Question Booklet Series Code: A

Question Booklet Serial No:

004961

Time Allowed: 02.30 hours

LI-2021

Maximum Marks: 130

ନିର୍ଦ୍ଧାରିତ ସମୟ : 02.30 ଘଣ୍ଟା

ସବାଧିକ ମାକି: 130

Read the following instructions carefully before you begin to answer the questions.

Before answering any question, check the Booklet and ensure that it contains $\underline{24}$ pages and no page is missing, mutilated or repeated. In case of any such defect, get it replaced immediately.

All questions are compulsory. Each question carries one mark. This Booklet contains 130 objective type questions with multiple choice answers in seven Parts, as given below.

Part-I- Arithmetic- 30 Part-II- English Language- 10

Part-IV- General Awareness- 20 Part-V- Physics- 15

Part-VI- Chemistry- 15

Part-VII- Biological Science-30 Part-III- Odia Language- 10 Part-I and Part-IV 50 questions are available in both English and Odia version. In the case of discrepancy in

meaning, the English version will prevail. ପ୍ରଶଗୁଡ଼ିକର ଉତ୍ତର କରିବାପୂର୍ବରୁ ନିମ୍ନ ପ୍ରଦତ୍ତ ନିର୍ଦ୍ଦେଶାବଳୀ ଯହସହକାରେ ପଢନ୍ତୁ ।

କୌଣସି ପ୍ରଶ୍ଚର ଭରରଦେବା ପୂର୍ବରୁ ପୁଷିକାଟିକୁ ତନଖ୍ ଦେଖନ୍ତୁ କି ଏଥ୍ରେ <u>24</u> ପୃଷା ଅଛି ଓ କୌଣସି ପୃଷା ନଷ୍ଟ, ପୁନରାବୃତ୍ତି କିମ୍ବା ଛାଡି ହୋଇନାହିଁ । କୌଣସି ତ୍ରଟିଥିଲେ ତାହାକ୍ ତ୍ରନ୍ତ ବଦଳ କରାଇନିଅନ୍ତ ।

ସମୟ ପ୍ରଶ୍ନ ବାଧ୍ୟତାମୂଳକ । ପ୍ରତ୍ୟେକ ପ୍ରଶ୍ନର ସଠିକ ଉତ୍ତର ପାଇଁ ଏକ ମାର୍କ ରହିଛି ।

ଏହି ପୁଞ୍ଚିକାରେ ନିମ୍ନ ମତେ ସାତ ଗୋଟି ଭାଗରେ 130ଟି ବିବିଧ ଉତ୍ତର ଯୁକ୍ତ ସଂକ୍ଷିପ୍ତ ପ୍ରଶ୍ମ ରହିଛି ।

ପ୍ରଥମ ଭାଗ- ଗଣିତ- 30 ତୃତୀୟ ଭାଗ- ଓଡ଼ିଆ- 10 ପଞ୍ଚମ ଭାଗ- ପଦାର୍ଥ ବିଜ୍ଞାନ- 15 ସପ୍ତମ ଭାଗ- ଜୀବ ବିଜ୍ଞାନ- 30 ହିତୀୟ ଭାଗ- ଇଂରାଜୀ- 10 ଚତ୍ର୍ଥ ଭାଗ- ସାଧାରଣ ଜ୍ଞାନ- 20 ଷଷ ଭାଗ- ରସାୟନ ବିଜ୍ଞାନ- 15

Part-I and Part-IV 50ଟି ପ୍ରଶ୍ର ଉଭୟ ଇଂରାଜୀ ଏବଂ ଓଡିଆ ଭାଷାରେ ଉପଲନ୍ତ । ଅର୍ଥ ବୋଧରେ କିଛି ତାରତମ୍ୟ ଥିଲେ ଇଂରାଜୀ ଭାଷା ବଳବଉର ରହିବ ।

INSTRUCTIONS FOR CANDIDATES

1. The Invigilator shall supply you the blank Two Part carbonless OMR Answer Sheet separately. Enter your Roll Number, Question Booklet Serial Number and Question Booklet Series Code and darken the corresponding circle/oval provided on the Answer Sheet at the appropriate space carefully by using only black/blue ball point pen. You must write the name, date and centre of examination and put your full signature in the appropriate space provided therein before answering any question.

2. A machine will read the coded information furnished by you in the OMR Answer Sheet. If the information so furnished by you are incomplete or different from what you have given in the application form, you shall be awarded Zero mark.

3. Answer must be given by completely blackening one of the four circles/ovals representing the most appropriate answer given on the Answer Sheet corresponding to the relevant question by using only Black/Blue ball point pen. Answers not shown by properly darkening in black/blue ball point pen, no marks shall be awarded.

4. No Rough work should be done on the OMR Answer Sheet. Space for rough work has been provided in the Question Booklet itself.

- 5. Correcting fluid, eraser, blade, books, textual material, scripts, notes/loose paper, calculator, docupen, slide rules, log tables, electronic watches, smart watch, cell phone, pager, other electrical/electronic devices etc. are not allowed inside the examination hall. In case the candidate is found to be in possession of any of the above, he/she shall be expelled from the examination without any enquiry as to whether the same was/were used by the candidate or not.
- 6. These instructions must be complied with fully, failing which your Answer Sheet shall not be evaluated and Zero marks will be
- 7. After the examination is over, candidates must ensure to fold the OMR Answer Sheet at the perforation and separate the Original Copy and Candidate's Copy of the Two Part OMR Answer Sheet in the presence of the Invigilator and handover the Original Copy to the Invigilator. The Candidate's Copy of the OMR Answer sheet may be taken by the candidate. Failure to hand over the original copy of the OMR Answer Sheet to the Invigilator before leaving the examination hall/room shall make the candidate liable for penal
- 8. Failure to comply with any of the above instructions shall be considered as adopting unfair means and action as deemed proper shall be taken.

ପାର୍ଥୀମାନଙ୍କ ପାଇଁ ନିର୍ଦ୍ଦେଶାବଳୀ

- ୧.ନିରୀକ୍ଷକ ଆପଣଙ୍କୁ ପୃଥକଭାବେ ଓଏମ୍ଆର୍ ଭରରଫର୍ଦ୍ର (Two Part carbonless OMR Answer Sheet) ଦେବେ । ଭରରଫର୍ଦ୍ଦର ଯଥା ସ୍ଥାନରେ ଆପଣଙ୍କ ରୋଲନମ୍ବର, ପ୍ରଶ୍ୱପ୍ରତ୍ତିକା କ୍ରମିକନମ୍ବର ଏବଂ ପ୍ରଶ୍ୱପ୍ରତ୍ତିକା ସିରିଜ କୋଡ଼ ଭଲେଖ କରନ୍ତୁ ଏବଂ ତା ପାଇଁ ଉଦ୍ଧିଷ୍ଟ ବୃଭ / ଅଣ୍ଡାକୃତିକୁ କେବଳ କଳା / ନୀଳ କାଳିର ବଲପଏଷ କଲମ ହାରା କାଳି କରନ୍ତୁ । ସେଠାରେ ପ୍ରଦର ନିର୍ଦ୍ଦିଷ୍ଟ ଛାନରେ ପରୀକ୍ଷାର ନାମ, ତାରିଖ ଓ ପରୀକ୍ଷା କେନ୍ଦ୍ରର ନାମ ନିର୍ଣ୍ଣିତ ଭାବେ ଲେଖନ୍ତୁ ଏବଂ କୌଣସି ପ୍ରଶ୍ୱର ଉତ୍ତରଦେବ। ଆଗରୁ ଯଥାଛାନରେ ଆପଣଙ୍କ ପୁରା ଦଞ୍ଜଖତ କରନ୍ତ ।
- ୨. ଓଏମ୍ଆର୍ ଉତ୍ତରଫର୍ଦ୍ଦରେ ଆପଣ ଉଲ୍ଲେଖ କରିଥିବା ସାଙ୍କେଡିକ ତଥ୍ୟକ୍ ଗୋଟିଏ ଯନ୍ତ ପଢ଼ିବ । ତେଣୁ ଆପଣଙ୍କର ଏହି ପ୍ରଦର ତଥ୍ୟ ଯଦି ଦରଖାଞ ଫର୍ମରେ ଦିଆଯାଇଥିବା ତଥ୍ୟଠାରୁ ପୃଥକ କିମ୍ବା ଅସମ୍ପୂର୍ଣ ହୁଏ, ଆପଣଙ୍କୁ ଶ୍ୱନ୍ୟ ମାର୍କ ପ୍ରଦାନ କରାଯିବ ।
- ୩. ଭରରଫର୍ଦ୍ଦରେ ଥିବା ସମ୍ପୃକ୍ତ ପ୍ରଶ୍ମର ସଠିକ୍ ଭରର ପାଇଁ ଉଦ୍ଧିଷ୍ଟ ବୃର / ଅଣାକୃତିକୁ କେବଳ କଳା / ନୀଳ କାଳିର ବଲପଏୟ କଲମ ହାରା କାଳିକରି ଉତ୍ତର ଦିଅନ୍ତ । କଳା / ନୀଳବଲ ପଏଷ କଲମ ହାରା ସଠିକ୍ ଭାବେ କାଳି କରାଯାଇନଥିବା ଉତ୍ତର ପାଇଁ କୌଣସି ମାର୍କ ଦିଆଯିବ ନାହିଁ ।
- ୪. ଓଏମ୍ଆର୍ ଉତ୍ତରଫର୍ଦ୍ଦରେ ରଫ୍ କାମ କରବୁ ନାହିଁ । ପୁଶ୍ୱପ୍ରହିକାରେ ରଫ୍ କାମପାଇଁ ଖାଲିକାଗା ଦିଆଯାଇଅଛି ।
- ୫.କୌଣସି ଧଉଳାଇବା ରଙ୍ଗ, ରବର, ବ୍ଲେଡ୍, ବହି, ଛାପା / ହାଡଲେଖାକାଗଜ, କାଲକୁଲେଟର, ଡକୁପେନ, ସ୍ଲାଇଡ ରୁଲ, ଲଗ ଟେବୁଲ, ଇଲେକଟ୍ରୋନିକ ଘଣ୍ଟା, ସ୍ନାର୍ଟ ଘଞା,ମୋବାଇଲ ଫୋନ, ପେଜର, ଅନ୍ୟ ବୈଦ୍ୟୁତିକ/ଇଲେକଟ୍ରୋନିକ ଉପକରଣାଦିକୁ ଆପଣ ପରୀକ୍ଷା ହଲ / କୋଠରୀ ଭିତରକୁ ନେଇ ପାରିବେ ନାହିଁ । ଯଦି ଉପରୋକ୍ତ କୌଣସି ଉପକରଣ ଆପଣଙ୍କ ପାଖରୁ ଉଦ୍ଧାର କରାଯାଏ, ବ୍ୟବହାର କରିଥାନ୍ତ ବା ନ କରିଥାନ୍ତୁ, ବିନା ତଦନ୍ତରେ ଆପଣଙ୍କୁ ତୁରତ୍ତ ପରୀକ୍ଷାରୁ ବାସନ୍ଦ କରାଯିବ ।
- ୬. ଏହି ନିର୍ଦ୍ଦେଶାବଳୀକୁ ସଂପୂର୍ଶଭାବେ ନିର୍ଣ୍ଣିତ ପାଳନକରନ୍ତୁ, ଅନ୍ୟଥା ଆପଣଙ୍କ ଭରରପତ୍ରର ମୂଲ୍ୟାୟନ କରାଯିବ ନାହିଁ ଏବଂ ଶୃନ୍ୟ ମାର୍କ ପ୍ରଦାନ କରାଯିବ ।
- ୭. ପରୀକ୍ଷା ସରିବା ପରେ ପରୀକ୍ଷା ହଲ ଛାଡିବା ପୂର୍ବରୁ ଆପଣଙ୍କ Two Part carbonless OMR Answer Sheet ଉତ୍ତରଫର୍ଦ୍ଦର Original Copy ଓ Candidate's Copy ନିରୀକ୍ଷକଙ୍କ ଉପଛିତିରେ ଚିହ୍ନ ଥିବା ଛାନରେ ସଠିକ ଭାବେ ଭାଙ୍ଗ କରି ଚିରି ପୃଥକ କରନ୍ତୁ ଓ Original Copyଟିକୁ ନିରୀକ୍ଷକଙ୍କ୍ ହୟାନ୍ତର କରନ୍ତ। ଅନ୍ୟଥା ପରୀକ୍ଷାର୍ଥୀ ଆଇନାନୁଯାୟୀ ଦଶ୍ଚନୀୟ ହେବେ । ଓଏମ୍ଆର୍ ଉତ୍ତରଫର୍ଦ୍ଦର ପ୍ରାର୍ଥୀଙ୍କ ପାଇଁ ଉଦ୍ଦିଷ୍ଟଥିବା କପିଟିକୁ (Candidate's Copy) ପରୀକ୍ଷାର୍ଥୀ
- ୮. ଉପରୋକ୍ତ ନିର୍ଦ୍ଦେଶାବଳୀର କୌଣସି ନିର୍ଦ୍ଦେଶର ଅନ୍ପାଳନରେ ଖୁଲାପକଲେ ଏହାକ୍ ଅସତ ଉପାୟ ଅବଲମ୍ବନ କରିଛନ୍ତି ବୋଲି ବିବେଚନା କରାଯିବ ଏବଂ ପରୀକ୍ଷାର୍ଥୀଙ୍କ ବିରୁଦ୍ଧରେ ଯଥୋଚିତ କାର୍ଯ୍ୟ। ନୁଷାନ ଗ୍ରହଣ କରାଯିବ ।

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.

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 ଷଷ ସଂଖ୍ୟାଟି କେତେ ?

- (A) 11
- (B) 12
- (C) 13
- (D) 14
- 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 ବାର୍ଣ୍ଣି ଦିଆଯାଏ । C ଓ B ର ଭାଗର ଅନ୍ତର କେତେ ?

- (A) Rs. 70
- (B) Rs. 140
- (C) Rs. 210
- (D) Rs. 280
- 3. 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 ${f A}$ ଓ ${f B}$ ର ଲାଭାଂଶ କେତେ ?

(A) Rs. 6000, Rs. 8000

(B) Rs. 7000, Rs. 7000

(C) Rs. 5000, Rs. 9000

- (D) Rs. 4000, Rs. 10000
- 4. 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 ଅଣ୍ଡାର କ୍ରୟମୂଲ୍ୟ 20 ଟି ଅଣ୍ଡାର ବିକ୍ରୟ ମୂଲ୍ୟ ସହ ସମାନ ହୁଏ, ତେବେ ଏହି କିଣାବିକାରେ ଶତକତା କେତେ ଲାଭ ବା କ୍ଷତି ହେବ ?

- (A) $16\frac{2}{3}$ % ଲାଭ (B) 20% ଲାଭ
- (C) $16\frac{2}{3}\%$ ଷଡି (D) 20% ଷଡି
- 5. 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 12ଦିନରେ ଶେଷ କରିପାରତ୍ତି । ତେବେ C ଏକାକୀ କାର୍ଯ୍ୟଟିକୁ କେତେ ଦିନରେ ଶେଷ କରିପାରିବେ ?

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

6.	Two taps can fill a tar opened together, how				
	ଦୁଇଟି ପାଣି ନଳ ଗୋଟିଏ ପାଣିନଳକୁ ଏକାଠି ଖୋଲି ଦି	ଟ୍ୟାଙ୍କ୍କୁ ଯଥାକ୍ରମେ 10	ଘଣା ଓ 15 ଘଣାରେ ପୂର୍ଣ	କରିପାରନ୍ତି । ଯଦି ଦୁଇଟି	
	(A) 8 hours	(B) 7.5 hours	(C) 6 hours	(D) 5 hours	
7.	A train travels 300 K speed of the train?				
	ଗୋଟିଏ ଟ୍ରେନ୍ 2.5 ଘଞ୍ଜା ହାରାହାରି ବେଗ କେତେ ?	ରେ 300 କି.ମି. ଓ 5	ଘଣ୍ଟାରେ 450 କି.ମି. ଅ	ତିକୁମ କରେ । ଟ୍ରେନ୍ଟିର	
	(A) 10 Km/h	(B) 50 Km/h	(C) 100 Km/h	(D) 125 Km/h	
8.	A boatman can row return in 20 minutes.			n in 30 minutes and	
	ଜଣେ ନାଉରୀ ଝରଣା ସ୍ରୋ ଫେରିପାରନ୍ତି । ସ୍ରୋତର ବେ		ଟ୍ରେ 3 କି.ମି. ଆହୁଲା ମା	ରିପାରତ୍ତି ଓ 20 ମିନିଟ୍ରେ	
	(A) 7.5 Km/h	(B) 5 Km/h	(C) 2.5 Km/h	(D) 1.5 Km/h	
9.	The ratio of speed of car, truck and bus to truck together?				
	ଏକ କାର୍, ଏକ ଟୁକ୍ ଓ ୯ ହାରାହାରି ବେଗ ଘଣ୍ଟାକୁ 60			ଓ ବସ୍ର ଏକତ୍ର ଭାବରେ ବେଗ କେତେ ?	
	(A) 63 Km/h		(B) 72 Km/h		
	(C) 45 Km/h		(D) can not be deter	rmined	
10.	Zinc and copper are copper can be added			by. How much gm of	
	220 ଗ୍ରାମ୍ ମିଶ୍ରଧାତୁରେ ଦ ମିଶାଇଲେ , ମିଶ୍ରଧାତୁରେ ଦ			ଧ ଆଉ କେତେ ଗ୍ରାମ୍ ତମ୍ବା	
	(A) 20	(B) 44	(C) 60	(D) 72	
11.	Present ages of Arpiratio of their ages bed				
	ଅର୍ପିତା ଓ ସୋନାଲିର ବର୍ତ୍ତମାନ ବୟସର ଅନୁପାତ 7:9 ଅଟେ । ତିନିବର୍ଷ ପରେ ସେମାନଙ୍କର ବଣ୍ଡ ଅନୁପାତ 4:5 ହେବ । ସୋନାଲୀର ବର୍ତ୍ତମାନ ବୟସ କେତେ ବର୍ଷ ?				
	(A) 9	(B) 18	(C) 27	(D) 36	
12.	In what time Rs. 150 per annum?	00 will become Rs.	1815 at the rate of s	simple interest of 7%	
	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	

13.		e difference between cars at 5% per annum?	compound interest	and simple interest on Rs.		
	ବାର୍ଷିକ ଶତକଡା 5 ହେବ?	ହାରରେ 1200 ଟଙ୍କାର ଦୁ	ଇ ବର୍ଷରେ ଚକ୍ରବୃଦ୍ଧି ସୁଧ	ଧ ଓ ସରଳସୁଧର ଅନ୍ତର କେତେ		
	(A) Rs. 3	(B) Rs. 4	(C) Rs. 6	(D) Rs. 8		
14.	Which of the f	ollowing numbers w	ill fill the gap in	the series 1, 9, 25, 49,		
	1, 9, 25, 49,, 121 ଅନୁକ୍ରମର ଶୂନ୍ୟଣାନରେ କେଉଁ ସଂଖ୍ୟା ରହିବ ?					
	(A) 64	(B) 81	(C) 100	(D) 144		
15.	The product of the two numbers		d their difference	is 10. What is the sum of		
	ଦୁଇଟି ସଂଖ୍ୟାର ଗୁଣ କେତେ ?	ଫଳ 96 ଓ ସେମାନଙ୍କର ଅ	ନ୍ତରଫଳ 10 ଅଟେ । ଦେ	ତବେ ସଂଖ୍ୟା ଦୁଇଟିର ଯୋଗଫଳ		
	(A) 16	(B) 22	(C) 32	(D) 36		
16.	of the two numb	ers?		nce is 6. What is the ratio		
	ଦୁଇଟି ସଂଖ୍ୟାର ଯୋହ	ମଫଳ 30 ଓ ସେମାନଙ୍କର ଅ	ଅନ୍ତରଫଳ 6 ଅଟେ । ସଂଦ	ଖ୍ୟା ଦୁଇଟିର ଅନୁପାତ କେତେ ?		
	(A) 8:7	(B) 5:1	(C) 3:2	(D) 2:1		
17.		of 6 + 7 + 8 + + + 16 ର ଯୋଗଫଳ କେତେ		topical for washing		
		(B) 120	(C) 121	(D) 136		
8.	If the perimeter of	of an equilateral triang	gle is 24m, then fin	d out its area?		
		ଦୁ ତ୍ରିଭୂଜର ପରିସୀମ। 24 ମି				
	$(A) 8\sqrt{4}m^2$	(B) $9\sqrt{3}$ m ²	(C) $12\sqrt{3}\text{m}^2$	(D) $16\sqrt{3}\text{m}^2$		
9.	5 : 4. Find out th ଗୋଟିଏ ଆୟଡ଼ାକାର	e length and breadth of	of the field respecti	its length and breadth is vely? বৈর্ঘ ও ପ্রব্লৱ ଅনুবাত 5:4।		
	(A) 200m, 90m	(B) 300m, 60m	(C) 150m, 120r	m (D) 180m, 100m		
20.	How many smal whose each side		side 6cm can be c	ut from a cubical block		
	24 ସେ.ମି. ବାହୁବିଶିଂ ସମଘନାକାର ପଦାର୍ଥ		ପଦାର୍ଥକୁ କେତେ ଗୋଟି ୍	6 ସେ.ମି. ବାହୁବିଶିଷ୍ଟ ଛୋଟ		
dia	(A) 64	(B) 56	(C) 48	(D) 36		

21.	If the radius of a sp	here is doubled, then	its surface area is in	creased by ?
				ଳର କ୍ଷେତ୍ରପଳ କେତେ ବୃଦ୍ଧି
	(A) 300%	(B) 200%	(C) 100%	(D) 50%
22.	$\sqrt[3]{-729} \times \sqrt{441} =$?		1.00
	(A) -99	(B) -121	(C) -189	(D) 189
23.	both 22 and 6?			the sum divisible by
		ମ ସଂଖ୍ୟା ଯୋଗକଲେ ଯୋଡ (B) 56	ଗଫଳ ଉଭୟ 22 ଓ 6 ଦ୍ୱା (C) 46	ରା ବିଭାଜ୍ୟ ହେବ ? (D) 66
24.		two numbers is 259 t is the greater number		imber. If the smaller
				ସଂଖ୍ୟାଟି 30 ହେଲେ, ବଡ
		(B) 40	(C) 50	(D) 60
25.	$(0.031)^2 = $ (A) 0.961	?		Turns and Quite The Title
	(A) 0.961	(B) 0.0961	(C) 0.00961	(D) 0.000961
26.	those numbers?			nbers is 25. What are
	ଦୁଇଟ କ୍ରମାଗଟ ସଂଗ୍ୟାଟ (A) 11, 12	ର ବର୍ଗର ଅନ୍ତର 25 ଅଟେ (B) 12 13	(C) 13, 14	
27.		of the LCM and HCF		
21.		ଓ ଗ.ସା.ଗୁ. ର ଅନୁପାତ େ		
		(B) 4:3	(C) 3:2	(D) 2:1
28.	What is the value of	of $\frac{1}{\sqrt{9},\sqrt{9}}$?		
	$\frac{1}{\sqrt{9}-\sqrt{8}}$ ର ମୂଲ୍ୟ କେତେ			
	$(A) \frac{1}{2} (3 - 2\sqrt{2})$		(C) $3 - 2\sqrt{2}$	(D) $3 + 2\sqrt{2}$
29.		wing numbers is the ହ ମଧ୍ୟରୁ କେଉଁଟି ବୃହତ୍ତମ		DATORIO DI MANANELE M NEMERICA MANANELE M
	$(A)(0.2)^2$		$(C)^{\frac{1}{4}}$	(D) $\sqrt{0.36}$
30.		umbers are respective the first number of the		a third number, then
	ଯଦି ପ୍ରଦତ୍ତ ଦୁଇଟି ସଂବ		॥କୁମେ ଶତକଡା 6 ଏବଂ	ଶତକତା 24 ହୁଏ, ତେବେ
	(A) 15%	(B) 20%	(C) 25%	(D) None of these

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.	11. None <u>but</u> the brave deserves the fair.	
	(Choose the correct part of speech of the	e underlined word)
	(A) noun	
	(B) pronoun	
	(C) preposition	
	(D) conjunction	
32.	2. Hari deals rice and vegetable	es in the market.
	(Fill in the blank with appropriate prepo	sition.)
	(A) with	(B) on
	(C) in	(D) about
33.	3. They have postponed the meeting because	se of bad weather.
	(Choose the correct phrasal verb of the u	inderlined word)
	(A) put up	(B) put on
	(C) put down	(D) put off
34.	4. Which of the following sentences is gran	nmatically correct?
	(A) Ganges is considered holy by the Hin	ndus.
	(B) The Ganges is considered holy by the	e Hindus.
	(C) The Ganges are considered holy by t	he Hindus.
	(D) The Ganges is considered holy by H	indus.
35.	5. John Hawkins is European.	
	(Fill in the blank with appropriate Article	e.)
	(A) an	
	(B) a	reforming to a con-
	(C) the	and the second
	(D) none of these	

36.	His writing is such that cannot be read.
	(Substitute one word for the underlined words.)
	(A) legible
	(B) ineligible
	(C) illegible
	(D) eligible
37.	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 Good
	(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
38.	It rained cats and dogs yesterday.
	(Choose the correct meaning of the underlined phrase)
	(A) slowly
	(B) irregularly
	(C) heavily
	(D) recently
39.	The black cobra is a snake.
	(Fill in the blank with correct spelling of the word.)
	(A) venomus
	(B) venomous
	(C) vanomous
	(D) vanomus
40.	The poultry not been fed.
	(Fill in the blank with correct form of verb.)
	(A) has
	(B) is
	(C) are
	(D) have

PART -III

ODIA LANGUAGE: 10 Marks

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

- 41. "ଅଲଣା କଥା " ରୃଢିର ଅର୍ଥ କଣ ?
 - (A) ବହୁ ଅବାନ୍ତର କଥା କହିବା
 - (B) ବୃଥା ଧମକ
 - (C) ଛୋଟ କଥାକୁ ବଡ କରିବା
 - (D) ମୂଲ୍ୟହୀନ କଥା
- 42. ଠିକ୍ ଶବ୍ଦଟି ବାଛି ନିମ୍ନଲିଖିତ ବାକ୍ୟର ଶୂନ୍ୟ ୟାନ ପୁରଣ କର । " ପିଲାଟାର ମିଛ କଥା ଜଣା ପଡିଯିବାରୁ ବାପାଙ୍କ ଆଗରେ ସେ ----- ପତ୍ର ପରି ଥରୁଛି ।"
 - (A) କଦଳୀ

(B) ବେଲ

(C) ବିଛୁଆତି

- (D) ବରତା
- 43. "ହୁଲିଲା ପାଣିରେ ଗୋଡ ନ ଦେବା" ଲୋକବାଣୀର ଅର୍ଥ କଣ ?
 - (A) ସାବଧାନ ହୋଇ କାମ କରିବା
 - (B) ଖୁବ୍ ସତର୍କତା ସହ କାମ କରିବା
 - (C) ଗଣ୍ଡଗୋଳରେ ନ ପଶିବା
 - (D) ଧୀର ଥିର ଭାବେ କାର୍ଯ୍ୟ କରିବା
- 44. ଶୁଦ୍ଧ ବନାନ ଥିବା ଶକଟି ବାଛ ।
 - (A) ଅନୁସନ୍ଧାନୁ
 - (B) ଅନୁସନ୍ଧାନ
 - (C) ଅନ୍ସଦ୍ଧାନ
 - (D) ଅନୁସଂନ୍ଧାନ
- 45. "ତୁହି ମା' ଜନମ ଭୂମି ପବିତ୍ର ଭାରତ ଭୂମି ତୋହର ସନ୍ତାନ ଆମ୍ରେ ଅଟୁଁ ସରବେ," ଉପରୋକ୍ତ କବିତାଂଶଟି " ଜନ୍ମଭୂମି" କବିତାର ଏକ ଅଂଶ ଅଟେ । ଏହି କବିତା କିଏ ଲେଖିଥିଲେ ?
 - (A) ମଧୁସୃଦନ ରାଓ
 - (B) ମଧୁସୃଦନ ଦାସ
 - (C) ରାଧାନାଥ ରାୟ
 - (D) ଜଗନ୍ନାଥ ଦାସ

- 46. "Cigarette smoking is injurious to heath" ଏହାର ସଠିକ୍ ଓଡ଼ିଆ ଅନୁବାଦ କ'ଣ ?
 - (A) ଧୂମ୍ରପାନ ଶରୀରପକ୍ଷେ ଷତିକାରକ ଅଟେ ।

 - (D) ଉପରୋକ୍ତ ସମୟ ଉତ୍ତର ଠିକ୍ ଅଟେ ।
- 47. ସଡ଼କ ଦୂର୍ଘଟଣା 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
- 48. ନିମ୍ନଲିଖିତ କେଉଁ ବାକ୍ୟଟି ବିବୃତିସୂଚକ ବାକ୍ୟ ଅଟେ ?
 - (A) ବିଜୁବାବୁଙ୍କୁ ଓଡ଼ିଶାରେ ସମୟେ ଜାଣ୍ଞି ।
 - (B) ବିଜୁବାବୁଙ୍କୁ ଓଡ଼ିଶାରେ କିଏ ନ ଜାଣେ ?
 - (C) ବିଜୁବାବୁ ଓଡ଼ିଶାରେ କାହାକୁ ଅଜଣା ନୁହରି ।
 - (D) ବିଜୁବାବୁ ପୁଣି ଓଡ଼ିଶାରେ କାହାର ଅଜଣା !
- 49. "ସୀତାଙ୍କୁ ରାବଣ ଚୋରାଇ ନେବା ପରେ ରାମଚନ୍ଦ୍ର ବିସନ୍ ହୋଇ ଇତସ୍ତତଃ ଅନ୍ୱେଷଣ କଲେ ।" (ଉପରୋକ୍ତ ବାକ୍ୟରେ ଥିବା ଭୁଲ୍ ଶବକୁ ବାଛ)
 - (A) ରାମଚନ୍ଦ୍ର
 - (B) ବିସନୁ
 - (C) ଇତସ୍ତତଃ
 - (D) ଅନ୍ୱେଷଣ
- 50. ନିମ୍ନଲିଖିତ ବାକ୍ୟଗୁଡିକ ମଧ୍ୟରୁ ଶୁଦ୍ଧ ବାକ୍ୟଟି ବାଛ ।
 - (A) ସମ୍ବଲପୁରର ଶୀତଳଷଷୀ ଯାତ୍ରା ଦେଖିବାକୁ ବହୁତ ଲୋକମାନେ ଆସିଥିଲେ ।
 - (B) ମୟାଙ୍କ ସଭାରେ ଆବାଳବୃଦ୍ଧ ବନିତାଗଣ ଯୋଗ ଦେଇଥିଲେ ।
 - (C) ସବୁ କବି ପ୍ରାକୃତିକ ବର୍ଣ୍ଣନାରେ ସିଦ୍ଧହୟ ।
 - (D) ଶିକ୍ଷୟତ୍ରୀ ପ୍ରତ୍ୟେକ ଛାତ୍ରମାନଙ୍କୁ ପ୍ରଶ୍ନ ପଚାରିଲେ ।

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 one of the fo	ollowing is the larges	t district of Odisha in	n terms of area?
	(A) Nayagarh	(B) Mayurbhanj	(C) Malkangiri	(D) Cuttack
	ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ ଓଡିଶ	ାର କେଉଁ ଜିଲ୍ଲା ଷେତ୍ରଫଳ	ଅନୁସାରେ ସବୁଠାରୁ ବଡ ?	parmetal ()
	(A) ନୟାଗଡ଼	(B) ମୟୂରଭ୍ଞ	(C) ମାଲକାନ୍ଗିରି	(D) କଟକ
52.	Who was the found	er of Satyabadi Bana	ı Vidyalaya in Odish	a?
	(A) Madhusudan D	as	(B) Madhusudan R	ao
	(C) Subhash Chand	ra Bose	(D) Gopabandhu D	ash
	ଓଡ଼ିଶାର ସତ୍ୟବାଦୀ ବନ	ବିଦ୍ୟାଳୟର ପ୍ରତିଷାତା କି	0?	
	(A) ମଧୁସୂଦନ ଦାସ		(B) ମଧୁସୁଦନ ରାଓ	
	(C) ସୁଭାଷ ଚନ୍ଦ୍ର ବୋଷ		(D) ଗୋପବନ୍ଧୁ ଦାଶ	
53.	'National Voter's D	Day' is celebrated on	which date?	
	(A) 15 th January		(B) 25 th January	it got the fire 1.68
	(C) 15 th February		(D) 25 th February	and regards
	"ରାଷ୍ଟ୍ରୀୟ ଭୋଟଦାତା ଦିବ	ଦସ" କେଉଁ ତାରିଖରେ ପାନ	ନନ କରାଯାଏ ?	
	(A) ୧୫ ଜାନୁଆରୀ		(B) ୨୫ ଜାନୁଆରୀ	
	(C) ୧୫ ଫେବୃଆରୀ		(D) ୨୫ ଫେବୃଆରୀ	
54.	Which Indian Olym	npian's autobiograph	y is 'unbreakable'?	
	(A) P. V. Sindhu		(B) Sania Mirza	
	(C) Mary Kom		(D) Rani Rampal	tio articola (F)
	"ଅନ୍ବେକେବଲ୍" କେଉଁ	ଭାରତୀୟ ଅଲିଂପିକ୍ ପ୍ରତିସେ	॥ଗୀଙ୍କ ଆତ୍କୁଚରିତ ?	
	(A) ପି.ଭି ସିନ୍ଦୁ		(B) ସାନିଆ ମିଜୀ	
	(C) ମେରୀ କୋମ୍		(D) ରାନୀ ରାମପାଲ୍	
55.	How many emerger	ncy provisions are co	ntained in Indian Co	nstitution?
	(A) 1	(B) 2	(C) 3	(D) 4
	ଭାରତୀୟ ସମ୍ବିଧାନରେ ଜ	ରୁରୀକାଳୀନ ପରିଛିତି ସଂକ	ନ୍ଧାନ୍ତରେ କେତୋଟି ବ୍ୟବଯା	ରହିଛି ?
	(A) Q	(B) 9	(C) 的	(D) 8

56.	Which city of Gu UNESCO as an and			orld Heritage list o
	(A) Patan	(B) Dholavira	(C) Champaner	(D) Ahmedabad
	ନିକଟରେ ଗୁଜୁରାଟର ସେ	କଉଁ ସହର ହରପ୍ପା ସ	ଏ ଭ୍ୟତାର ପ୍ରାଚୀନ ସହର ହ	ଭାବେ UNESCO ର ବିଶ୍
	ଐତିହ୍ୟ ତାଲିକାରେ ୟାନ	ପାଇଅଛି ?		Hin ino any see
	(A) ପଟାନ୍	(B) ଢୋଲ୍ଭିରା	(C) ଚଂପାନର୍	(D) ଅହମଦାବାଦ
57.	The landmass whic	h is surrounded by	water from three side	es is called -
	(A) Isthmus	(B) Atoll	(C) Peninsula	(D) Barrier reef
	ଯେଉଁ ଭୂମିଖଣ୍ଡର ତିନିପାର	ଖ ଜଳଦ୍ୱାରା ପରିବେଞ୍ଚିତ	ହୋଇଥାଏ, ତାକୁ କ'ଣ କୁହ	JIDIA S
	(A) ଇଷ୍ଥମସ୍	(B) ଏଟୋଲ୍	(C) ପେନିନ୍ସୁଲା	(D) ବାରିଅର୍ ରିଫ୍
58.	Who is the compose	er of National Anth	nem of India?	appropriate the second
50.	(A) Bankimchandra		(B) Aurobindo Gl	nosh
	(C) Rabindranath T		(D) Mohd. Iqbal	TOTAL SEMENT SO
	ଭାରତର ରାଷ୍ଟ୍ରୟ ସଂଗୀତ			
	(A) ବଙ୍କିମଚନ୍ଦ୍ର ଚାଟାର୍ଜି	10 1000111 (19)	(B) ଅରବିନ୍ଦ ଘୋଷ	
	(C) ରବିଦ୍ରନାଥ ଟାଗୋର		(D) ମହ୍ୟଦ ଇକ୍ବାଲ୍	
				STATES AND A SECOND CONTRACTOR OF THE SECOND C
59.			e the Governor of a sta	
	(A) Legislative Ass	embly	(B) Parliament	
	(C) President		(D) Supreme Cou	rt
	ନମ୍ଲାଷ୍ଟ ମଧ୍ୟରୁ କଟ ଚ (A) ବିଧାନସଭା	ग्राब्य नामाच्या लाच्या नित्रक	ୀରୁ ବହିଷ୍କାର କରିପାରିବ ?	1803)(8-23 (A
	(C) ରାଷ୍ଟ୍ରପତି		(B) ସଂସଦ (D) ୦୦୦ସ ବ୍ୟାସ୍ଥାବ	
	(८) शाक्रवर	Madester a di	(D) ଉଚ୍ଚତମ ନ୍ୟାୟାଳୟ	onsibil risinW 48
60.	Who are the two Si	lver Medal winners	s from India in Tokyo	Olympics – 2020?
	(A) Mirabai Chanu	and Bajrang Punia		Smellineard (O)
	(B) Mirabai Chanu	and Ravi Kumar D	Dahiya	sa ndorphilisako
	(C) Mirabai Chanu	and Lovlina Borgo	hain	
	(D) Mirabai Chanu	and P. V. Sindhu	Vertil Andrews	
	କେଉଁ ଦୁଇଜଣ ଭାରତୀୟ	ଟୋକିଓ ଅଲିଂପିକ୍-୨୦	୨୦ ରେ ରୌପ୍ୟ ପଦକ ବି	ଜତା ଥିଲେ ?
	(A) ମିରାବାଇ ଚାନୁ ଏବ	ଂ ବଜରଙ୍ଗ ପୁନିଆ		
	(B) ମିରାବାଇ ଚାନୁ ଏବଂ	' ରବି କୁମାର ଦହିୟା		
	(C) ମିରାବାଇ ଚାନୁ ଏବଂ	' ଲଭ୍ଲିନା ବୋର୍ଗୋହେ	Clark percent	
	(D) ମିରାବାଲ ନାନ ଏବ	ଂ ମି. ଭି ମିନ୍ଧ		

61.	(A) Surface to air missile (B) Air to air missile (C) Surface to surface missile (D) Intercontinental Ballistic missile নিযু ভেনেত্বেন আনার স্বেবরাম্ব খোনার-খন (A) জুনীরু আনার স্বেবরাম্ব	୍ଜି) କେଉଁ ପ୍ରକାରର ଷେପଣାସ୍ତ ?
62.	Which virus causes 'Bird Flu'?	和新发展的。 150 200 200 200 200 200 200 200 200 200 2
	(A) H1N1	(B) H2N3
	(C) H3N2	(D) H5N1
	କେଉଁ ଭୂତାଣୁ 'Bird Flu " ର କାରଣ ଅଟେ ?	Language Prisonal Set St Hould No
	(A) ४०,९४०,९	(B) ଏଚ୍ ୨ ଏନ୍ ୩
	(C) পত্লপন্ 9	(D) ଏଚ୍୫ଏନ୍୧
63.	Who is known as the father of White Re-	volution in India?
	(A) M. S. Swaminathan	
	(B) Dr. Hiralal Chaudhury	volunteerika Ustrosevianigalasiin, 30
	(C) Dr. Verghese Kurien	Company largered legitimes (Add.
	(D) Dr. Arun Krishnan	shaff iner steel "interpretability" (1)
	କିଏ ଭାରତର ଶ୍ୱେତ ବିପ୍ଲବର ଜନକ ଭାବେ ପରିଚିତ	
	(A) ଏମ୍. ଏସ୍ ସ୍ୱାମୀନାଥନ୍	Series of Period Al
	(B) ଡଃ ହୀରାଲାଲ୍ ଚୌଧୁରୀ	siev See jeve je, n
	(C) ଡଃ ଭରଗୀଜ୍ କୁରିଏନ୍	to provide the second s
	(D) ତଃ ଅରୁଣ କ୍ରିଷ୍ଟନ୍	WAS TO POINT OF THE PROPERTY OF AN ARCHITECT
64.	M. S. P. relating to procurement of food following?	grains is an abbreviation for which of the
	(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) ସବୌତ୍ତମ ମାନକ ମୂଲ୍ୟ
	(C) ସର୍ବନିମ୍ନ ସହାୟକ ମୂଲ୍ୟ	(D) ସବୌତ୍ତମ ସହାୟକ ମୂଲ୍ୟ
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65.	'D.P.T.' vaccine stands for which of the following?			
	(A) Diarrhoea – Per	rtussis - Typhoid	(B) Diptheria – Per	tussis - Tetanus
	(C) Diptheria – Pne	eumonia - Typhoid	(D) Diarrhoea – Pn	eumonia - Tetanus
	ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ "D.F	'.T." ଟିକା କାହା ପାଇଁ ଡ	ରବିଷ୍ଟ ?	
	(A) ଡାଇରିଆ-ପର୍ତୁସିସ୍-	ଟାଇଫଏଡ୍	(B) ଡିପ୍ଥେରିଆ-ପର୍ତୁସିହ	ସ୍-ଟିଟାନସ୍
	(C) ଡିପ୍ଥେରିଆ-ନିମୋର	ନିଆ–ଟାଇଫଏଡ୍	(D) ଡାଇରିଆ-ନିମୋନିଅ	ଆ-ଟିଟାନସ୍
66.	Who among the fol	lowing was the first	Odia writer to receive	e Jnanapitha Award?
	(A) Sitakanta Moha	apatra	(B) Sachidananda I	Routray
	(C) Gopinath Moha	anty	(D) Prativa Ray	
	ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ	ପ୍ରଥମ ଓଡ଼ିଆ ଲେଖକ ଜ୍ଞାହ	ନପୀଠ ପୁରୟାର ପାଇଥିଲେ	?
	(A) ସୀତାକାନ୍ତ ମହାପାତ୍ର		(B) ସଚ୍ଚିଦାନନ୍ଦ ରାଉତ୍ର	IIQ.
	(C) ଗୋପୀନାଥ ମହାନ୍ତି	set invertising	(D) ପ୍ରତିଭା ରାୟ	OF THE PLANTS
67.	Which is the highes	st mountain peak of (Odisha?	
	(A) Gandhamardan	(B) Mahendragiri	(C) Deomali	(D) Gorumahisani
	କେଉଁଟି ଓଡ଼ିଶାର ଉଚ୍ଚତନ	ମ ଗିରିଶୃଙ୍ଗ ଅଟେ ?		
	(A) ଗନ୍ଧମାର୍ଦ୍ଦିନ	(B) ମହେନ୍ଦ୍ରଗିରି	(C) ଦେଓମାଳି	(D) ଗୋରୁମହିଶାଣୀ
68.	Barehipani waterfa	ll comes under which	n National Park/Wild	life Sanctuary?
	(A) Similipal Natio	onal Park	(B) Sunabeda Wild	life Sanctuary
	. (C) Bhitarkanika National Park		(D) Tikarpada Wild	llife Sanctuary
	ବରେହିପାଣି ଜଳପ୍ରପାତ	କେଉଁ ରାଷ୍ଟ୍ରୀୟ ଉଦ୍ୟାନ/ବନ	୍ୟପ୍ରାଣୀ ଅଭୟାରଣ୍ୟ ଅନ୍ତର୍ଡ଼	<u>∫</u> • ?
	(A) ଶିମିଳିପାଳ ରାଷ୍ଟ୍ରୟ	ଉଦ୍ୟାନ	(B) ସୁନାବେଡା ବନ୍ୟପାଣୀ ଅଭ୍ୟାରଣ୍ୟ	
	(C) ଭିତରକନିକା ରାଷ୍ଟ୍ରୀ	ପ୍ତ ଉଦ୍ୟାନ	(D) ଟିକରପଡା ବନ୍ୟପ୍ରା	ଶୀ ଅଭୟାରଣ୍ୟ
69.	Tsunami is caused	by which of the follo	wing?	
	(A) Hurricane	(B) Earthquake	(C) Tornado	(D) Thunderstorm
	ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ	ଟି ସୁନାମିର କାରଣ ଅଟେ '	?	
	(A) ତୋଫାନ	(B) ଭୂମିକଂପ	(C) ଘୂର୍ଣ୍ଣିବାତ୍ୟା	(D) ଝଡ଼
70.	Which district of O	disha is the largest p	roducer of rice?	
	(A) Koraput	(B) Bolangir	(C) Bargarh	(D) Cuttack
	ଓଡ଼ିଶାର କେଉଁ ଜିଲ୍ଲାରେ	ସର୍ବାଧିକ ଧାନ ଉତ୍ପାଦନ ହୃ	₹V ?	
	(A) କୋରାପଟ	(B) ବଲାଙ୍ଗୀର	(C) ବର୍ଗଡ	(D) କଟକ

PART-V

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.	The presence of a magnetic field at a point can be detected by				
	(A) a strong magne	t	(B) a solenoid		
	(C) a compass need	lle	(D) a current carry	ring wire	
72.	Which of the follow	ving is not an examp	le of a bio-mass ene	rgy source?	
	(A) Wood		(B) Gobar-gas		
	(C) Nuclear energy	Maria (M.)	(D) Agricultural w	vastes	
73.		on is uniform, find o		5 minutes. Assuming relled by the train for	
	(A) 1.5 Km		(B) 3 Km	and the state of t	
	(C) 4.5 Km	THE CONTRACTOR	(D) 6 Km		
74.		100 Kg is accelerate the magnitude of th		a velocity 4 ms ⁻¹ to the object.	
	(A) 5N		(B) 15N		
	(C) 50N		(D) 150N		
75.		ricket ball which then ball comes to rest. The		ound. After covering a because	
	(A) the batsman did	d not hit the ball hard	enough.		
	(B) velocity is prop	ortional to the force	exerted on the ball.		
	(C) there is a force	on the ball opposing	the motion.		
reyse V	(D) there is no unbalanced force on the ball, so the ball would want to come to rest.				
76.	Mass of an object is	s 30 Kg. What is its	weight on the surface	e of the moon?	
	(A) 98N	(B) 9.8N	(C) 4.9N	(D) 49N	
77.	Find out the energ 500W each.	y in kWh consume	d in 10 hours by fo	our devices of power	
	(A) 20	(B) 10	(C) 5	(D) 2	

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78.	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			
	(C) -4J	(D) 4J		
79.	The frequency of a source of sound is 1 a minute?	00Hz. How many times does it vibrate in		
	(A) 3000	(B) 6000		
	(C) 600	(D) 100		
80.	Which of the following quantity determine	ines the loudness of a sound wave?		
	(A) Wavelength	(B) Frequency		
	(C) Amplitude	(D) None of these		
81.	Find out the focal length of a lens of pov	wer – 2.5 D.		
	(A) -0.5m	(B) -0.4m		
	(C) 0.5m	(D) 0.4m		
82.	An electric bulb is rated 220V and 20 power consumed will be	00W. When it is operated on 110V, the		
	(A) 25W	(B) 50W		
	(C) 100W	(D) 200W		
83.	The splitting of white light into its comp	onent colours is called		
	(A) dispersion	(B) reflection		
	(C) refraction	(D) None of these		
84.	Which is known as near- sightedness?	contact because an earlier of the state of t		
	(A) Presbyopia	(B) Myopia		
	(C) Hyper metropia	(D) None of these		
85.	The device used for producing electric of	current is called a		
	(A) generator	(B) galvanometer		
	(C) ammeter	(D) motor		

PART - VI

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.	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			
87.	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.	minute (C)			
	(D) Iron salt and water are produced.	กระ อาจาร์การการคุดการคราม รายวิจาสุรการ			
88.	What is the pH of an acidic solution?	Carl Tricodos (and			
	(A) 7	(B) >7			
it	(C) <7	(D) None of these			
89.	Propane with the molecular formula C ₃ F	$ m I_8$ has			
	(A) 7 covalent bonds	(B) 8 covalent bonds			
	(C) 9 covalent bonds	(D) 10 covalent bonds			
90.	Which of the following elements has a s	ingle electron in its outermost shell?	10.00		
	(A) Magnesium (Mg)	(B) Sodium (Na)			
	(C) Neon (Ne)	(D) Calcium (Ca)			
91.	The only products of neutralization react	tion are			
	(A) Salt and oxygen	(B) Salt and hydrogen			
	(C) hydrogen and oxygen	(D) Salt and Water			
92.	On adding water to sodium the solution	formed is			
	(A) neutral	(B) alkaline			
	(C) acidic	(D) amphoteric			

93.	Which is not a greenhouse gas?		
50.		(B) CO	
	$(A) CO_2$		
	(C) CH ₄	(D) N_2O	
94.	What is the mass of 2 moles of water molecules?		
	(A) 32gm	(B) 34gm	
	(C) 36gm	(D) 38gm	
95.	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	
96.	. The force of attraction between same molecules is called as		
	(A) cohesive force	(B) adhesive force	
	(C) electrostatic force	(D) None of these	
97.	Metal which exists in liquid state at room temperature is		
	(A) Sodium	(B) Potassium	
	(C) Calcium	(D) Mercury	
98.	Which of the following materials falls into the category of a "pure substance"?		
	(A) Milk	(B) Brick	
	(C) Iron	(D) Air	
99.	The formula of ferric sulphate is		
	$(A) \operatorname{Fe}_{3}(\operatorname{SO}_{4})_{3}$	(B) $Fe_3(SO_4)_2$	
	(C) $\operatorname{Fe}_2(\operatorname{SO}_4)_3$	(D) Fe_3SO_4	
100.	Isotopes of an element have		
	(A) the same physical properties.	(B) different chemical properties.	
	(C) different number of neutrons.	(D) different atomic numbers.	

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. Total amount of ATP produce in aerobic respiration is
 - (A) 2 ATP

(B) 12 ATP

(C) 36 ATP

- (D) 38 ATP
- 102. Depletion of Ozone molecules in the stratosphere is due to
 - (A) Halozen compound
 - (B) Fluorine compound
 - (C) Chlorine compound
 - (D) None of these
- 103. Nitrogen, phosphorus and potassium are what kind of plant nutrients?
 - (A) Micro-nutrients
 - (B) Macro-nutrients
 - (C) Non-essential nutrients
 - (D) None of these
- **104.** Deficiency of ADH (Antidiuretic Hormone) causes which of the following disease?
 - (A) Diabetes mellitus
 - (B) Diabetes insipidus
 - (C) Grave's disease
 - (D) Cretinism
- 105. 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

106.	Involuntary action in body are controlled by		
	(A) Medulla in forebrain		
	(B) Medulla in mid brain	Lawrence Statement of Control	
	(C) Medulla in hind brain	。	
	(D) Medulla in spinal cord	the file of the file of the state of the sta	
107.	In photosynthesis process, atmospheric carbon dioxide is to carbohydrates.		
	(A) Oxidised	(B) Reduced	
	(C) Neutralised	(D) Burnt	
108.	Human beings nutrition can be categorized as		
	(A) Saprophytic	(B) Parasitic	
	(C) Symbiotic	(D) Holozoic	
109.	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	
110.	Right part of human heart contains		
	(A) Oxygenated blood	(B) Deoxygenated blood	
	(C) Mixed blood	(D) None of these	
111.	Haemoglobin shows maximum affinity with which of the following?		
	(A) CO	(B) CO ₂	
	(C) O ₂	(D) NH ₃	
112.	The number of autosomes in a human body cell is		
	(A) 44	(B) 46	
	(C) 42	(D) 40	
113.	Filtration unit of nephron is	The state of the s	
	(A) Kidney	(B) Bowman's capsule	
	(C) Glomerulus	(D) Tubular region	

114.	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	
115.	Bone matrix is rich in which of the following?		
	(A) Fluoride and Calcium	The state of the s	
	(B) Calcium and Phosphorus	in the complete was really better the court	
	(C) Calcium and Pottassium		
	(D) Phosphorous and Pottassium	(1985) · 10 · 10 · 10 · 10 · 10 · 10 · 10 · 1	
116.	Nervous tissue is not found in which of the following?		
	(A) Brain	(B) Spinal cord	
	(C) Tendons	(D) Nerves	
117.	Fats are stored in human body as		
	(A) Cuboidal epithellium	(B) Adipose tissue	
	(C) Bones	(D) Cartilage	
118.	Flexibility in plants occurs due to which of the following?		
	(A) Collenchyma	(B) Sclerenchyma	
	(C) Parenchyma	(D) Chlorenchyma	
119.	The living cells present in a compact bone are called		
	(A) Chondroblasts	(B) Adipocytes	
	(C) Osteoblasts	(D) Scleroids	
20.	Chromosomes are made up of	contraction are made and considerate	
	(A) DNA	(B) RNA	
	(C) Protein	(D) Protein & DNA	
21.	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	
22.	Lipid molecules in the cell are synthesized by		
	(A) Smooth endoplasmic reticulum	(B) Golgi apparatus	
	(C) Rough endoplasmic reticulum	(D) Plastids	

123.	If ribosomes of the cell are destroyed, then	
	(A) respiration will stop.	
	(B) fats will not be stored.	200 年 7月 1945年 7月 1日 李林俊
	(C) carbon assimilation will stop.	
	(D) proteins will not be formed.	
124.	Which of the following is also termed	d as somatic cell division?
	(A) Mitosis	(B) Meiosis
	(C) Both A & B	(D) None of these
125.	What is the phylum of Octopus?	
	(A) Arthropoda	(B) Ctenophora
	(C) Mollusca	(D) Annelida
126.	A fertilized ovule develops into a	in an angiospermic plant.
	(A) Seed	(B) Fruit
	(C) Flower	(D) Cotyledon
127. Vegetative propagation refers to formation of new plants from		nation of new plants from
	(A) Stem, roots and flowers	
	(B) Stem, roots and leaves	
	(C) Stem, flowers and fruits	
	(D) Stem, leaves and flowers	
128.	Out of the following which is a growth inhibitor hormone in plants?	
	(A) Auxin	(B) Cytokinin
	(C) Abscisic Acid	(D) Gibberellic Acid
129.	The upward and downward movement of the shoots and roots respectively the influence of gravity is called	
	(A) Hydrotropism	(B) Geotropism
	(C) Phototropism	(D) Nastic movement
130.	In a food chain, the third trophic level is always occupied by	
	(A) Carnivores	(B) Herbivores
	(C) Decomposers	(D) Producers

