck and a bus is $5 : 2 : 3$. The average speed of the car, truck and bus together is 60 Km/h. What is the average speed of the car and truck together?

ଏକ କାର, ଏକ ଟ୍ରକ୍ ଓ ଏକ ବସର ବେଗର ଅନୁପାତ 5:2:3 । କାର, ଟ୍ରକ୍ ଓ ବସର ଏକତ୍ର ଭାବରେ ହାରାହାରି ବେଗ ଘଣ୍ଟାକୁ 60 କି.ମି । କାର ଓ ଟ୍ରକ୍‌ର ଏକତ୍ର ଭାବରେ ହାରାହାରି ବେଗ କେତେ ?

- (A) 63 Km/h (B) 72 Km/h
(C) 45 Km/h (D) can not be determined

Zinc and copper are in the ratio of 6 : 5 in 220 gm of an alloy. How much gm of copper can be added so as to make it in the ratio of 5 : 6?

220 ଗ୍ରାମ୍ ମିଶ୍ରଧାତୁରେ ଢ଼ାଣ୍ଡା ଏବଂ ତମ୍ବାର ଅନୁପାତ 6:5 ଅଟେ । ସେଥିରେ ଆଉ କେତେ ଗ୍ରାମ୍ ତମ୍ବା ମିଶାଇଲେ , ମିଶ୍ରଧାତୁରେ ଢ଼ାଣ୍ଡା ଏବଂ ତମ୍ବାର ଅନୁପାତ 5:6 ହେବ ?

- (A) 20 (B) 44 (C) 60 (D) 72

PART – II

ENGLISH LANGUAGE : 10 Marks

Instructions: Each question under this section carries **ONE** mark. Please read the instructions carefully and answer the questions by selecting the most appropriate answers out of the multiple answers given below each as A, B, C & D.

31. They have postponed the meeting because of bad weather.
(Choose the correct phrasal verb of the underlined word)
- (A) put up
(B) put on
(C) put down
(D) put off
32. Which of the following sentences is grammatically correct?
- (A) Ganges is considered holy by the Hindus.
(B) The Ganges is considered holy by the Hindus.
(C) The Ganges are considered holy by the Hindus.
(D) The Ganges is considered holy by Hindus.
33. John Hawkins is _____ European.
(Fill in the blank with appropriate Article.)
- (A) an
(B) a
(C) the
(D) none of these
34. His writing is such that cannot be read.
(Substitute one word for the underlined words.)
- (A) legible
(B) ineligible
(C) illegible
(D) eligible

35. The word 'pessimist' means -
(A) A person who believes in the existence of God
(B) A person who does not believe in the existence of God
(C) A person who looks at the dark side of life or things
(D) A person who looks at the bright side of life or things
36. It rained cats and dogs yesterday.
(Choose the correct meaning of the underlined phrase)
(A) slowly (B) irregularly
(C) heavily (D) recently
37. The black cobra is a _____ snake.
(Fill in the blank with correct spelling of the word.)
(A) venomus (B) venomous
(C) vanomous (D) vanomus
38. The poultry _____ not been fed.
(Fill in the blank with correct form of verb.)
(A) has (B) is
(C) are (D) have
39. None but the brave deserves the fair.
(Choose the correct part of speech of the underlined word)
(A) noun
(B) pronoun
(C) preposition
(D) conjunction
40. Hari deals _____ rice and vegetables in the market.
(Fill in the blank with appropriate preposition.)
(A) with (B) on
(C) in (D) about

PART -III

ODIA LANGUAGE : 10 Marks

ନିର୍ଦ୍ଦେଶାବଳୀ : ଏହି ଭାଗର ପ୍ରତ୍ୟେକ ପ୍ରଶ୍ନର ସଠିକ୍ ଉତ୍ତର ପାଇଁ ଏକ ମାର୍କ ରହିଛି । ନିମ୍ନଲିଖିତ ପ୍ରଶ୍ନଗୁଡ଼ିକୁ ଯତ୍ନ ସହକାରେ ପଢ଼ନ୍ତୁ ଏବଂ ତା ତଳେ ଦିଆଯାଇଥିବା ଉତ୍ତର ମାନଙ୍କ ମଧ୍ୟରୁ ସଠିକ୍ ଉତ୍ତର ନିର୍ଣ୍ଣୟ କରନ୍ତୁ ।

41. ଶୁଦ୍ଧ ବନାନ ଥିବା ଶବ୍ଦଟି ବାଛି ।
 (A) ଅନୁସନ୍ଧାନ (B) ଅନୁସନ୍ଧାନ
 (C) ଅନୁସନ୍ଧାନ (D) ଅନୁସନ୍ଧାନ
42. “ତୁହି ମା’ ଜନମ ଭୂମି ପବିତ୍ର ଭାରତ ଭୂମି
 ଗୋହର ସନ୍ତାନ ଆମ୍ଭେ ଅଛୁଁ ସରବେ,”
 ଉପରୋକ୍ତ କବିତାଂଶଟି “ଜନ୍ମଭୂମି” କବିତାର ଏକ ଅଂଶ ଅଟେ । ଏହି କବିତା କିଏ ଲେଖିଥିଲେ ?
 (A) ମଧୁସୂଦନ ରାଓ (B) ମଧୁସୂଦନ ଦାସ
 (C) ରାଧାନାଥ ରାୟ (D) ଜଗନ୍ନାଥ ଦାସ
43. “Cigarette smoking is injurious to health” ଏହାର ସଠିକ୍ ଓଡ଼ିଆ ଅନୁବାଦ କ’ଣ ?
 (A) ଧୂମପାନ ଶରୀରପକ୍ଷେ କ୍ଷତିକାରକ ଅଟେ ।
 (B) ବିଡି ଓ ପାନ ଶରୀରପକ୍ଷେ କ୍ଷତିକାରକ ଅଟନ୍ତି ।
 (C) ଧୂମପାନ ଶରୀରପକ୍ଷେ କ୍ଷତିକାରକ ଅଟେ ।
 (D) ଉପରୋକ୍ତ ସମସ୍ତ ଉତ୍ତର ଠିକ୍ ଅଟେ ।
44. ସତ୍ତ୍ୱ ଦୁର୍ଭିକ୍ଷା ରୋକିବା ପାଇଁ କେଉଁ ସ୍ଲୋଗାନ (slogan) ବ୍ୟବହାର କରାଯାଏ ?
 (A) Better late than never
 (B) Speed thrills but kills
 (C) both A and B
 (D) None of these
45. ନିମ୍ନଲିଖିତ କେଉଁ ବାକ୍ୟଟି ବିବୃତିଯୁକ୍ତ ବାକ୍ୟ ଅଟେ ?
 (A) ବିଜୁବାବୁଙ୍କୁ ଓଡ଼ିଶାରେ ସମସ୍ତେ ଜାଣନ୍ତି ।
 (B) ବିଜୁବାବୁଙ୍କୁ ଓଡ଼ିଶାରେ କିଏ ନ ଜାଣେ ?
 (C) ବିଜୁବାବୁ ଓଡ଼ିଶାରେ କାହାକୁ ଅଜଣା ନୁହନ୍ତି ।
 (D) ବିଜୁବାବୁ ପୁଣି ଓଡ଼ିଶାରେ କାହାର ଅଜଣା !

46. “ସୀତାଙ୍କୁ ରାବଣ ଚୋରାଇ ନେବା ପରେ ରାମଚନ୍ଦ୍ର ବିସ୍ମୟ ହୋଇ ଇତସ୍ତତଃ ଅନୈଷଣ କଲେ ।”
(ଉପରୋକ୍ତ ବାକ୍ୟରେ ଥିବା ଭୂଲ୍ ଶବ୍ଦକୁ ବାଛ)
- (A) ରାମଚନ୍ଦ୍ର
(B) ବିସ୍ମୟ
(C) ଇତସ୍ତତଃ
(D) ଅନୈଷଣ
47. ନିମ୍ନଲିଖିତ ବାକ୍ୟଗୁଡ଼ିକ ମଧ୍ୟରୁ ଶୁଦ୍ଧ ବାକ୍ୟଟି ବାଛ ।
- (A) ସମ୍ବଲପୁରର ଶୀତଳକ୍ଷଣୀ ଯାତ୍ରା ଦେଖିବାକୁ ବହୁତ ଲୋକମାନେ ଆସିଥିଲେ ।
(B) ମନ୍ତ୍ରୀଙ୍କ ସଭାରେ ଆବାଳବୃଦ୍ଧ ବନିତାଗଣ ଯୋଗ ଦେଇଥିଲେ ।
(C) ସବୁ କବି ପ୍ରାକୃତିକ ବର୍ଷନାରେ ପିନ୍ଧିହୁଅନ୍ତୁ ।
(D) ଶିକ୍ଷୟତ୍ରୀ ପ୍ରତ୍ୟେକ ଛାତ୍ରମାନଙ୍କୁ ପ୍ରଶ୍ନ ପଚାରିଲେ ।
48. “ଅଲଗା କଥା ” ରୁଜ୍ଜିର ଅର୍ଥ କଣ ?
- (A) ବହୁ ଅବାଚର କଥା କହିବା
(B) ବୃଥା ଧମକ
(C) ଛୋଟ କଥାକୁ ବଡ଼ କରିବା
(D) ମୂଲ୍ୟହୀନ କଥା
49. ଠିକ୍ ଶବ୍ଦଟି ବାଛି ନିମ୍ନଲିଖିତ ବାକ୍ୟର ଶୂନ୍ୟ ସ୍ଥାନ ପୂରଣ କର ।
“ ପିଲାଟାର ମିଛ କଥା ଜଣା ପଡ଼ିଯିବାରୁ ବାପାଙ୍କ ଆଗରେ ସେ ----- ପତ୍ର ପରି ଥରୁଛି ।”
- (A) କଦଳୀ
(B) ବେଲ
(C) ବିଛୁଆଡ଼ି
(D) ବରତା
50. “ହଲିଲା ପାଣିରେ ଗୋଡ଼ ନ ଦେବା” ଲୋକବାଣୀର ଅର୍ଥ କଣ ?
- (A) ସାବଧାନ ହୋଇ କାମ କରିବା
(B) ଖୁବ୍ ସତର୍କତା ସହ କାମ କରିବା
(C) ଗଣ୍ଡଗୋଳରେ ନ ପଶିବା
(D) ଧୀର ହିର ଭାବେ କାର୍ଯ୍ୟ କରିବା

PART-IV

GENERAL AWARENESS : 20 Marks.

Instructions : Each question under this section carries ONE mark. Please read the instructions carefully and answer the questions by selecting the most appropriate answers out of the multiple answers given below each as A, B, C & D.

51. Which city of Gujarat has recently found place in World Heritage list of UNESCO as an ancient city of Harappan civilization?

(A) Patan

(B) Dholavira

(C) Champaner

(D) Ahmedabad

ନିକଟରେ ଗୁଜୁରାଟର କେଉଁ ସହର ହରପ୍ପା ସଭ୍ୟତାର ପ୍ରାଚୀନ ସହର ଭାବେ UNESCO ର ବିଶ୍ୱ ଐତିହ୍ୟ ତାଲିକାରେ ସ୍ଥାନ ପାଇଅଛି ?

(A) ପଟାନ

(B) ଢୋଲଭିରା

(C) ଚାମ୍ପାନର୍

(D) ଅହମଦାବାଦ

52. The landmass which is surrounded by water from three sides is called -

(A) Isthmus

(B) Atoll

(C) Peninsula

(D) Barrier reef

ଯେଉଁ ଭୂମିଖଣ୍ଡର ତିନିପାଖ ଜଳଦ୍ୱାରା ପରିବେଷିତ ହୋଇଥାଏ, ତାକୁ କ'ଣ କୁହାଯାଏ ?

(A) ଇଷ୍ଠମସ୍

(B) ଏଟୋଲ୍

(C) ପେନିନ୍ସୁଲା

(D) ବାରିଅର୍ ରିଫ୍

53. Who is the composer of National Anthem of India?

(A) Bankimchandra Chatterjee

(B) Aurobindo Ghosh

(C) Rabindranath Tagore

(D) Mohd. Iqbal

ଭାରତର ରାଷ୍ଟ୍ରୀୟ ସଂଗୀତର ରଚୟିତା କିଏ ?

(A) ବଙ୍କିମଚନ୍ଦ୍ର ଚାଟାର୍ଜୀ

(B) ଅରବିନ୍ଦ ଘୋଷ

(C) ରବିନ୍ଦ୍ରନାଥ ଟାଗୋର୍

(D) ମହମ୍ମଦ ଇକ୍ବାଲ୍

54. Who among the following can remove the Governor of a state from office?

(A) Legislative Assembly

(B) Parliament

(C) President

(D) Supreme Court

ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କିଏ ରାଜ୍ୟପାଳଙ୍କୁ ତାଙ୍କ ପଦବୀରୁ ବହିଷ୍କାର କରିପାରିବ ?

(A) ବିଧାନସଭା

(B) ସଂସଦ

(C) ରାଷ୍ଟ୍ରପତି

(D) ଉଚ୍ଚତମ ନ୍ୟାୟାଳୟ

55. Who are the two Silver Medal winners from India in Tokyo Olympics – 2020?

- (A) Mirabai Chanu and Bajrang Punia
 (B) Mirabai Chanu and Ravi Kumar Dahiya
 (C) Mirabai Chanu and Lovlina Borgohain
 (D) Mirabai Chanu and P. V. Sindhu

କେଉଁ ଦୁଇଜଣ ଭାରତୀୟ ଟୋକିଓ ଅଲିମ୍ପିକ୍-୨୦୨୦ ରେ ରୌପ୍ୟ ପଦକ ବିଜେତା ଥିଲେ ?

- (A) ମିରାବାଇ ଚାନୁ ଏବଂ ବଜରଙ୍ଗ ପୁନିଆ
 (B) ମିରାବାଇ ଚାନୁ ଏବଂ ରବି କୁମାର ଦାହିୟା
 (C) ମିରାବାଇ ଚାନୁ ଏବଂ ଲଭଲିନା ବୋର୍ଗୋହାୟ
 (D) ମିରାବାଇ ଚାନୁ ଏବଂ ପି. ଭି ସିନ୍ଧୁ

56. What type of missile is New Generation Akash Missile (Akash – NG)?

- (A) Surface to air missile
 (B) Air to air missile
 (C) Surface to surface missile
 (D) Intercontinental Ballistic missile

ନିମ୍ନ ଜେନେରେସନ୍ ଆକାଶ କ୍ଷେପଣାସ୍ତ୍ର (ଆକାଶ-ଏନ୍.ଜି) କେଉଁ ପ୍ରକାରର କ୍ଷେପଣାସ୍ତ୍ର ?

- (A) ଭୂମିରୁ ଆକାଶ କ୍ଷେପଣାସ୍ତ୍ର
 (B) ଆକାଶରୁ ଆକାଶ କ୍ଷେପଣାସ୍ତ୍ର
 (C) ଭୂମିରୁ ଭୂମି କ୍ଷେପଣାସ୍ତ୍ର
 (D) ମହାଦେଶ ରୁ ମହାଦେଶକୁ ପ୍ରକ୍ଷେପକ କ୍ଷେପଣାସ୍ତ୍ର

57. Which virus causes 'Bird Flu'?

- (A) H1N1 (B) H2N3 (C) H3N2 (D) H5N1

କେଉଁ ଭୂତାଣୁ 'Bird Flu' ର କାରଣ ଅଟେ ?

- (A) ଏଚ୍ୱଏନ୍୧ (B) ଏଚ୍ୱଏନ୍୩ (C) ଏଚ୍ୱଏନ୍୨ (D) ଏଚ୍ୱଏନ୍୫

58. Who is known as the father of White Revolution in India?

- (A) M. S. Swaminathan (B) Dr. Hiralal Chaudhury
 (C) Dr. Verghese Kurien (D) Dr. Arun Krishnan

କିଏ ଭାରତର ଶ୍ୱେତ ବିପ୍ଳବର ଜନକ ଭାବେ ପରିଚିତ ?

- (A) ଏମ୍. ଏସ୍. ସ୍ୱାମୀନାଥନ୍ (B) ଡଃ ହୀରାଲାଲ୍ ଚୌଧୁରୀ
 (C) ଡଃ ଭରଗୀଜ୍ କୁରିଏନ୍ (D) ଡଃ ଅରୁଣ କ୍ରିଷ୍ଣନ୍

59. M. S. P. relating to procurement of food grains is an abbreviation for which of the following? 13
- (A) Minimum Standard Price (B) Maximum Standard Price
(C) Minimum Support Price (D) Maximum Support Price
- ଖାଦ୍ୟଶସ୍ୟ ସଂଗ୍ରହ ସଂପର୍କିତ ଏମ୍.ଏସ୍.ପି ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କାହାର ସଂକ୍ଷେପଣ ?
- (A) ସର୍ବନିମ୍ନ ମାନକ ମୂଲ୍ୟ (B) ସର୍ବୋଚ୍ଚ ମାନକ ମୂଲ୍ୟ
(C) ସର୍ବନିମ୍ନ ସହାୟକ ମୂଲ୍ୟ (D) ସର୍ବୋଚ୍ଚ ସହାୟକ ମୂଲ୍ୟ
60. 'D.P.T.' vaccine stands for which of the following?
- (A) Diarrhoea – Pertussis - Typhoid (B) Diptheria – Pertussis - Tetanus
(C) Diptheria – Pneumonia - Typhoid (D) Diarrhoea – Pneumonia - Tetanus
- ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ “D.P.T.” ଟିକା କାହା ପାଇଁ ଉଦ୍ଦିଷ୍ଟ ?
- (A) ଡାଇରିଆ-ପର୍ଟୁସିସ୍-ଟାଇଫଏଡ୍ (B) ଡିପ୍ଥେରିଆ-ପର୍ଟୁସିସ୍-ଟିଟାନସ୍
(C) ଡିପ୍ଥେରିଆ-ନିମୋନିଆ-ଟାଇଫଏଡ୍ (D) ଡାଇରିଆ-ନିମୋନିଆ-ଟିଟାନସ୍
61. Who among the following was the first Odia writer to receive Jnanapitha Award?
- (A) Sitakanta Mohapatra (B) Sachidananda Routray
(C) Gopinath Mohanty (D) Prativa Ray
- ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ପ୍ରଥମ ଓଡ଼ିଆ ଲେଖକ ଜ୍ଞାନପୀଠ ପୁରସ୍କାର ପାଇଥିଲେ ?
- (A) ସୀତାକାନ୍ତ ମହାପାତ୍ର (B) ସଚ୍ଚିଦାନନ୍ଦ ରାଉତ୍ରରାୟ
(C) ଗୋପୀନାଥ ମହାନ୍ତି (D) ପ୍ରତିଭା ରାୟ
62. Which is the highest mountain peak of Odisha?
- (A) Gandhamardan (B) Mahendragiri (C) Deomali (D) Gorumahisani
- କେଉଁଟି ଓଡ଼ିଶାର ଉଚ୍ଚତମ ଗିରିଶୂଙ୍ଗ ଅଟେ ?
- (A) ଗନ୍ଧମାର୍ଦନ (B) ମହେନ୍ଦ୍ରଗିରି (C) ଦେଓମାଳି (D) ଗୋରୁମହିଶାଣୀ
63. Barehipani waterfall comes under which National Park/Wildlife Sanctuary?
- (A) Similipal National Park (B) Sunabeda Wildlife Sanctuary
(C) Bhitarkanika National Park (D) Tikarpada Wildlife Sanctuary
- ବରେହିପାଣି ଜଳପ୍ରପାତ କେଉଁ ରାଷ୍ଟ୍ରୀୟ ଉଦ୍ୟାନ/ବନ୍ୟପ୍ରାଣୀ ଅଭୟାରଣ୍ୟ ଅନ୍ତର୍ଭୁକ୍ତ ?
- (A) ସିମିଲିପାଳ ରାଷ୍ଟ୍ରୀୟ ଉଦ୍ୟାନ (B) ସୁନାବେଡା ବନ୍ୟପ୍ରାଣୀ ଅଭୟାରଣ୍ୟ
(C) ଭିତରକନିକା ରାଷ୍ଟ୍ରୀୟ ଉଦ୍ୟାନ (D) ଟିକରପଡା ବନ୍ୟପ୍ରାଣୀ ଅଭୟାରଣ୍ୟ

64. Tsunami is caused by which of the following?
 (A) Hurricane (B) Earthquake (C) Tornado (D) Thunderstorm
 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ସୁନାମିର କାରଣ ଅଟେ ?
 (A) ଡୋମ୍‌ନ (B) ଭୂମିକଂପ (C) ଘୂର୍ଣ୍ଣିବାତ୍ୟା (D) ଝଡ଼
65. Which district of Odisha is the largest producer of rice?
 (A) Koraput (B) Bolangir (C) Bargarh (D) Cuttack
 ଓଡ଼ିଶାର କେଉଁ ଜିଲ୍ଲାରେ ସର୍ବାଧିକ ଧାନ ଉତ୍ପାଦନ ହୁଏ ?
 (A) କୋରାପୁଟ (B) ବଲାଙ୍ଗିର (C) ବରଗଡ଼ (D) କଟକ
66. Which one of the following is the largest district of Odisha in terms of area?
 (A) Nayagarh (B) Mayurbhanj (C) Malkangiri (D) Cuttack
 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ ଓଡ଼ିଶାର କେଉଁ ଜିଲ୍ଲା କ୍ଷେତ୍ରଫଳ ଅନୁସାରେ ସବୁଠାରୁ ବଡ଼ ?
 (A) ନୟାଗଡ଼ (B) ମୟୂରଭଞ୍ଜ (C) ମାଲକାନଗିରି (D) କଟକ
67. Who was the founder of Satyabadi Bana Vidyalaya in Odisha?
 (A) Madhusudan Das (B) Madhusudan Rao
 (C) Subhash Chandra Bose (D) Gopabandhu Dash
 ଓଡ଼ିଶାର ସତ୍ୟବାଦୀ ବନ ବିଦ୍ୟାଳୟର ପ୍ରତିଷ୍ଠାତା କିଏ ?
 (A) ମଧୁସୂଦନ ଦାସ (B) ମଧୁସୂଦନ ରାଓ
 (C) ସୁଭାଷ ଚନ୍ଦ୍ର ବୋଷ (D) ଗୋପବନ୍ଧୁ ଦାଶ
68. 'National Voter's Day' is celebrated on which date?
 (A) 15th January (B) 25th January (C) 15th February (D) 25th February
 "ରାଷ୍ଟ୍ରୀୟ ଭୋଟରଦାତା ଦିବସ" କେଉଁ ତାରିଖରେ ପାଳନ କରାଯାଏ ?
 (A) ୧୫ ଜାନୁଆରୀ (B) ୨୫ ଜାନୁଆରୀ (C) ୧୫ ଫେବୃଆରୀ (D) ୨୫ ଫେବୃଆରୀ
69. Which Indian Olympian's autobiography is 'unbreakable'?
 (A) P. V. Sindhu (B) Sania Mirza (C) Mary Kom (D) Rani Rampal
 "ଅନ୍‌ବ୍ରେକେବଲ୍" କେଉଁ ଭାରତୀୟ ଅଲିମ୍ପିକ୍ ପ୍ରତିଯୋଗୀଙ୍କ ଆତ୍ମଚରିତ ?
 (A) ପି.ଭି ସିନ୍ଧୁ (B) ସାନିଆ ମିର୍ଜା (C) ମେରୀ କୋମ୍ (D) ରାନୀ ରାମପାଲ୍
70. How many emergency provisions are contained in Indian Constitution?
 (A) 1 (B) 2 (C) 3 (D) 4
 ଭାରତୀୟ ସମ୍ବିଧାନରେ ଜରୁରୀକାଳୀନ ପରିସ୍ଥିତି ସଂକ୍ରାନ୍ତରେ କେତୋଟି ବ୍ୟବସ୍ଥା ରହିଛି ?
 (A) ୧ (B) ୨ (C) ୩ (D) ୪

PART – V

15

PHYSICS: 15 Marks

Instructions: Each question under this section carries **ONE** mark. Please read the instructions carefully and answer the questions by selecting the most appropriate answers out of the multiple answers given below each as A, B, C & D.

71. Mass of an object is 30 Kg. What is its weight on the surface of the moon? $g = 9.8 \frac{m}{s^2}$
- (A) 98N (B) 9.8N
(C) 4.9N (D) 49N
72. Find out the energy in kWh consumed in 10 hours by four devices of power 500W each.
- (A) 20 (B) 10
(C) 5 (D) 2
73. A ball of mass 0.5Kg slows down from a speed of $5ms^{-1}$ to $3ms^{-1}$. Find out the change in kinetic energy of the ball.
- (A) -1J (B) -2J
(C) -4J (D) 4J
74. The frequency of a source of sound is 100Hz. How many times does it vibrate in a minute?
- (A) 3000 (B) 6000
(C) 600 (D) 100
75. Which of the following quantity determines the loudness of a sound wave?
- (A) Wavelength (B) Frequency
(C) Amplitude (D) None of these
76. Find out the focal length of a lens of power – 2.5 D.
- (A) -0.5m (B) -0.4m
(C) 0.5m (D) 0.4m
77. An electric bulb is rated 220V and 200W. When it is operated on 110V, the power consumed will be
- (A) 25W (B) 50W
(C) 100W (D) 200W

P.T.O.

78. The splitting of white light into its component colours is called
(A) dispersion (B) reflection
(C) refraction (D) None of these
79. Which is known as near- sightedness?
(A) Presbyopia (B) Myopia
(C) Hyper metropia (D) None of these
80. The device used for producing electric current is called a
(A) generator (B) galvanometer
(C) ammeter (D) motor
81. The presence of a magnetic field at a point can be detected by
(A) a strong magnet (B) a solenoid
(C) a compass needle (D) a current carrying wire
82. Which of the following is not an example of a bio-mass energy source?
(A) Wood (B) Gobar-gas
(C) Nuclear energy (D) Agricultural wastes
83. A train starting from rest attains a velocity of 72 Km/h in 5 minutes. Assuming that the acceleration is uniform, find out the distance travelled by the train for attaining this velocity.
(A) 1.5 Km (B) 3 Km
(C) 4.5 Km (D) 6 Km
84. An object of mass 100 Kg is accelerated uniformly from a velocity 4 ms^{-1} to 8 ms^{-1} in 8s. Find out the magnitude of the force exerted on the object.
(A) 5N (B) 15N
(C) 50N (D) 150N
85. A batsman hits a cricket ball which then rolls on a level ground. After covering a short distance, the ball comes to rest. The ball slows to stop because
(A) the batsman did not hit the ball hard enough.
(B) velocity is proportional to the force exerted on the ball.
(C) there is a force on the ball opposing the motion.
(D) there is no unbalanced force on the ball, so the ball would want to come to rest.

PART – VI

17

CHEMISTRY: 15 Marks

Instructions: Each question under this section carries ONE mark. Please read the instructions carefully and answer the questions by selecting the most appropriate answers out of the multiple answers given below each as A, B, C & D.

86. The only products of neutralization reaction are
(A) Salt and oxygen
(B) Salt and hydrogen
(C) hydrogen and oxygen
(D) Salt and Water
87. On adding water to sodium the solution formed is
(A) neutral (B) alkaline
(C) acidic (D) amphoteric
88. Which is not a greenhouse gas?
(A) CO₂ (B) CO
(C) CH₄ (D) N₂O
89. What is the mass of 2 moles of water molecules?
(A) 32gm (B) 34gm
(C) 36gm (D) 38gm
90. What is the change of gaseous state directly to solid state without going through the liquid state and vice versa?
(A) Melting (B) Freezing
(C) Evaporation (D) Sublimation
91. The force of attraction between same molecules is called as
(A) cohesive force (B) adhesive force
(C) electrostatic force (D) None of these
92. Metal which exists in liquid state at room temperature is
(A) Sodium (B) Potassium
(C) Calcium (D) Mercury

P.T.O.



93. Which of the following materials falls into the category of a "pure substance"
- (A) Milk (B) Brick
(C) Iron (D) Air
94. The formula of ferric sulphate is
- (A) $\text{Fe}_3(\text{SO}_4)_3$ (B) $\text{Fe}_3(\text{SO}_4)_2$
(C) $\text{Fe}_2(\text{SO}_4)_3$ (D) Fe_3SO_4
95. Isotopes of an element have
- (A) the same physical properties.
(B) different chemical properties.
(C) different number of neutrons.
(D) different atomic numbers.
96. Which one of the following is a correct electronic configuration of chlorine?
- (A) 8, 7, 1 (B) 2, 8, 1
(C) 2, 7, 8 (D) 2, 8, 7
97. What happens when dilute hydrochloric acid is added to iron fillings?
- (A) Hydrogen gas and iron chloride are produced.
(B) Chlorine gas and iron hydroxide are produced.
(C) No reaction takes place.
(D) Iron salt and water are produced.
98. What is the pH of an acidic solution?
- (A) 7 (B) >7
(C) <7 (D) None of these
99. Propane with the molecular formula C_3H_8 has
- (A) 7 covalent bonds (B) 8 covalent bonds
(C) 9 covalent bonds (D) 10 covalent bonds
100. Which of the following elements has a single electron in its outermost shell?
- (A) Magnesium (Mg) (B) Sodium (Na)
(C) Neon (Ne) (D) Calcium (Ca)

PART – VII

BIOLOGICAL SCIENCE: 30 Marks

Instructions: Each question under this section carries ONE mark. Please read the instructions carefully and answer the questions by selecting the most appropriate answers out of the multiple answers given below each as A, B, C & D.

101. Involuntary action in body are controlled by
(A) Medulla in forebrain (B) Medulla in mid brain
(C) Medulla in hind brain (D) Medulla in spinal cord
102. In photosynthesis process, atmospheric carbon dioxide is _____ to carbohydrates.
(A) Oxidised (B) Reduced
(C) Neutralised (D) Burnt
103. Human beings nutrition can be categorized as
(A) Saprophytic (B) Parasitic
(C) Symbiotic (D) Holozoic
104. The enzyme pepsin is inactive in stomach without the presence of which of the following acid?
(A) Nitric acid (B) Acetic acid
(C) Hydrochloric acid (D) Butyric acid
105. Right part of human heart contains
(A) Oxygenated blood (B) Deoxygenated blood
(C) Mixed blood (D) None of these
106. Haemoglobin shows maximum affinity with which of the following?
(A) CO (B) CO₂ (C) O₂ (D) NH₃
107. The number of autosomes in a human body cell is
(A) 44 (B) 46 (C) 42 (D) 40
108. Filtration unit of nephron is
(A) Kidney (B) Bowman's capsule
(C) Glomerulus (D) Tubular region

109. Which of the following blood cells plays a role in defence mechanism?
(A) W.B.Cs (B) Platelets
(C) R.B.Cs (D) None of these
110. Bone matrix is rich in which of the following?
(A) Fluoride and Calcium
(B) Calcium and Phosphorus
(C) Calcium and Pottassium
(D) Phosphorous and Pottassium
111. Nervous tissue is not found in which of the following?
(A) Brain (B) Spinal cord
(C) Tendons (D) Nerves
112. Fats are stored in human body as
(A) Cuboidal epithellium (B) Adipose tissue
(C) Bones (D) Cartilage
113. Flexibility in plants occurs due to which of the following?
(A) Collenchyma (B) Sclerenchyma
(C) Parenchyma (D) Chlorenchyma
114. The living cells present in a compact bone are called
(A) Chondroblasts (B) Adipocytes
(C) Osteoblasts (D) Scleroids
115. Chromosomes are made up of
(A) DNA (B) RNA
(C) Protein (D) Protein & DNA
116. Which of the following are present in plant cells and not in animal cells?
(A) Mitochondria and Plastids
(B) Mitochondria and Cell Wall
(C) Cell Wall and Lysosomes
(D) Cell Wall and Plastids

117. Lipid molecules in the cell are synthesized by
(A) Smooth endoplasmic reticulum (B) Golgi apparatus
(C) Rough endoplasmic reticulum (D) Plastids
118. If ribosomes of the cell are destroyed, then
(A) respiration will stop. (B) fats will not be stored.
(C) carbon assimilation will stop. (D) proteins will not be formed.
119. Which of the following is also termed as somatic cell division?
(A) Mitosis (B) Meiosis
(C) Both A & B (D) None of these
120. What is the phylum of Octopus?
(A) Arthropoda (B) Ctenophora
(C) Mollusca (D) Annelida
121. A fertilized ovule develops into a _____ in an angiospermic plant.
(A) Seed (B) Fruit
(C) Flower (D) Cotyledon
122. Vegetative propagation refers to formation of new plants from
(A) Stem, roots and flowers
(B) Stem, roots and leaves
(C) Stem, flowers and fruits
(D) Stem, leaves and flowers
123. Out of the following which is a growth inhibitor hormone in plants?
(A) Auxin (B) Cytokinin
(C) Abscisic Acid (D) Gibberellic Acid
124. The upward and downward movement of the shoots and roots respectively under the influence of gravity is called
(A) Hydrotropism (B) Geotropism
(C) Phototropism (D) Nastic movement

125. In a food chain, the third trophic level is always occupied by
(A) Carnivores (B) Herbivores
(C) Decomposers (D) Producers
126. Total amount of ATP produce in aerobic respiration is
(A) 2 ATP (B) 12 ATP
(C) 36 ATP (D) 38 ATP
127. Depletion of Ozone molecules in the stratosphere is due to
(A) Halozen compound (B) Fluorine compound
(C) Chlorine compound (D) None of these
128. Nitrogen, phosphorus and potassium are what kind of plant nutrients?
(A) Micro-nutrients (B) Macro-nutrients
(C) Non-essential nutrients (D) None of these
129. Deficiency of ADH (Antidiuretic Hormone) causes which of the following disease?
(A) Diabetes mellitus (B) Diabetes insipidus
(C) Grave's disease (D) Cretinism
130. Electrical impulse travels in a neuron from
(A) Dendrite – axon – axonal end – cell body
(B) Cell body – dendrite – axon – axonal end
(C) Dendrite – cell body – axon – axonal end
(D) Axonal end – axon – cell body – dendrite