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Section 1 - Paper I General Knowledge and Current Affairs

No. of Questions: 15

1) Financial assistance of Rs.25,000/- per farm family over five seasons will be provided to small and marginal farmers to purchase inputs like seeds, fertilizers, pesticides and use assistance towards labour and other investments under which of the following schemes currently being implemented by the government of Odisha?

- A) KRUSHI Sanghatan Pariyojna
- B) KALIA Scheme
- C) KRUSHI Mitra Scheme
- D) Krushi Niyojan Yevam Upjivika Yojna

1) କ୍ଷୁଦ୍ର ଏବଂ ମାମମାତ୍ର କୃଷକମାନଙ୍କୁ ବିହନ, ସାର, କୀଟନାଶକ ପରି ସରଂଜାମ କିଣିବା ଏବଂ ଶ୍ରମ ଏବଂ ଅନ୍ୟାନ୍ୟ ନିବେଶ ଦିଗରେ ସହାୟତା ବ୍ୟବହାର କରିବା ପାଇଁ ପାଞ୍ଚଟି ଋତୁରେ ପ୍ରତ୍ୟେକ କୃଷି ପରିବାର ପିଛା 25,000 ଟଙ୍କା ଆର୍ଥିକ ସହାୟତା ପ୍ରଦାନ କରାଯିବ । ନିମ୍ନଲିଖିତ ଯୋଜନାଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁ ଯୋଜନା ଅଧୀନରେ ବର୍ତ୍ତମାନ ଓଡ଼ିଶା ସରକାରଙ୍କ ଦ୍ୱାରା ଏହା କାର୍ଯ୍ୟକାରୀ କରାଯାଉଛି?

- A) କୃଷି ସଂଗଠନ ପରିଯୋଜନା
- B) କାଳିଆ ଯୋଜନା
- C) କୃଷି ମିତ୍ର ଯୋଜନା
- D) କୃଷି ନିଯୋଜନ ଏବଂ ଉପଜୀବିକା ଯୋଜନା

2) On the occasion of 75th Independence Day, Prime Minister Narendra Modi announced which of the following missions with an aim to make India a global hub for the production and export of green energy?

- A) Green Energy Mission
- B) National Hydrogen Mission
- C) Renewable Energy Mission
- D) National Carbon Mission

2) 75 ତମ ସ୍ୱାଧୀନତା ଦିବସ ଅବସରରେ ପ୍ରଧାନମନ୍ତ୍ରୀ ନରେନ୍ଦ୍ର ମୋଦୀ, ସବୁଜ ଶକ୍ତି ଉତ୍ପାଦନ ତଥା ରପ୍ତାନି ପାଇଁ ଭାରତକୁ ବିଶ୍ୱସ୍ତରୀୟ ହବ୍ କରିବା ଉଦ୍ଦେଶ୍ୟରେ ନିମ୍ନଲିଖିତ ମିଶନ ମଧ୍ୟରୁ କେଉଁଟିର ଘୋଷଣା କରିଥିଲେ?

- A) ସବୁଜ ଶକ୍ତି ମିଶନ୍
- B) ଜାତୀୟ ହାଇଡ୍ରୋଜେନ୍ ମିଶନ୍
- C) ନବୀକରଣ ଯୋଗ୍ୟ ଶକ୍ତି ମିଶନ
- D) ଜାତୀୟ କାର୍ବନ ମିଶନ୍

3) Which of the following Ministry has introduced a Pre-Matric Scholarship scheme to the SC Students studying in classes IX & X?

- A) Ministry of Rural Development and Sanitation
- B) Ministry of Labour & Employment
- C) Ministry of Social Justice and Empowerment
- D) Ministry of Statistics and Programme Implementation

3) ନିମ୍ନଲିଖିତ ମନ୍ତ୍ରଣାଳୟ ଗୃହିକ ମଧ୍ୟରୁ କେଉଁଟି ନବମ ଏବଂ ଦଶମ ଶ୍ରେଣୀରେ ପଢୁଥିବା ଏସସି ଛାତ୍ରମାନଙ୍କୁ ଏକ ପ୍ରି-ମ୍ୟାଟ୍ରିକ୍ ସ୍କଲାରସ୍‌ସିପ୍ ସ୍କିମର ପ୍ରବର୍ତ୍ତନ କରିଛି?

- A) ଗ୍ରାମୀଣ ବିକାଶ ଏବଂ ପରିମଳ ମନ୍ତ୍ରଣାଳୟ
- B) ଶ୍ରମ ଏବଂ ନିଯୁକ୍ତି ମନ୍ତ୍ରଣାଳୟ
- C) ସାମାଜିକ ନ୍ୟାୟ ଏବଂ ସଶକ୍ତିକରଣ ମନ୍ତ୍ରଣାଳୟ
- D) ପରିସଂଖ୍ୟାନ ଏବଂ କାର୍ଯ୍ୟକ୍ରମ କାର୍ଯ୍ୟାଦାନ ମନ୍ତ୍ରଣାଳୟ

4) The energy obtained from food is measured in which of the following units?

- A) Grams
- B) Newton
- C) Calories
- D) Erg

4) ଖାଦ୍ୟରୁ ମିଳୁଥିବା ଶକ୍ତିକୁ ନିମ୍ନୋକ୍ତ ମଧ୍ୟରୁ କେଉଁ ୟୁନିଟ୍ ରେ ମାପ କରାଯାଏ?

- A) ଗ୍ରାମ୍
- B) ନ୍ୟୁଟନ୍
- C) କ୍ୟାଲୋରୀ
- D) ଇଆରଜି

5) After which of the following Wars/ Battles Shah Alam II gave the Diwani rights to the East India Company which eventually led to conquest of Odisha by British?

- A) Second Anglo-Mysore War
- B) First Anglo-Mysore War
- C) Battle of Buxar
- D) Battle of Porto Novo

5) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ଯୁଦ୍ଧ/ ଲଢ଼ାଇ ପରେ ଶାହା ଆଲାମ ଦ୍ଵିତୀୟ, ଇଷ୍ଟ ଇଣ୍ଡିଆ କମ୍ପାନୀକୁ ଦିୱାନା ଅଧିକାର ଦେଇଥିଲେ ଯାହା ଶେଷରେ ବ୍ରିଟିଶମାନଙ୍କ ଦ୍ଵାରା ଓଡ଼ିଶା ବିଜୟର କାରଣ ହୋଇଥିଲା?

- A) ଦ୍ଵିତୀୟ ଆଙ୍ଗ୍ଲୋ-ମହାଶୂର ଯୁଦ୍ଧ
- B) ପ୍ରଥମ ଆଙ୍ଗ୍ଲୋ-ମହାଶୂର ଯୁଦ୍ଧ
- C) ବକ୍ସର ଯୁଦ୍ଧ
- D) ପୋର୍ଟୋ ନୋଭୋ ଯୁଦ୍ଧ

6) In 1804, the first agitation against the British in Odisha was witnessed in Khurda / Khorda region during the tenure of which of the following rulers?

- A) Kalapahad
- B) Mukunda Harichandana
- C) Raja Ramachandra Deva
- D) Mukunda Deva II

6) 1804 ମସିହାରେ ଓଡ଼ିଶାରେ ବ୍ରିଟିଶମାନଙ୍କ ବିରୋଧରେ ପ୍ରଥମ ଉତ୍ତେଜନା ନିମ୍ନଲିଖିତ କେଉଁ ଶାସକଙ୍କ କାର୍ଯ୍ୟକାଳ ମଧ୍ୟରେ ଖୋର୍ଦ୍ଧା ଅଞ୍ଚଳରେ ଦେଖିବାକୁ ମିଳିଥିଲା?

- A) କଳାପାହାଡ଼
- B) ମୁକୁନ୍ଦ ହରିଚନ୍ଦନ
- C) ରାଜା ରାମଚନ୍ଦ୍ର ଦେବ
- D) ମୁକୁନ୍ଦ ଦେବ ଦ୍ଵିତୀୟ

7) Most of the Indian sub-continental landmass forms a peninsula, what is the meaning of peninsula?

- A) Land of mountains and valleys
- B) Area covered by tropical forest
- C) Surrounded by water on three sides
- D) Landmass formed due to volcanic eruption

7) ଅଧିକାଂଶ ଭାରତୀୟ ଉପ-ମହାଦେଶୀୟ ଭୂଖଣ୍ଡ ଏକ ଉପଦ୍ଵୀପ ସୃଷ୍ଟି କରେ, ଏହି ଉପଦ୍ଵୀପର ଅର୍ଥ କ'ଣ?

- A) ପର୍ବତ ଏବଂ ଉପତ୍ୟକାର ମାଳଭୂମି
- B) ଗ୍ରୀଷ୍ମ ମଣ୍ଡଳ ଜଙ୍ଗଲ ଦ୍ଵାରା ଆବୃତ ଅଞ୍ଚଳ
- C) ତିନି ପାର୍ଶ୍ଵରେ ପାଣି ଦ୍ଵାରା ଘେରି ରହିଛି
- D) ଆଗ୍ନେୟଗିରି ଉଦ୍ଘାଟନା ହେତୁ ଭୂଖଣ୍ଡ ସୃଷ୍ଟି ହେଇଛି

8) Which of the following options is CORRECT with reference to the type of 'Liberty' declared in the Preamble of Constitution of India?

- A) Social, economic and political liberty
- B) Economic, legal and financial liberty
- C) Liberty of thought, expression, belief, faith and worship
- D) Liberty of religion, caste, reliability, trust and wisdom

8) ଭାରତର ସମ୍ବିଧାନର ପ୍ରସ୍ତାବନାରେ ଘୋଷିତ 'ଲିବର୍ଟି'ର ପ୍ରକାର ସମ୍ବନ୍ଧରେ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ବିକଳ୍ପ ସଠିକ୍ ଅଟେ?

- A) ସାମାଜିକ, ଅର୍ଥନୈତିକ ଏବଂ ରାଜନୈତିକ ସ୍ୱାଧୀନତା
- B) ଅର୍ଥନୈତିକ, ଆଇନଗତ ଏବଂ ଆର୍ଥିକ ସ୍ୱାଧୀନତା
- C) ଚିନ୍ତାଧାରା, ଅଭିବ୍ୟକ୍ତି, ଦୃଢ଼ ଧାରଣା, ବିଶ୍ୱାସ ଏବଂ ପୂଜା କରିବାର ସ୍ୱାଧୀନତା
- D) ଧର୍ମ, ଜାତି, ବିଶ୍ୱାସନୀୟତା, ବିଶ୍ୱାସ ଏବଂ ଜ୍ଞାନ ର ସ୍ୱାଧୀନତା

9) Under the Directive Principles, the State shall endeavour for early childhood care and education for all children until they complete the age of

- A) 10 years
- B) 8 years
- C) 6 years
- D) 12 years

9) ନିର୍ଦ୍ଦେଶନାମା ନୀତି ଅନୁଯାୟୀ, ରାଜ୍ୟ କେତେ ବୟସ ସମାପ୍ତ ନହେବା ପର୍ଯ୍ୟନ୍ତ ସମସ୍ତ ପିଲାଙ୍କର ପିଲାଦିନର ଯତ୍ନ ଏବଂ ଶିକ୍ଷା ପାଇଁ ପ୍ରୟାସ କରିବ?

- A) 10 ବର୍ଷ
- B) 8 ବର୍ଷ
- C) 6 ବର୍ଷ
- D) 12 ବର୍ଷ

10) In Feb 2022, Union Power Minister launched a hackathon named Powerthon-2022 to find tech-driven solutions for quality power supply. Who among the following ministers is being referred to?

- A) R K Singh
- B) Piyush Goyal
- C) Amit Shah
- D) Rajnath Singh

10) ଫେବୃଆରୀ 2022 ରେ କେନ୍ଦ୍ର ଶକ୍ତି ମନ୍ତ୍ରୀ ଗୁଣାମୂକ ବିଦ୍ୟୁତ୍ ଯୋଗାଣ ପାଇଁ ଟେକ୍ନୋଲୋଜି ଚାଳିତ ସମାଧାନ ଖୋଜିବା ପାଇଁ ପାଞ୍ଚାଶରଥନ୍ -2022 ନାମକ ଏକ ହ୍ୟାକାଥନ୍ ଆରମ୍ଭ କରିଥିଲେ। ନିମ୍ନଲିଖିତଙ୍କ ମଧ୍ୟରୁ ସେହି ମନ୍ତ୍ରୀ କିଏ?

- A) ଆର କେ ସିଂ
- B) ପୀୟୁଷ ଗୋୟଲ
- C) ଅମିତ ଶାହା
- D) ରାଜନାଥ ସିଂ

11) The FIFA World Cup 2022 is scheduled to be held in which of the following countries?

- A) Russia
- B) Qatar
- C) Brazil
- D) Japan

11) ଫିଫା ବିଶ୍ୱକପ୍ 2022 ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ଦେଶରେ ଅନୁଷ୍ଠିତ ହେବାର କାର୍ଯ୍ୟକ୍ରମ ରହିଛି?

- A) ରୁଷ
- B) କାତାର
- C) ବ୍ରାଜିଲ
- D) ଜାପାନ

12) What is GPI with respect to education and social development in India?

- A) Gross Primary Index
- B) Gender Parity Index
- C) Geographical Parity Index
- D) Gross Preference Index

12) ଭାରତରେ ଶିକ୍ଷା ଏବଂ ସାମାଜିକ ବିକାଶ ସମ୍ବନ୍ଧରେ GPI କଣ?

- A) ଗ୍ରାମ୍ ପ୍ରାଥମିକ ଇନଡେକ୍ସ
- B) ଜେଣ୍ଡର୍ ପ୍ୟାରିଟି ଇନଡେକ୍ସ
- C) ଜ୍ୟୋଗ୍ରାଫିକାଲ୍ ପ୍ୟାରିଟି ଇନଡେକ୍ସ
- D) ଗ୍ରାମ୍ ପ୍ରିଫରେନ୍ସ ଇନଡେକ୍ସ

13) Which of the following options is the popular application of Polytetrafluoroethylene, commercially known as TEFLON?

- A) Used in making pencils
- B) Used as a dye to colour metal furniture
- C) Used as coating on non-stick cookware
- D) Used as an adhesive in gums

13) ନିମ୍ନଲିଖିତ ବିକଳଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁଟି ପଲିଟେଟ୍ରାଫ୍ଲୋରୋଏଥିଲିନର ଲୋକପ୍ରିୟ ପ୍ରୟୋଗ, ଯାହାକି ବ୍ୟବସାୟିକ ନାମରେ ଟେଫ୍ଲନ୍ ନାମରେ ଜଣାଶୁଣା?

- A) ପେନ୍‌ସିଲ ତିଆରିରେ ବ୍ୟବହୃତ ହୁଏ
- B) ଧାତୁ ଆସବାବପତ୍ରକୁ ରଙ୍ଗ ଦେବା ପାଇଁ ରଙ୍ଗ ଭାବରେ ବ୍ୟବହୃତ ହୁଏ
- C) ନନ୍-ଷ୍ଟିକ୍ ରନ୍ଧା ଉପକରଣର ଆବରଣ ଭାବରେ ବ୍ୟବହୃତ ହୁଏ
- D) ମାଢ଼ିରେ ଏକ ଅଠା ଭାବରେ ବ୍ୟବହୃତ ହୁଏ

14) Who among the following was the leader of the Revolt of 1857 from Bihar region?

- A) Surendra Sahai
- B) Begum Hazrat Mahal
- C) Nana Sahib
- D) Kunwar Singh

14) ବିହାର ଅଞ୍ଚଳରୁ 1857 ର ବିଦ୍ରୋହର ନେତା କିଏ ଥିଲେ?

- A) ସୁରେନ୍ଦ୍ର ସହାୟ
- B) ବେଗମ୍ ହଜରତ ମହଲ
- C) ନାନା ସାହେବ
- D) କୁନ୍‌ବର ସିଂ

15) Project Tiger was launched in India in 1973 with the help of which of the following organization?

- A) UNESCO
- B) World Wide Fund for Nature
- C) World Bank
- D) World Organization for Animal Health

15) ନିମ୍ନଲିଖିତ କେଉଁ ସଂଗଠନର ସାହାଯ୍ୟରେ 1973 ରେ ଭାରତରେ ପ୍ରୋକେକ୍ସ ଟାଇଗର ଆରମ୍ଭ କରାଯାଇଥିଲା?

- A) ଯୁନେସ୍କୋ
- B) ପ୍ରକୃତି ପାଇଁ ଖାଲ୍ ଖାଇଉ ପାଣି
- C) ବିଶ୍ୱ ବ୍ୟାଙ୍କ
- D) ପଶୁ ସ୍ୱାସ୍ଥ୍ୟ ପାଇଁ ବିଶ୍ୱ ସଂଗଠନ



Section 2 - Paper I Reasoning Ability

No. of Questions: 10

16) The cost price of each fan is ₹ 400. The shopkeeper wants to make a profit of ₹ 140 after giving a discount of 10% on the marked price. What should be the marked price of each fan?

- A) ₹ 520
- B) ₹ 560
- C) ₹ 600
- D) ₹ 660

16) ପ୍ରତିଟି ଫ୍ୟାନର କିଣାମୂଲ୍ୟ ହେଉଛି ₹ 400। ଜଣେ ଦୋକାନୀ ଜିନିଷର ଚିହ୍ନିତ ମୂଲ୍ୟ ଉପରେ 10% ରିହାତି ଦେବା ପରେ ବିକ୍ରି କରି ₹ 140 ଲାଭ କରିବାକୁ ଚାହାନ୍ତି। ପ୍ରତିଟି ଫ୍ୟାନ ର ଚିହ୍ନିତ ମୂଲ୍ୟ କେତେ ହେବା ଉଚିତ୍?

- A) ₹ 520
- B) ₹ 560
- C) ₹ 600
- D) ₹ 660

17) It takes 48 children to complete three fourths of a painting during the art class. If the painting had to be fully finished during the art class, how many children should have worked on it?

- A) 72
- B) 96
- C) 36
- D) 64

17) ଯଦି 48 ଜଣ ପିଲା ଗୋଟିଏ ଚିତ୍ରକଳା ଶ୍ରେଣୀରେ ଏକ ପେଣ୍ଟିଂର ତିନି ଚତୁର୍ଥାଂଶ ଅଂଶ ସମ୍ପୂର୍ଣ୍ଣ କରନ୍ତି। ତେବେ ଏହି ପେଣ୍ଟିଂକୁ ଚିତ୍ରକଳା ଶ୍ରେଣୀରେ ସମ୍ପୂର୍ଣ୍ଣ କରିବା ପାଇଁ କେତେ ଜଣ ପିଲା ଏଥିରେ କାମ କରିବା ଉଚିତ୍?

- A) 72
- B) 96
- C) 36
- D) 64

18) A four member group consists of A, B, C & D. A's wife is C's sister. B's daughter's father is A. A's daughter is D. How is C related to D?

- A) Aunt or Uncle
- B) Mother
- C) Sister
- D) Father

18) ଏକ ଚାରିଜଣ ସଦସ୍ୟ ବିଶିଷ୍ଟ ଗୋଷ୍ଠୀ A, B, C ଏବଂ D କୁ ନେଇ ଗଠିତ। A'ଙ୍କର ସ୍ତ୍ରୀ ହେଉଛନ୍ତି C'ଙ୍କର ଭଉଣୀ। B'ଙ୍କର ଝିଅଙ୍କର ବାପା ହେଉଛନ୍ତି A। A'ଙ୍କର ଝିଅ ହେଉଛନ୍ତି D। ତେବେ C କିପରି ଭାବରେ D'ଙ୍କ ସହିତ ସମ୍ପର୍କିତ?

- A) ମାଉସୀ ବା ମାମୁଁ
- B) ମାଆ
- C) ଭଉଣୀ
- D) ବାପା

19) Select one of the following four options that will make the 2nd pair analogous to the 1st pair given
3 : 81 :: 5 : ?

- A) 136
- B) 425
- C) 625
- D) 3125

19) ନିମ୍ନଲିଖିତ ଚାରୋଟି ବିକଳ୍ପ ମଧ୍ୟରୁ ଗୋଟିଏ ଚୟନ କରନ୍ତୁ ଯାହାକି ଦିଆଯାଇଥିବା 1ମ ଯୋଡ଼ା ସଦୃଶ 2ୟ ଯୋଡ଼ା ପ୍ରସ୍ତୁତ କରିବ

3 : 81 :: 5 : ?

- A) 136
- B) 425
- C) 625
- D) 3125

20) Select one of the following four options that will make the 2nd pair analogous to the 1st pair given

Flower : Flower Pot :: Player : ?

- A) Captain
- B) Ground
- C) Coach
- D) Game

20) ନିମ୍ନଲିଖିତ ଚାରୋଟି ବିକଳ୍ପ ମଧ୍ୟରୁ ଗୋଟିଏ ଚୟନ କରନ୍ତୁ ଯାହାକି ଦିଆଯାଇଥିବା 1ମ ଯୋଡ଼ା ସଦୃଶ 2ୟ ଯୋଡ଼ା ପ୍ରସ୍ତୁତ କରିବ

ଫୁଲ : ଫୁଲ କୁଣ୍ଡ :: ଖେଳାଳି : ?

- A) କ୍ୟାପଟେନ୍
- B) ପଡ଼ିଆ
- C) ପ୍ରଶିକ୍ଷକ
- D) ଖେଳ

21) A salesman is appointed on a monthly salary of ₹ 5,000 with a commission at 3% on the sales over ₹ 40,000 during a month. If the salesman earns ₹ 5,900 in a month, what is the total sales in that month?

- A) ₹ 30,000
- B) ₹ 70,000
- C) ₹ 75,000
- D) ₹ 80,000

21) ଜଣେ ବିକ୍ରେତା ମାସିକ ବେତନ ₹ 5,000 ସହିତ ଗୋଟିଏ ମାସରେ ₹ 40,000 ରୁ ଅଧିକ ବିକ୍ରି ଉପରେ 3% କମିଶନ୍ ସହିତ ନିଯୁକ୍ତି ପାଇଲେ। ଯଦି ଏହି ସେଲ୍‌ସମ୍ୟାନ୍ ସେ ଗୋଟିଏ ମାସରେ ₹ 5,900 ଅର୍ଜନ କରନ୍ତି ତେବେ ସେହି ମାସର ମୋଟ ବିକ୍ରୟ କେତେ ରହିଛି?

- A) ₹ 30,000
- B) ₹ 70,000
- C) ₹ 75,000
- D) ₹ 80,000

22) What is the single discount which is equivalent to the two successive discounts of 10% and 20%?

- A) 15%
- B) 25%
- C) 28%
- D) 30%

22) ଦୁଇଟି କ୍ରମାଗତ ରିହାତି 10% ଏବଂ 20% ସହିତ କେଉଁ ଏକକ ରିହାତି ସମାନ ହୋଇଥାଏ?

- A) 15%
- B) 25%
- C) 28%
- D) 30%

23) A treadmill's speed slows down proportionately as the time increases. If, after 18 minutes the speed is 16 km per hour, at what time is the speed 12 km per hour?

- A) 16 minutes
- B) 13½ minutes
- C) 24 minutes
- D) 22 minutes

23) ଏକ ଚକ୍ରୁତ ମିଲ୍‌ର ବେଗ ସମୟ ବୃଦ୍ଧି ପାଇବା ସହ ସମାନୁପାତିକ ଭାବରେ ମନ୍ଦର ହୋଇଯାଇଥାଏ। ଯଦି, 18 ମିନିଟ୍ ପରେ ବେଗ ଘଣ୍ଟା ପ୍ରତି 16 କିଲୋମିଟର ରହିଛି ତେବେ କେଉଁ ସମୟରେ ବେଗ ଘଣ୍ଟା ପ୍ରତି 12 କିଲୋମିଟର ହେବ?

- A) 16 ମିନିଟ୍
- B) 13½ ମିନିଟ୍
- C) 24 ମିନିଟ୍
- D) 22 ମିନିଟ୍

24) P's son is R, R is married to T, T's daughter is U. How is R related to U?

- A) Father
- B) Uncle
- C) Mother
- D) Aunt

24) P'ଙ୍କର ପୁଅ ହେଉଛି R, R ବିବାହ କରିଛନ୍ତି T, T'ଙ୍କର ଝିଅ ହେଉଛି U। ତେବେ R କିପରି ଭାବରେ U'ଙ୍କ ସହିତ ସମ୍ପର୍କିତ?

- A) ବାପା
- B) କାକା
- C) ମାଆ
- D) ଖତି

25) Select one of the following four options that will make the 2nd pair analogous to the 1st pair given
River : Dam :: Traffic : ?

- A) Vehicle
- B) Light Signals
- C) Speed
- D) Path

25) ନିମ୍ନଲିଖିତ ଚାରୋଟି ବିକଳ୍ପ ମଧ୍ୟରୁ ଗୋଟିଏ ଚୟନ କରନ୍ତୁ ଯାହାକି ଦିଆଯାଇଥିବା 1ମ ଯୋଡ଼ା ସଦୃଶ 2ୟ ଯୋଡ଼ା ପ୍ରସ୍ତୁତ କରିବ

ନଦୀ : ବନ୍ଧ :: ଟ୍ରାଫିକ୍ : ?

- A) ଯାନ
- B) ଲାଇଟ୍ ସିଗନାଲ୍ସ
- C) ବେଗ
- D) ରାସ୍ତା



Section 3 - Paper I Computer Literacy

No. of Questions: 10

26) What is the shortcut key to close the open active word document?

- A) Shift+F3
- B) Shift+F2
- C) Alt+F4
- D) Alt+F3

26) ଏକ ଖୋଲା ସକ୍ରିୟ ଓର୍ଡ୍ ଡକ୍ୟୁମେଣ୍ଟକୁ ବନ୍ଦ କରିବା ପାଇଁ ସର୍ଟକଟ୍ KEY କଣ?

- A) Shift+F3
- B) Shift+F2
- C) Alt+F4
- D) Alt+F3

27) Which of the following is a volatile storage?

- A) RAM
- B) Hard disk
- C) Magnetic Tape
- D) Floppy disk

27) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଏକ ଭୋଲାଟାଇଲ୍ ଷ୍ଟୋରେଜ୍?

- A) RAM
- B) ହାର୍ଡ ଡିସ୍କ
- C) ମାଗ୍ନେଟିକ୍ ଟେପ୍
- D) ଫ୍ଲପ୍ପି ଡିସ୍କ

28) Which of the following is an extremely fast computer which can execute hundreds of millions of instructions per second?

- A) Workstation
- B) Mini Computer
- C) Main Frame
- D) Supercomputer

28) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଏକ ଅତ୍ୟନ୍ତ ଦ୍ରୁତ କମ୍ପ୍ୟୁଟର ଯାହା ପ୍ରତି ସେକେଣ୍ଡରେ ଶହ ଶହ ନିୟୁତ ନିର୍ଦ୍ଦେଶାବଳୀ କାର୍ଯ୍ୟକାରୀ କରିପାରିବ?

- A) ସାର୍କିଟ୍‌ସନ୍
- B) ମିନି କମ୍ପ୍ୟୁଟର
- C) ମେନ୍ ଫ୍ରେମ୍
- D) ସୁପର କମ୍ପ୍ୟୁଟର

29) Give examples of storage devices.

- A) Floppy disks, hard disks, CD-ROM drives
- B) Floppy disks, keyboards, earphones
- C) Floppy disks, keyboards, CD-ROM drives
- D) Floppy disks, hard disks, keyboard

29) ଷ୍ଟୋରେଜ୍ ଡିଭାଇସର ଉଦାହରଣ ଦିଅନ୍ତୁ

- A) ଫ୍ଲପି ଡିସ୍କ, ହାର୍ଡ ଡିସ୍କ, ସିଡି-ରୋମ୍ ଡ୍ରାଇଭ୍
- B) ଫ୍ଲପି ଡିସ୍କ, କୀବୋର୍ଡ, ଇୟରଫୋନ୍
- C) ଫ୍ଲପି ଡିସ୍କ, କୀବୋର୍ଡ, ସିଡି-ରୋମ୍ ଡ୍ରାଇଭ୍
- D) ଫ୍ଲପି ଡିସ୍କ, ହାର୍ଡ ଡିସ୍କ, କୀବୋର୍ଡ

30) Which of the following social networking website developed by Google is obsolete now?

- A) Vine
- B) Orkut
- C) Friendster
- D) WeChat

30) Google ଦ୍ୱାରା ବିକଶିତ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ସାମାଜିକ ନେଟୱାର୍କିଂ ୱେବସାଇଟ୍ ବର୍ତ୍ତମାନ ଅପ୍ରଚଳିତ?

- A) Vine
- B) Orkut
- C) Friendster
- D) WeChat

31) The green wave underline in MS Word document indicates

- A) Spelling Errors
- B) Grammatical Errors
- C) Errors because of extra spaces between words
- D) Formatting Error

31) MS-Word ଡକ୍ୟୁମେଣ୍ଟରେ ସବୁଜ ତରଙ୍ଗ ଅଣ୍ଡରଲାଇନ୍ କଣ ସୂଚିତ କରେ?

- A) ବନାନ ତ୍ରୁଟି
- B) ବ୍ୟାକରଣଗତ ତ୍ରୁଟି
- C) ଶବ୍ଦ ମଧ୍ୟରେ ଅତିରିକ୍ତ ସ୍ଥାନ ହେତୁ ତ୍ରୁଟି
- D) ଫର୍ମାଟିଂ ତ୍ରୁଟି

32) RAM and ROM are which type of Memory?

- A) Primay Memory
- B) Secondary Memory
- C) Permanent Memory
- D) Volatile Memory

32) RAM ଏବଂ ROM କେଉଁ ପ୍ରକାରର ମେମୋରି ଅଟନ୍ତି?

- A) ପ୍ରାଥମିକ ମେମୋରି
- B) ସେକେଣ୍ଡେରୀ ମେମୋରି
- C) ପର୍ମାନେଣ୍ଟ ମେମୋରି
- D) ଭୋଲାଟାଇଲ ମେମୋରି

33) What is an OS?

- A) Operating system
- B) Opera system
- C) Operation System
- D) Operational system



33) ଏକ OS କଣ?

- A) Operating system
- B) Opera system
- C) Operation System
- D) Operational system

34) Which of the following is the land records web portal of Odisha, where you can check Land details by entering the details like name of District, Tahasil and Village of the land schedule ?

- A) Bhulekh
- B) Bhoomi
- C) e-LandRecords
- D) Umang

34) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଓଡ଼ିଶାର ଲ୍ୟାଣ୍ଡ ରେକର୍ଡ୍ ଖେପ୍ ପୋର୍ଟାଲ୍, ଯେଉଁଠାରେ ଆପଣ ଜିଲ୍ଲା, ତହସିଲ୍ ଏବଂ ଗ୍ରାମ ନାମର ସବିଶେଷ ତଥ୍ୟ ଏଣ୍ଟର କରି ଜମି ବିବରଣୀ ଯାଞ୍ଚ କରିପାରିବେ।

- A) Bhulekh
- B) Bhoomi
- C) e-LandRecords
- D) Umang

35) Which of the following is used to send a message via email to a large number of addresses at once?

- A) SPAM mail
- B) Bulk email
- C) Adware
- D) Group email

35) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଏକାଥରକେ ବହୁ ସଂଖ୍ୟକ ଠିକଣାକୁ ଇମେଲ୍ ମାଧ୍ୟମରେ ଏକ ସନ୍ଦେଶ ପ୍ରେରଣ କରିବାକୁ ବ୍ୟବହୃତ ହୁଏ?

- A) ସ୍ପାମ୍ ମେଲ୍
- B) ବଲ୍କ୍ ଇମେଲ୍
- C) ଆଡ଼ୱେୟାର୍
- D) ଗୋଷ୍ଠୀ ଇମେଲ୍



Section 4 - Paper I Pedagogy and Evaluation

No. of Questions: 15

36) Peer-to-peer learning encourages

- A) individuality
- B) collaboration
- C) competition
- D) jealousy

36) ସହପାଠୀ-କୁ-ସହପାଠୀ ଶିକ୍ଷଣ କାହାକୁ ଉତ୍ସାହିତ କରେ?

- A) ବ୍ୟକ୍ତିଗତତା
- B) ସହଯୋଗ
- C) ପ୍ରତିଯୋଗିତା
- D) ଈର୍ଷା

37) When learning is concerned with perception, it is known as

- A) verbal learning
- B) sensory learning
- C) concept learning
- D) discrimination learning

37) ଯେତେବେଳେ ଶିକ୍ଷଣ ଲକ୍ଷ୍ୟାନୁଭୂତ ଜ୍ଞାନ ସହିତ ଜଡ଼ିତ, ଏହା ନିମ୍ନଲିଖିତ ଭାବରେ ଜଣାଶୁଣା

- A) ଶାବ୍ଦିକ ଶିକ୍ଷଣ
- B) ସଂବେଦୀ ଶିକ୍ଷଣ
- C) ପ୍ରତ୍ୟକ୍ଷ ଶିକ୍ଷଣ
- D) ଭେଦଭାବ ଶିକ୍ଷଣ

38) Contrsucting a table of topics, level of the question and marks allotted in test construction is

- A) Test conceptualisation
- B) Schematic test
- C) Blue-print
- D) Master Plan

38) ପରୀକ୍ଷା ରଚନା ପ୍ରଣାଳୀରେ ଆବଶ୍ୟକ ବିଷୟଗୁଡ଼ିକର ଏକ ଟେବୁଲ୍, ପ୍ରଶ୍ନର ସ୍ତର ଏବଂ ମାର୍କ ନିର୍ଦ୍ଦାଣ କରିବା ହେଉଛି

- A) ପରୀକ୍ଷା ସଂପ୍ରତ୍ୟାୟିକିକରଣ
- B) ଯୋଜନାମୁତାବେ ପରୀକ୍ଷା
- C) ସବିଶେଷ ନକ୍ସା(ବୁ-ପ୍ରିଣ୍ଟ୍)
- D) ମୁଖ୍ୟ ଯୋଜନା (ମାଷ୍ଟର ପ୍ଲାନ)

39) The objective of assessment in schools is

- A) Assessment of learners
- B) Assessment of learning.
- C) Assessment for learning.
- D) Assessment for Scores.

39) ବିଦ୍ୟାଳୟଗୁଡ଼ିକରେ ନିର୍ଦ୍ଧାରଣର ଉଦ୍ଦେଶ୍ୟ ହେଉଛି-

- A) ଶିକ୍ଷାର୍ଥୀମାନଙ୍କର ନିର୍ଦ୍ଧାରଣ
- B) ଶିକ୍ଷଣର ନିର୍ଦ୍ଧାରଣ
- C) ଶିକ୍ଷଣ ପାଇଁ ନିର୍ଦ୍ଧାରଣ
- D) ସ୍କୋର ପାଇଁ ନିର୍ଦ୍ଧାରଣ

40) Which of the following is a solution designed to help teachers in meeting with new challenges and developing learners' abilities and performance?

- A) A smart class
- B) A teacher-centred class
- C) A small class
- D) A research class

40) ଶିକ୍ଷକମାନଙ୍କୁ ନୂତନ ଆହ୍ୱାନର ମୁକାବିଲା ଏବଂ ଶିକ୍ଷାର୍ଥୀମାନଙ୍କର ଦକ୍ଷତା ଏବଂ କାର୍ଯ୍ୟଦକ୍ଷତା ବିକାଶରେ ସାହାଯ୍ୟ କରିବାକୁ, ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ସମାଧାନ ପରିକଳ୍ପିତ ହୋଇଛି?

- A) ଏକ ସ୍ମାର୍ଟ କ୍ଲାସ୍
- B) ଏକ ଶିକ୍ଷକ-କେନ୍ଦ୍ରିକ ଶ୍ରେଣୀ
- C) ଏକ ଛୋଟ ଶ୍ରେଣୀ
- D) ଏକ ଅନୁସନ୍ଧାନ ଶ୍ରେଣୀ

41) An assesment used to exhibit a collection of learner work highlighting their achievement in a specific area is

- A) Performance Assessment
- B) Portfolio Assessment
- C) Informal Assessment
- D) Formal Assessment

41) ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ କ୍ଷେତ୍ରରେ ଶିକ୍ଷାର୍ଥୀଙ୍କର ସଫଳତାକୁ ଆଲୋଚିତ କରୁଥିବା ସେମାନଙ୍କର କାର୍ଯ୍ୟର ସଂଗ୍ରହକୁ ପ୍ରଦର୍ଶିତ କରିବା ପାଇଁ ବ୍ୟବହୃତ ଏକ ନିର୍ଦ୍ଧାରଣ ହେଉଛି-

- A) କାର୍ଯ୍ୟଦକ୍ଷତା ନିର୍ଦ୍ଧାରଣ
- B) ପୋର୍ଟଫୋଲିଓ ନିର୍ଦ୍ଧାରଣ
- C) ଅନୌପଚାରିକ ନିର୍ଦ୍ଧାରଣ
- D) ଔପଚାରିକ ନିର୍ଦ୍ଧାରଣ

42) Constructivism is a theory that equates learning with creating meaning from

- A) assumption
- B) experience
- C) instruction
- D) inheritance

42) ରଚନାବାଦୀ ସିଦ୍ଧାନ୍ତ କେଉଁଠାରୁ ଶିକ୍ଷଣକୁ ଅର୍ଥ ସୃଷ୍ଟି କରିବା ସହିତ ସମାନ କରିଥାଏ?

- A) ପ୍ରାକ୍ ଧାରଣା
- B) ଅଭିଜ୍ଞତା
- C) ନିର୍ଦ୍ଦେଶ
- D) ଉତ୍ତରାଧିକାର

43) Which of the following is TRUE about teaching?

- A) All teachers have the same style of teaching
- B) Every teacher has similar ability for teaching
- C) All Teachers think of same examples in the classroom
- D) Every teacher teaches according to her personality

43) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଶିକ୍ଷାଦାନ ବିଷୟରେ ସତ୍ୟ ଅଟେ?

- A) ସମସ୍ତ ଶିକ୍ଷକଙ୍କ ଶିକ୍ଷାଦାନର ଶୈଳୀ ସମାନ ଅଟେ
- B) ପ୍ରତ୍ୟେକ ଶିକ୍ଷକଙ୍କର ଶିକ୍ଷାଦାନ ପାଇଁ ସମାନ ଦକ୍ଷତା ଥାଏ
- C) ସମସ୍ତ ଶିକ୍ଷକ ଶ୍ରେଣୀଗୃହରେ ସମାନ ଉଦାହରଣ ବିଷୟରେ ଭାବନ୍ତି
- D) ପ୍ରତ୍ୟେକ ଶିକ୍ଷକ ନିଜର ବ୍ୟକ୍ତିତ୍ୱ ଅନୁଯାୟୀ ଶିକ୍ଷାଦାନ କରନ୍ତି

44) Which of the following is an advantage with lecture method?

- A) Full control over the transaction of the lesson
- B) It as a one-way communication
- C) Learners are passive listeners
- D) Learners have limited opportunity to offer feedback

44) ବଳୁତା ପଦ୍ଧତି ପାଇଁ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଲାଭଜନକ ଅଟେ?

- A) ପାଠ୍ୟର କାରବାର ଉପରେ ସମ୍ପୂର୍ଣ୍ଣ ନିୟନ୍ତ୍ରଣ
- B) ଏହା ଏକ ତରଫା ଯୋଗାଯୋଗ ଭାବରେ
- C) ଶିକ୍ଷାର୍ଥୀମାନେ ନିଷ୍ପ୍ରୟ ଶ୍ରୋତା
- D) ମତାମତ ପ୍ରଦାନ କରିବାକୁ ଶିକ୍ଷାର୍ଥୀମାନଙ୍କର ସୀମିତ ସୁଯୋଗ

45) Which of the following statements is TRUE of constructivist approach to assessment?

- A) The process of learning shuts down
- B) Assessment is ongoing process.
- C) Students solve only straight problems
- D) Students stick to the initial information

45) ନିମ୍ନଲିଖିତ ଉଦ୍ଭିଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁଟି ନିର୍ଦ୍ଧାରଣ ପାଇଁ ଗଠନ ମୂଳକ ଉପାଗମ ବିଷୟରେ ସତ୍ୟ ଅଟେ?

- A) ଶିଖିବାର ପ୍ରକ୍ରିୟା ବନ୍ଦ ହୋଇଯାଏ।
- B) ନିର୍ଦ୍ଧାରଣ ଏକ ପ୍ରଗତିଶୀଳ ପ୍ରକ୍ରିୟା ଅଟେ।
- C) ଛାତ୍ରମାନେ କେବଳ ସିଧା ସମସ୍ୟାର ସମାଧାନ କରନ୍ତି।
- D) ଛାତ୍ରମାନେ ପ୍ରାରମ୍ଭିକ ସୂଚନା ସହିତ ଜଡ଼ିତ ରହନ୍ତି।

46) Which of the following statements is TRUE?

- i) In Assessment as learning the learners have their own Goals
- ii) The learner himself/ herself initiates the assesment process

- A) Only i is true
- B) Only ii is true
- C) Both i & ii are true
- D) Both i & ii are false

46) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ଉକ୍ତିଟି ସତ୍ୟ?

- i) ଶିକ୍ଷଣ ଭାବରେ ନିର୍ଦ୍ଧାରଣରେ ଶିକ୍ଷାର୍ଥୀଙ୍କର ନିଜସ୍ୱ ଲକ୍ଷ୍ୟ ଥାଏ।
- ii) ଶିକ୍ଷାର୍ଥୀ ନିଜେ ନିର୍ଦ୍ଧାରଣ ପ୍ରକ୍ରିୟା ଆରମ୍ଭ କରେ।

- A) କେବଳ i ସତ୍ୟ ଅଟେ
- B) କେବଳ ii ସତ୍ୟ ଅଟେ
- C) ଉଭୟ i ଏବଂ ii ସତ୍ୟ ଅଟେ
- D) ଉଭୟ i ଏବଂ ii ମିଥ୍ୟା ଅଟେ

47) The Readiness for a child's learning is determined by

- A) Motivation
- B) Readiness
- C) Fatigue
- D) Maturation

47) ଶିଶୁର ଶିକ୍ଷଣ ପାଇଁ ପ୍ରସ୍ତୁତତା ନିମ୍ନଲିଖିତ ଦ୍ୱାରା ନିର୍ଣ୍ଣୟ କରାଯାଏ

- A) ଅଭିପ୍ରେରଣ
- B) ପ୍ରସ୍ତୁତି
- C) ଥକାପଣ
- D) ପରିପକ୍ୱତା

48) Which of the following statements regarding Intrinsic motivation is TRUE?

- A) It does not require any prior learning
- B) Reinforcer drives an individual's behaviour towards a goal
- C) Rewards are used to achieve goals
- D) Its is more important than extrinsic motivation

48) ଅନ୍ତଃ ଅଭିପ୍ରେରଣ ସମ୍ବନ୍ଧରେ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ଉକ୍ତିଟି ସତ୍ୟ?

- A) ଏହା କୌଣସି ପୂର୍ବ ଶିକ୍ଷଣ ଆବଶ୍ୟକ କରେ ନାହିଁ
- B) ପୁନର୍ବଳନ ଏକ ବ୍ୟକ୍ତିର ଆଚରଣକୁ ଏକ ଲକ୍ଷ୍ୟ ଆଡ଼କୁ ନେଇଥାଏ
- C) ଲକ୍ଷ୍ୟ ହାସଲ କରିବା ପାଇଁ ପୁରସ୍କାର ବ୍ୟବହୃତ ହୁଏ
- D) ବାହ୍ୟ ଅଭିପ୍ରେରଣ ଅପେକ୍ଷା ଏହା ଅଧିକ ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ

49) An assessment that takes place after the learning has been completed and provides information and feedback that sums up the teaching and learning process is a

- A) Diagnostic assessment
- B) Formative Assessment
- C) Summative assessment
- D) Prognostic assessment

49) ଶିକ୍ଷଣ ସମାପ୍ତ ହେବା ପରେ ଘଟୁଥିବା ଏକ ନିର୍ଦ୍ଧାରଣ, ସୂଚନା ଏବଂ ମତାମତ ପ୍ରଦାନ କରେ ଯାହା ଶିକ୍ଷାଦାନ ଏବଂ ଶିକ୍ଷଣ ପ୍ରକ୍ରିୟାକୁ ସଂକ୍ଷିପ୍ତ କରେ, ତାହାକୁ କ'ଣ କୁହାଯାଏ?

- A) ନୈଦାନିକ ନିର୍ଦ୍ଧାରଣ
- B) ଗଠନ ମୂଳକ ନିର୍ଦ୍ଧାରଣ
- C) ସମାପ୍ତି ସୂଚକ ନିର୍ଦ୍ଧାରଣ
- D) ପୂର୍ବସୂଚକ ନିର୍ଦ୍ଧାରଣ

50) Attention span of which of the following group of students is less?

- A) middle school studnets
- B) pre-school students
- C) secodnary students
- D) higher secondary students

50) ନିମ୍ନଲିଖିତ ଛାତ୍ରମାନଙ୍କ ମଧ୍ୟରୁ କାହାର ଧ୍ୟାନର ସମୟ ଅବଧି କମ୍?

- A) ମଧ୍ୟମ ବିଦ୍ୟାଳୟର ଛାତ୍ରମାନଙ୍କର
- B) ପ୍ରାକ୍ ବିଦ୍ୟାଳୟ ଛାତ୍ରମାନଙ୍କର
- C) ମାଧ୍ୟମିକ ଛାତ୍ରମାନଙ୍କର
- D) ଉଚ୍ଚ ମାଧ୍ୟମିକ ଛାତ୍ରମାନଙ୍କର



Section 5 - Paper II Chemistry

No. of Questions: 30

51) Which of the following terms can be defined as the sum of the atomic masses of all the atoms in a molecule of the substance?

- A) Atomic mass
 - B) Gram atomic mass
 - C) Molecular mass
 - D) Gram molecular mass
-

52) How many atoms are there in one mole of iron?

- A) 6.22×10^{21}
 - B) 6.32×10^{22}
 - C) 6.022×10^{23}
 - D) 6.202×10^{28}
-

53) Which of the following chemical compounds has covalent bond?

- A) NaOH
 - B) KCl
 - C) H₂
 - D) NaBr
-

54) Which of the following statements is CORRECT regarding CO₂?

- A) It has two single bonds
 - B) It has two double bonds
 - C) It has three double bonds
 - D) It has three single bonds
-

55) Which of the following equilibria has constant vapour pressure at a given temperature?

- A) Solid-liquid equilibrium
- B) Solid-solution equilibrium
- C) Liquid-gas equilibrium
- D) Gas-solution equilibrium

56) What is the reaction quotient (Q_c) for a general reaction, $aA + bB \leftrightarrow cC + dD$?

- A) $Q_c = [B]^b [C]^c / [A]^a [D]^d$
 - B) $Q_c = [A]^a [D]^d / [B]^b [C]^c$
 - C) $Q_c = [A]^a [B]^b / [C]^c [D]^d$
 - D) $Q_c = [C]^c [D]^d / [A]^a [B]^b$
-

57) What is the oxidation number of Mn in $KMnO_4$?

- A) 2
 - B) 4
 - C) 6
 - D) 7
-

58) Who showed that the chemical and physical properties of elements are determined by the atomic number and not by the atomic mass and paved the way to the modern periodic table?

- A) Dmitri Ivanovich Mendeleev
 - B) Henry Moseley
 - C) Johann Dobereiner
 - D) John Alexander Newlands
-

59) Iron ore is the basic mineral used in modern industries. Which of the following options is the principal ore of iron?

- A) Magnetite
 - B) Bauxite
 - C) Cuprite
 - D) Zincite
-

60) Chloroform is a colourless organic compound which has many industrial uses. The chemical formula of Chloroform is:

- A) CCl_4
- B) $CHCl_3$
- C) CH_2Cl_2
- D) CH_3Cl

61) The chemical formula of dry ice is:

- A) CO
 - B) O₂C
 - C) CO₂
 - D) C₂O
-

62) Which of the following options is CORRECT with reference to the shape of p and s atomic orbitals respectively?

- A) spherical, dumbbell
 - B) dumbbell, spherical
 - C) spherical, spherical
 - D) dumbbell, dumbbell
-

63) Which of the following statements is CORRECT with reference to properties of liquids?

- A) They have definite volume and definite shape
 - B) They have definite volume and no definite shape
 - C) They do not have definite volume and definite shape
 - D) They do not have definite volume and have irregular shape
-

64) Which of the following is the name given to a series of spectral emission lines of the hydrogen atom that result from electron transitions from higher levels down to the energy level with principal quantum number 2?

- A) Lyman series
 - B) Balmer series
 - C) Paschen series
 - D) Brackett series
-

65) What should be the ratio of energies of electron in various Bohr orbits of Hydrogen atom?

- A) 1:2:4:8
- B) 1:4:9:16
- C) 1:1/2:1/4:1/8
- D) 1:1/4:1/9:1/16

66) How many moles of methane occupy the volume of 11.2 Litres at Standard Temperature and Pressure?

- A) 0.5 moles
 - B) 1.0 moles
 - C) 1.5 moles
 - D) 2.0 moles
-

67) Identify the type of hybridization seen in a methane molecule.

- A) sp
 - B) sp^2
 - C) sp^3
 - D) sp^3d
-

68) Calculate the pH of 0.01N HCl.

- A) 3
 - B) 4
 - C) 2
 - D) 1
-

69) Which of the following behaves as both oxidising agent and reducing agent?

- A) H_2S
 - B) NH_3
 - C) SO_2
 - D) $K_2Cr_2O_7$
-

70) Which of the following is a reducing agent?

- A) H_2S
 - B) H_2O_2
 - C) $KMnO_4$
 - D) $K_2Cr_2O_7$
-

71) The element with atomic number 34 belongs to which of the following blocks of the periodic table?

- A) s block
- B) p block
- C) d block
- D) f block

72) Which of the following quantum numbers represents the main energy level in which the electron is present?

- A) Principal quantum number
 - B) Azimuthal quantum number
 - C) Magnetic quantum number
 - D) Spin quantum number
-

73) Which of the following reactions represent van Arkel method of refining metals?

- A) $\text{Cu} \rightarrow \text{Cu}_2^+ + 2\text{e}^-$; $\text{Cu}_2^+ + 2\text{e}^- \rightarrow \text{Cu}$
 - B) $\text{C} + 1/2 \text{O}_2 \rightarrow \text{CO}$; $\text{CO} + 1/2 \text{O}_2 \rightarrow \text{CO}_2$
 - C) $\text{Zr} + 2\text{I}_2 \rightarrow \text{ZrI}_4$; $\text{ZrI}_4 \rightarrow \text{Zr} + 2\text{I}_2$
 - D) $\text{Ni} + 4\text{CO} \rightarrow \text{Ni}(\text{CO})_4$; $\text{Ni}(\text{CO})_4 \rightarrow \text{Ni} + 4\text{CO}$
-

74) Which of the following processes is used for refining of Nickel?

- A) Mond process
 - B) van Arkel method
 - C) Froth floatation process
 - D) Hall-Heroult process
-

75) Grignard reagents are commonly used for organic synthesis. Which among the following is a Grignard reagent?

- A) RMgX
 - B) RLiX
 - C) RZnX
 - D) RNaX
-

76) Which among the following metals is used in an organic coupling reaction named Wurtz reaction?

- A) Al
- B) Fe
- C) Na
- D) Zn

77) How many molecules of ethyne are involved in cyclic polymerisation reaction to form benzene?

- A) 1
 - B) 2
 - C) 3
 - D) 4
-

78) To what volume, 8 m^3 of ethane gas at 1.2 atmospheric pressure has to be compressed to give required storage pressure of 6 atmospheres at constant temperature?

- A) 0.9 m^3
 - B) 1.6 m^3
 - C) 1.8 m^3
 - D) 2.0 m^3
-

79) A gas occupies a volume of 48 cm^3 at 15°C . Calculate the volume that the gas would occupy at 33°C at constant pressure.

- A) 42 cm^3
 - B) 45 cm^3
 - C) 51 cm^3
 - D) 54 cm^3
-

80) Which of the following options describe the orbital with quantum number $n=3, l=2$?

- A) 3s
- B) 3p
- C) 3d
- D) 4f

Section 6 - Paper II Botany

No. of Questions: 35

81) Which growth regulator is responsible for fruit ripening?

- A) IAA
 - B) GA
 - C) ABA
 - D) Ethylene
-

82) Which growth regulators was isolated by F.W. Went from tips of coleoptiles of oat seedlings?

- A) Gibberellin
 - B) Cytokinin
 - C) Auxin
 - D) Ethylene
-

83) In which phenomenon the growing apical bud is partly responsible for inhibiting the growth of axillary buds?

- A) Plasticity
 - B) Apical dominance
 - C) Parthenocarpy
 - D) Phototropism
-

84) Which Plant Growth Regulator is responsible for cell division?

- A) Cytokinins
 - B) ABA
 - C) Ethylene
 - D) GA
-

85) Who among the following independently rediscovered Mendel's work?

- A) Hugo De Vries, Robert Hook and Frederick Griffith
- B) Carl Corrence, Carl Nageli and Francis Crick
- C) Erich von Tschermak, Charles Darwin and James Watson
- D) Hugo DeVries, Carl Correns and Erich von Tschermak

86) The observable characteristics or traits of an organism is

- A) phenotype
 - B) genotype
 - C) test cross
 - D) back cross
-

87) Who is the father of genetics?

- A) Robert Hook
 - B) Hugo De Vries
 - C) Carl Corrence
 - D) Gregor Mendel
-

88) Gregor Mendel (1822-1844) perform his breeding experiments on which plant?

- A) Tomato
 - B) Potato
 - C) Pea
 - D) Papaya
-

89) The cross of an organism showing dominant phenotype with the recessive parent to predict the genotype of the test organism is

- A) Back Cross
 - B) Test Cross
 - C) Monohybrid Cross
 - D) Dihybrid Cross
-

90) Kranz anatomy is a special feature in which type of plant species?

- A) C2
- B) C3
- C) C4
- D) CAM

91) Which of the following is an example of C3 plants?

- A) Spinach
 - B) Maize
 - C) Sugarcane
 - D) Orchids
-

92) In photosynthesis process light reaction is also known as

- A) Hill's Reaction
 - B) Blackman's reaction
 - C) Oparin reaction
 - D) Emerson effect
-

93) Which cell organelles participates in photorespiration?

- A) Chloroplast, Lysosome and Vacuole
 - B) Chloroplast, Ribosome and Golgi apparatus
 - C) Chloroplast, Mitochondria and Peroxisome
 - D) Peroxisome, Endoplasmic reticulum and Lysosome
-

94) With respect to photosynthesis, what is the full form of acronym CAM?

- A) Crassulacean Acid Metabolism
 - B) Carbon Acid Mechanism
 - C) Crassulacean Acid Mechanism
 - D) Carbon Acid Metabolism
-

95) Reaction of Calvin Cycle occur in which part of chloroplast?

- A) Stroma
 - B) Inner membrane
 - C) Outer membrane
 - D) Cytoplasm
-

96) Which crop was affected during Irish famine?

- A) Potato
- B) Tomato
- C) Citrus
- D) Legume

97) Late blight disease of potato is caused by

- A) bacteria
- B) protozoa
- C) fungi
- D) virus

98) ICN is the set of rules and recommendations dealing with the formal botanical names and a few other group of organisms. What is the full form of Acronym ICN?

- A) International Class of Nomenclature
- B) International Code of Nomenclature for algae, fungi, and plants
- C) International Category of Biological Nomenclature
- D) International Committee of Nomenclature

99) Chipko movement for the protection of local forest was initiated in which state?

- A) Punjab
- B) Haryana
- C) Rajasthan
- D) Uttarakhand

100) In which plant group seeds develop inside chambers called ovaries, which originate within flowers and mature into fruits?

- A) Angiosperm
- B) Bryophytes
- C) Pteridophytes
- D) Gymnosperm

101) In which plant group have naked seed?

- A) Angiosperm
- B) Bryophytes
- C) Pteridophytes
- D) Gymnosperm

102) Which of the following Book record the endangered and rare plant species?

- A) Red Data Book
 - B) Green Data Book
 - C) Yellow Data Book
 - D) Rare Data Book
-

103) In angiosperm which structure are specialized for sexual reproduction?

- A) Root
 - B) Stem
 - C) Leaf
 - D) Flower
-

104) Which of the following are reproductive parts of plants?

- A) Flower
 - B) Stem
 - C) Root
 - D) Leaves
-

105) A small pore at one end of ovule through which the pollen tube enters is

- A) micropyle
 - B) integuments
 - C) nucellus
 - D) embryo sac
-

106) What is the characteristic feature of Conidia?

- A) Thalloid
 - B) Flagellated
 - C) Non-motile
 - D) Motile
-

107) What term used for the triploid nucleus, formed as a result of double fertilization or triple fusion?

- A) Embryosac
- B) Endosperm
- C) Ovule
- D) Pollination

108) In Oogamy type of copulation, what is the characteristic feature of female gamete compared with male gamete?

- A) Larger and motile
 - B) Smaller and motile
 - C) Larger and non-motile
 - D) Smaller and non-motile
-

109) Micropropagation is which type of propagation technology for producing a large number of genetically superior and pathogen free plants in a limited time and space?

- A) Only vegetative
 - B) Only sexual
 - C) Both vegetative and sexual
 - D) Neither vegetative nor sexual
-

110) A peripheral protective tissue on stem known as Periderm have

- A) Only phellogen
 - B) Only phellem
 - C) Only secondary cortex
 - D) Phellogen, Phellem and Secondary cortex
-

111) Which of the following theory was proposed by Carl Nageli in 1858?

- A) Apical cell theory
 - B) Histogen theory
 - C) Tunica corpus theory
 - D) Theory of evolution
-

112) Velamen tissue which is absorbing in nature present in which plant group?

- A) Orchid
- B) Algae
- C) Fungi
- D) Bryophyta

113) In a leaf each stomata consist of a pore surrounded by two kidney shaped or dumb bell shaped structure are known as

- A) Guard Cell
 - B) Subsidiary Cell
 - C) Epidermal Cell
 - D) Mesophyll
-

114) According to Histogen theory Dermatogen, Periblem and Plerome are three meristematic zones proposed by which scientist?

- A) Carl Nägeli
 - B) Carl Friedrich Schmidt
 - C) Gottlieb Haberlandt
 - D) Johannes von Hanstein
-

115) The term stele (An axial portion of the plant axis) was coined by which scientist?

- A) Van Tieghem and Douliot
- B) Carl Friedrich Schmidt and Gottlieb Haberlandt
- C) Carl Nageli
- D) Johannes von Hanstein

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Section 7 - Paper II Zoology

No. of Questions: 35

116) Transport of Fe^{3+} in blood stream is carried by which of the following proteins?

- A) Globulins
 - B) Fibrinogen
 - C) Albumins
 - D) Transferrin
-

117) The branch of science concerned with the study of blood and associated disorders called as

- A) Hematology
 - B) Nematology
 - C) Pulmonology
 - D) Gynaecology
-

118) Which of the following connects the brain with the spinal cord?

- A) Brain stem
 - B) Cerebrum
 - C) Thalamus
 - D) Hypothalamus
-

119) Which gland secretes growth hormone?

- A) Pituitary gland
 - B) Adrenal gland
 - C) Thyroid gland
 - D) Hypothalamus
-

120) The cell cycle of eukaryotic cell is divided into four discrete phases. Which of the following represents the CORRECT order of these phases?

- A) G1 - S - G2 - M
- B) G1 - M - G2 - S
- C) G1 - S - M - G2
- D) G1 - G2 - M - S

121) Who among the following first explained that cells divided and new cells are formed from pre-existing cells (Omnis cellula-e cellula)?

- A) Matthias Schleiden
 - B) Theodore Schwann
 - C) Rudolf Virchow
 - D) Garth L. Nicolson
-

122) The rate of production of organic matter during photosynthesis of an ecosystem is

- A) Tertiary productivity
 - B) Secondary productivity
 - C) Net primary productivity
 - D) Gross primary productivity
-

123) The formula to calculate Net Primary Productivity (NPP) of an ecosystem is

- A) $NPP = GPP - R$
 - B) $NPP = GPP + R$
 - C) $NPP = GPP * R$
 - D) $NPP = GPP / R$
-

124) Name the book published by Charles Darwin.

- A) Systema Naturae
 - B) Species Plantarum
 - C) Mendel's Principles of Heredity
 - D) On the origin of species
-

125) Urine is formed in a three-step process: which of the following gives the CORRECT order in which these steps take place in the nephron?

- A) Tubular reabsorption, tubular secretion, glomerular filtration
- B) Tubular secretion, tubular reabsorption, glomerular filtration
- C) Glomerular filtration, tubular secretion, tubular reabsorption
- D) Glomerular filtration, tubular reabsorption, tubular secretion

126) A mutation causes the conversion of AG to GA or TC to CT is called

- A) Transition Mutation
 - B) Inversion Mutation
 - C) Frameshift Mutation
 - D) Deletion
-

127) Which is a water soluble vitamin?

- A) Vitamin C
 - B) Vitamin D
 - C) Vitamin K
 - D) Vitamin A
-

128) Fertilization of an egg by a sperm normally occurs in the

- A) Cervix
 - B) Labium minus
 - C) Fallopian tube
 - D) Vagina
-

129) The organelles associated with aerobic respiration is

- A) Nucleus
 - B) Mitochondria
 - C) Chloroplast
 - D) Centriole
-

130) Glycolysis takes place in

- A) cytoplasm
- B) chloroplast
- C) mitochondria
- D) nucleus

131) Five kingdom concept of life system has been proposed by

- A) James Watson
 - B) Robert. H. Whittaker
 - C) Ernst Haeckel
 - D) Herbert. F. Copeland
-

132) Which one of the following is higher taxonomic category?

- A) Species
 - B) Order
 - C) Family
 - D) Kingdom
-

133) A thin, muscular wall in heart that separates the right and the left atria is called

- A) inter-atrial septum
 - B) inter-ventricular septum
 - C) pericardium
 - D) pericardial fluid
-

134) In human beings the number of spinal and cranial nerves are

- A) 31, 10 pairs respectively
 - B) 30, 10 pairs respectively
 - C) 31, 12 pairs respectively
 - D) 31, 11 pairs respectively
-

135) Which of the following phase starts with the nuclear division, corresponding to the separation of daughter chromosomes and usually ends with division of cytoplasm?

- A) M phase
- B) G1 phase
- C) S phase
- D) G2 phase

136) Spindle fibres attach to kinetochores of chromosomes in which of the following phase of mitosis?

- A) Telophase
 - B) Prophase
 - C) Metaphase
 - D) Anaphase
-

137) An example of Ex-situ conservation is

- A) Seed banks
 - B) Sacred grooves
 - C) National parks
 - D) Natural reserves
-

138) Which of the following is an abiotic component of an ecosystem?

- A) Water
 - B) Plants
 - C) Animals
 - D) Bacteria
-

139) Which of the following is a process where new combinations of alleles are formed?

- A) Genetic recombination
 - B) Mutation
 - C) Isolation
 - D) Natural selection
-

140) What is the duration of Charles Darwin's famous voyage on HMS Beagle?

- A) 1831 - 1840
 - B) 1830 - 1837
 - C) 1831 - 1836
 - D) 1828 - 1836
-

141) The part of nephron situated in the medullary region of the kidney is

- A) malpighian corpuscle
- B) proximal convoluted tubule
- C) distal convoluted tubule
- D) henle's loop

142) Total quantity of filtrate formed in all nephrons of both the kidneys in the given unit of time is called as

- A) Tubular secretion rate
- B) Glomerular filtration rate
- C) Tubular filtration rate
- D) Tubular reabsorption rate

143) Crossing over occurs at which stage of prophase I in meiosis?

- A) Zygotene
- B) Diplotene
- C) Pachytene
- D) Leptotene

144) karyotype 47,XX,+21 is for which of the following syndrome?

- A) Down syndrome
- B) Turner syndrome
- C) Edwards syndrome
- D) Patau syndrome

145) Anaemia due to lack of Haemoglobin is associated with the deficiency of

- A) Zinc
- B) Phosphorous
- C) Iron
- D) Calcium

146) The common name of Vitamin B1 is

- A) Niacine
- B) Adenine
- C) Cytosine
- D) Thiamine

147) After ovulation the Graafian follicle transforms into the

- A) Corpus luteum
 - B) Ampulla
 - C) Infundibulum
 - D) Oocyte
-

148) End product of Glycolysis during aerobic respiration is

- A) Acetyl-CoA
 - B) Triose phosphate
 - C) Pyruvate
 - D) Malate
-

149) How many molecules of ATP are gained during anaerobic respiration of one molecule of glucose?

- A) 36
 - B) 2
 - C) 38
 - D) 4
-

150) Cyanobacteria belongs to which domain?

- A) Fungi
- B) Bacteria
- C) Plantae
- D) Animalia

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Answer Key

1	B	31	B	61	C	91	A	121	C
2	B	32	A	62	B	92	A	122	D
3	C	33	A	63	B	93	C	123	A
4	C	34	A	64	B	94	A	124	D
5	C	35	B	65	D	95	A	125	D
6	D	36	B	66	A	96	A	126	A
7	C	37	B	67	C	97	C	127	A
8	C	38	C	68	C	98	B	128	C
9	C	39	B	69	C	99	D	129	B
10	A	40	A	70	A	100	A	130	A
11	B	41	B	71	B	101	D	131	B
12	B	42	B	72	A	102	A	132	D
13	C	43	D	73	C	103	D	133	A
14	D	44	A	74	A	104	A	134	C
15	B	45	B	75	A	105	A	135	A
16	C	46	C	76	C	106	C	136	C
17	D	47	D	77	C	107	B	137	A
18	A	48	A	78	B	108	C	138	A
19	C	49	C	79	C	109	A	139	A
20	B	50	B	80	C	110	D	140	C
21	B	51	C	81	D	111	A	141	D
22	C	52	C	82	C	112	A	142	B
23	C	53	C	83	B	113	A	143	C
24	A	54	B	84	A	114	D	144	A
25	B	55	C	85	D	115	A	145	C
26	C	56	D	86	A	116	D	146	D
27	A	57	D	87	D	117	A	147	A
28	D	58	B	88	C	118	A	148	C
29	A	59	A	89	B	119	A	149	B
30	B	60	B	90	C	120	A	150	B

