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Section 1 - Paper I General Knowledge and Current Affairs

No. of Questions: 15

1) Which among the following business groups regained the control of Air India in January 2022?

- A) Reliance Industries Limited
- B) Wadia Group
- C) Tata Group
- D) Aditya Birla Group

1) ନିମ୍ନଲିଖିତ ବ୍ୟବସାୟ ଗୋଷ୍ଠୀ ମଧ୍ୟରୁ କେଉଁଟି ଜାନୁଆରୀ 2022 ରେ ଏୟାର ଇଣ୍ଡିଆର ନିୟନ୍ତ୍ରଣ ଫେରି ପାଇଲା?

- A) ରିଲାଇଏନ୍ସ ଇଣ୍ଡଷ୍ଟ୍ରିଜ୍ ଲିମିଟେଡ୍
- B) ୱାଡ଼ିଆ ଗ୍ରୁପ୍
- C) ଟାଟା ଗ୍ରୁପ୍
- D) ଆଡିଟ୍ୟା ବିର୍ଲା ଗ୍ରୁପ୍

2) Who among the following tennis players won his first-ever Grand Slam trophy i.e. US Open 2021?

- A) Novak Djokovic
- B) Rafael Nadal
- C) Andy Murray
- D) Daniil Medvedev

2) ନିମ୍ନଲିଖିତ ଟେନିସ୍ ଖେଳାଳୀମାନଙ୍କ ମଧ୍ୟରୁ କିଏ ତାଙ୍କର ପ୍ରଥମ ଗ୍ରାଣ୍ଡ୍ ସ୍ଲାମ୍ ଟ୍ରଫି ଅର୍ଥାତ୍ ଯୁଏସ୍ ଓପେନ୍ 2021 ଜିତିଥିଲେ?

- A) ନୋଭାକ ଜୋକୋଭିକ୍
- B) ରାଫେଲ ନାଡାଲ
- C) ଆଣ୍ଡି ମୁରେ
- D) ଡେନିଲ୍ ମେଦଭେଭେଭ୍

3) What is the motive behind Stand-Up India Scheme launched by Prime Minister of India?

- A) Venture Capital fund for financing companies started by engineering graduates below 25
- B) Facilitates bank loans to Scheduled Caste/ Scheduled Tribe
- C) Rs.10 lakh and Rs.1 crore to at least one women in the country
- D) Revival of Sick MSME units run by Scheduled Caste/ Scheduled Tribe

3) ଭାରତର ପ୍ରଧାନମନ୍ତ୍ରୀଙ୍କ ଦ୍ଵାରା ଆରମ୍ଭ ହୋଇଥିବା ଷ୍ଟାଣ୍ଡ ଅପ୍ ଇଣିଆ ସିମ୍ ପଛରେ ଉଦ୍ଦେଶ୍ୟ କ'ଣ?

- A) 25ବର୍ଷରୁ କମ୍ ଇଞ୍ଜିନିୟରିଂ ଗ୍ରାଜୁଏଟ୍‌ଙ୍କ ପ୍ରତିଷ୍ଠିତ କମ୍ପାନୀ ପାଇଁ ଭେଞ୍ଚର କ୍ୟାପିଟାଲ୍ ପାଣ୍ଡର ଆର୍ଥିକ ସହାୟତା
- B) ଅନୁସୂଚିତ ଜାତି / ଅନୁସୂଚିତ ଜନଜାତିଙ୍କୁ ବ୍ୟାଙ୍କ ରଣ ସୁବିଧା
- C) ଦେଶର ଅତି କମରେ ଜଣେ ମହିଳାଙ୍କୁ 10 ଲକ୍ଷ ଟଙ୍କା ଏବଂ 1 କୋଟି ଟଙ୍କା
- D) ଅନୁସୂଚିତ ଜାତି / ଅନୁସୂଚିତ ଜନଜାତି ଦ୍ଵାରା ପରିଚାଳିତ ରୁଗ୍ଣ ଏମଏସଏମଇ ଯୁନିଟ୍ ଗୁଡ଼ିକର ପୁନର୍ବିନ୍ୟାସ

4) Which of the following options is an important mineral present in the haemoglobin, a protein which carries oxygen from our lungs to all the body tissues?

- A) Zinc
- B) Aluminium
- C) Iron
- D) Copper

4) ନିମ୍ନଲିଖିତ ବିକଳଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁଟି ହିମୋଗ୍ଲୋବିନରେ ଥିବା ଏକ ଗୁରୁତ୍ଵପୂର୍ଣ୍ଣ ଖଣିଜ ପଦାର୍ଥ, ଯାହା ଆମ ପୁସ୍ତୁସରୁ ଶରୀରର ସମସ୍ତ ତିସୁକୁ ଅମ୍ଳଜାନ ପରିବହନ କରେ ?

- A) ଜିଙ୍କ
- B) ଆଲୁମିନିୟମ୍
- C) ଲୌହ
- D) ତମ୍ବା

5) Which of the following options was an agreement between Hindu leaders in India granting new rights to Dalits?

- A) Poona Pact, 1932
- B) Rowlatt Act, 1919
- C) Ilbert Bill, 1884
- D) Gandhi-Livermore Pact, 1921

5) ନିମ୍ନଲିଖିତ ବିକଳଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁଟି ଭାରତରେ ହିନ୍ଦୁ ନେତାଙ୍କ ମଧ୍ୟରେ ଏକ ରୁଚ୍ଛିନାମା ଥିଲା ଯାହା ଦଳୀତ ମାନଙ୍କୁ ନୂତନ ଅଧିକାର ପ୍ରଦାନ କରିଥିଲା?

- A) ପୁନା ରୁଚ୍ଛି, 1932
- B) ରୋଲାର୍ ଅଧି ନିୟମ 1919
- C) ଇଲବର୍ଗ ବିଲ୍, 1884
- D) ଗାନ୍ଧୀ-ଇରଫିନ୍ ରୁଚ୍ଛି, 1931

6) Mughal emperor Akbar wrested Odisha from which of the following rulers during the years 1590–92?

- A) Portuguese
- B) Afghans
- C) French
- D) Dutch

6) ମୋଗଲ ସମ୍ରାଟ ଆକବର 1590–92 ମଧ୍ୟରେ ନିମ୍ନଲିଖିତ ଶାସକମାନଙ୍କ ମଧ୍ୟରୁ କେଉଁ ଶାସକଙ୍କଠାରୁ ଓଡ଼ିଶାକୁ ଛଡେଇ ନେଇଥିଲେ?

- A) ପର୍ତୁଗୀଜ୍
- B) ଆଫଗାନସ୍
- C) ଫ୍ରେଞ୍ଚ
- D) ଡଚ୍

7) Lesotho is the country that is land-locked inside which other country?

- A) Italy
- B) South Africa
- C) Zimbabwe
- D) Swaziland

7) ଲେସୋଥୋ ହେଉଛି ସେହି ଦେଶ ଯାହା ନିମ୍ନୋକ୍ତ ମଧ୍ୟରୁ କେଉଁ ଦେଶ ଭିତରେ ସ୍ଥଳ-ଆବଦ୍ଧ ହୋଇ ରହିଛି?

- A) ଇଟାଲୀ
- B) ଦକ୍ଷିଣ ଆଫ୍ରିକା
- C) ଜିମ୍ବାୱେ
- D) ସ୍ୱିଜରଲ୍ୟାଣ୍ଡ

8) Which of the following subjects does not fall under the Union List?

- A) Banking
- B) Citizenship
- C) Railways
- D) Police

8) ନିମ୍ନଲିଖିତ ବିଷୟଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁଟି ସଂଘୀୟ(ୟୁନିୟନ) ସୂଚୀର ଅଧିନ ନୁହେଁ?

- A) ବ୍ୟାଙ୍କିଂ
- B) ନାଗରିକତା
- C) ରେଳବାଇ
- D) ପୋଲିସ୍

9) What is the age mentioned under Article 24 of the Indian Constitution, below which no child shall be employed to work in any factory or mine or engaged in any other hazardous employment?

- A) 12 years
- B) 14 years
- C) 16 years
- D) 18 years

9) ଭାରତୀୟ ସମ୍ବିଧାନର ଧାରା 24 ଅନୁଯାୟୀ କେତେ ବୟସ ତଳକୁ କୌଣସି ପିଲା କାରଖାନା କିମ୍ବା ଖଣିରେ କାମ କରିବା ପାଇଁ କିମ୍ବା ଅନ୍ୟ କୌଣସି ବିପଜ୍ଜନକ ନିୟୁକ୍ତିରେ ନିଯୋଜିତ ହେବେ ନାହିଁ?

- A) 12 ବର୍ଷ
- B) 14 ବର୍ଷ
- C) 16 ବର୍ଷ
- D) 18 ବର୍ଷ

10) In 2022, India has agreed to provide grant to which of the following countries to implement a 'Unitary Digital Identity framework', modelled on the Aadhaar card?

- A) Bhutan
- B) Sri Lanka
- C) Afghanistan
- D) Myanmar

10) 2022 ରେ, ଆଧାର କାର୍ଡରେ ମଡେଲ୍ ହୋଇଥିବା 'ୟୁନିଟାରୀ ଡିଜିଟାଲ୍ ପରିଚୟ ଢାଞ୍ଚା'କୁ କାର୍ଯ୍ୟକାରୀ କରିବା ପାଇଁ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ଦେଶକୁ ଅନୁଦାନ ପ୍ରଦାନ କରିବାକୁ ଭାରତ ରାଜି ହୋଇଛି?

- A) ଭୁଟାନ
- B) ଶ୍ରୀଲଙ୍କା
- C) ଆଫଗାନିସ୍ତାନ
- D) ମିଆଁମାର

11) In July 2021, the 'Ministry of Cooperation' which will provide a separate administrative, legal and policy framework for strengthening the cooperative movement in the country was formed. Who is first Minister to head this ministry?

- A) Nitin Gadkari
- B) Prahlad Joshi
- C) Jyotiraditya Scindia
- D) Amit Shah

11) ଜୁଲାଇ 2021 ରେ, 'ସହକାରିତା ମନ୍ତ୍ରାଳୟ' ଗଠିତ ହୋଇଥିଲା ଯାହା ଦେଶରେ ସହଯୋଗୀ ଆନ୍ଦୋଳନକୁ ମଜବୁତ କରିବା ପାଇଁ ଏକ ପୃଥକ ପ୍ରଶାସନିକ, ଆଇନଗତ ଏବଂ ନୀତିଗତ ଢାଞ୍ଚା ପ୍ରଦାନ କରିବା ଏହି ମନ୍ତ୍ରାଳୟର ମୁଖ୍ୟ ହେବା ପାଇଁ ପ୍ରଥମ ମନ୍ତ୍ରୀ କିଏ?

- A) ନିତିନ ଗଡକରୀ
- B) ପ୍ରହ୍ଲାଦ ଯୋଶୀ
- C) ଜ୍ୟୋତିରାଦିତ୍ୟ ସିନ୍ଦିଆ
- D) ଅମିତ ଶାହା

12) Which is the term for 'the ratio of the HDIs calculated separately for females and males'?

- A) Gross Developmental Index
- B) Gender Development Index
- C) Gross Disparity Index
- D) Gender Disparity Index

12) ମହିଳା ଏବଂ ପୁରୁଷମାନଙ୍କ ପାଇଁ ପୃଥକ ଭାବରେ ଗଣନା କରାଯାଇଥିବା ଏଡିଆଇର ଅନୁପାତ' ପାଇଁ ଶବ୍ଦଟି କଣ?

- A) ମୋଟ ବିକାଶ ସୂଚକାଙ୍କ
- B) ଲିଙ୍ଗ ବିକାଶ ସୂଚକାଙ୍କ
- C) ମୋଟ ଭିନ୍ନତା ସୂଚକାଙ୍କ
- D) ଲିଙ୍ଗଗତ ଭିନ୍ନତା ସୂଚକାଙ୍କ

13) Which of the following options is CORRECT with reference to the time taken by the earth to rotate around its own axis?

- A) 365 days
- B) 30 days
- C) 24 hours
- D) 12 hours

13) ପୃଥିବୀ ନିଜସ୍ୱ ଅକ୍ଷ ଚାରିପଟେ ଘୂର୍ଣ୍ଣନ କରିବା ପାଇଁ ନେଉଥିବା ସମୟ ସମ୍ବନ୍ଧରେ ନିମ୍ନଲିଖିତ ବିକଳ୍ପଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁଟି ଠିକ୍ ଅଟେ?

- A) 365 ଦିନ
- B) 30 ଦିନ
- C) 24 ଘଣ୍ଟା
- D) 12 ଘଣ୍ଟା

14) Who among the following is popularly known as the "Iron man of India"?

- A) Bal Gangadhar Tilak
- B) Mahatma Gandhi
- C) Jawaharlal Nehru
- D) Sardar Vallabhbhai Patel

14) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କିଏ "ଆଇରନ୍ ମ୍ୟାନ୍ ଅଫ୍ ଇଣ୍ଡିଆ" ଭାବରେ ଲୋକପ୍ରିୟ?

- A) ବାଳ ଗଙ୍ଗାଧର ତିଳକ
- B) ମହାତ୍ମା ଗାନ୍ଧୀ
- C) ଜବାହରଲାଲ୍ ନେହେରୁ
- D) ସର୍ଦ୍ଦାର ବଲ୍ଲଭଭାଇ ପଟେଲ

15) Which of the following is INCORRECT answer with respect to factors affecting the Climate of India?

- A) Population Density
- B) Altitude of place
- C) Distance from the Sea
- D) Mountain Ranges

15) ଭାରତର ଜଳବାୟୁକୁ ପ୍ରଭାବିତ କରୁଥିବା କାରକ ଗୁଡ଼ିକ ବିଷୟରେ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଭୁଲ ଉତ୍ତର ଅଟେ?

- A) ଜନସଂଖ୍ୟାର ଘନତା
- B) ସ୍ଥାନର ଉଚ୍ଚତା
- C) ସମୁଦ୍ରଠାରୁ ଦୂରତା
- D) ପର୍ବତମାଳା

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Section 2 - Paper I Reasoning Ability

No. of Questions: 10

16) If a student had five hours of homework and has worked for three and a half hours, what part of his homework is yet to be done?

- A) 1/3 part
- B) 2/3 part
- C) 3/10 part
- D) 2/5 part

16) ଯଦି ଜଣେ ଛାତ୍ରକୁ 5ଘଣ୍ଟା ହୋମୱାର୍କ କରିବାର ଅଛି ଏବଂ ସେ ସାତେ 3 ଘଣ୍ଟା ପାଇଁ ହୋମୱାର୍କ କରନ୍ତି, ତେବେ ତାଙ୍କର ହୋମୱାର୍କର କେତେ ଅଂଶ ବାକି ରହିଛି?

- A) 1/3 ଅଂଶ
- B) 2/3 ଅଂଶ
- C) 3/10 ଅଂଶ
- D) 2/5 ଅଂଶ

17) Following are the conditions for selecting Manager – Accounts in an organization.

The candidate must:

- i) Be at least 28 years and not more than 33 years as on 01/06/2010.
- ii) Be a graduate with at least 55% marks.
- iii) Be a post graduate degree/diploma holder in financial management with at least 60% marks.
- iv) Have post qualification work experience of at least seven years in the finance department of organization.
- v) Have secured 40% marks in the personal interview.

In the case of a candidate who satisfies all the conditions

EXCEPT:

- A) (iii), but has completed CA/ICWA/CFA after his/her graduation, the case is to be referred to Executive Director – Finance.
- B) (v), but has secured at least 35% marks in the personnel interview and at least 65% marks in graduation, the case is to be referred to General Manager – Finance.

In each of the questions given below, detailed information about one candidate is given. You have to take one of the following courses of actions based on the information provided and the above conditions and sub-conditions. You are not to assume anything other than the information provided in each question. All these cases are given to you as on 1/6/2010.

Mark Answer as (1) If the case is to be referred to Executive Director - Finance.

Mark Answer as (2) If the case is to be referred to General Manager - Finance.

Mark Answer as (3) If the candidate is to be selected.

Mark Answer as (4) If the candidate is not to be selected.

Subodh Saha has been working in the finance department of an organization for the past seven years after completing his post graduate degree in Financial Management with 60% marks. He has secured 53% marks in graduation and 40% marks in the personal interview. He was born on 8th may, 1984.

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

17) ନିମ୍ନରେ ଦିଆଯାଇଥିବା ସର୍ତ୍ତ ଅନୁଯାୟୀ ଗୋଟିଏ ଅନୁଷ୍ଠାନର ମ୍ୟାନେଜର -ଆକାଉଣ୍ଟସକୁ ଚୟନ କରାଯିବ।
ପ୍ରାର୍ଥୀ ହୋଇଥିବା ଆବଶ୍ୟକ :

- i) 01/06/2010 ସୁଦ୍ଧା ବୟସ ଅତିକମରେ 28 ବର୍ଷ ଏବଂ 33 ବର୍ଷରୁ ଅଧିକ ହୋଇନଥିବ।
ii) ଅତି କମରେ 55% ମାର୍କ ରଖିଥିବା ଜଣେ ଗ୍ରାଜୁଏଟ୍ ହୋଇଥିବେ।
iii) ଅତି କମରେ 60% ମାର୍କ ରଖିଥିବା ଫାଇନାନ୍ସିଆଲ୍ ମ୍ୟାନେଜମେଣ୍ଟରେ ପୋଷ୍ଟ ଗ୍ରାଜୁଏଟ୍ ଡିଗ୍ରୀ/ଡିପ୍ଲୋମାଧାରୀ ହୋଇଥିବେ।
iv) ଯୋଗ୍ୟତା ହାସଲ ପରେ ଅତିକମରେ ଏକ ଅନୁଷ୍ଠାନରୁ ଫାଇନାନ୍ସିଆଲ୍ ଡିପାର୍ଟମେଣ୍ଟରେ 7 ବର୍ଷର କାର୍ଯ୍ୟ ଅଭିଜ୍ଞତା ରହିଥିବ।
v) ସେ ବ୍ୟକ୍ତିଗତ ସାକ୍ଷାତକାରରେ 40% ମାର୍କ ରଖିଥିବେ।

ଯଦି ଜଣେ ପ୍ରାର୍ଥୀ ସମସ୍ତ ସର୍ତ୍ତାବଳି ପୂରଣ କରୁଥାନ୍ତି:

- A) ଉପରୋକ୍ତ (iii) ବ୍ୟତୀତ, କିନ୍ତୁ ସେ ତାଙ୍କର ସ୍ନାତକ ପରେ CA/ICWA/CFA ସମ୍ପୂର୍ଣ୍ଣ କରିଛନ୍ତି କିନ୍ତୁ ଏହି ଘଟଣା ଏକଜିକ୍ୟୁଟିଭ୍ ଡାଇରେକ୍ଟର-ଫାଇନାନ୍ସିଆଲ୍ ନିକଟକୁ ପଠାଇ ଦିଆଯିବ।
B) ଉପରୋକ୍ତ (v) ବ୍ୟତୀତ, କିନ୍ତୁ ସେ ସେ ବ୍ୟକ୍ତିଗତ ସାକ୍ଷାତକାରରେ ଅତିକମରେ 35% ମାର୍କ ରଖିଛନ୍ତି ଏବଂ ସ୍ନାତକରେ ଅତିକମରେ 65% ମାର୍କ ରଖିଛନ୍ତି, ତାଙ୍କ ଘଟଣାକୁ ଜେନେରାଲ୍ ମ୍ୟାନେଜର୍ -ଫାଇନାନ୍ସିଆଲ୍ ନିକଟକୁ ପଠାଇ ଦିଆଯିବ।

ନିମ୍ନରେ ଦିଆଯାଇଥିବା ପ୍ରତିଟି ପ୍ରଶ୍ନରେ ଜଣେ ପ୍ରାର୍ଥୀଙ୍କର ପୁଞ୍ଜୀନୁପୁଞ୍ଜି ସୂଚନା ଦିଆଯାଇଛି। ଆପଣଙ୍କୁ ଦିଆଯାଇଥିବା ସୂଚନା ଓ ଉପରୋକ୍ତ ସର୍ତ୍ତାବଳି ତଥା ଉପସର୍ତ୍ତାବଳି ଅନୁଯାୟୀ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ ଗୋଟିଏ କାର୍ଯ୍ୟାନୁଷ୍ଠାନ ଗ୍ରହଣ କରିବାକୁ ହେବ। ଆପଣଙ୍କୁ ପ୍ରତିଟି ପ୍ରଶ୍ନରେ ଦିଆଯାଇଥିବା ସୂଚନା ବ୍ୟତୀତ ଅନ୍ୟ କୌଣସି ବିଷୟ ଧରି ନେବାକୁ କିମ୍ବା ଅନୁମାନ ଲଗାଇବାକୁ ହେବ ନାହିଁ ଏ ସମସ୍ତ ଘଟଣା ଆପଣଙ୍କୁ 1/6/2016 ଅନୁଯାୟୀ ଦିଆଯାଇଛି।

- ଯଦି ଏହି ଘଟଣାକୁ ଏକଜିକ୍ୟୁଟିଭ୍ ଡାଇରେକ୍ଟର-ଫାଇନାନ୍ସିଆଲ୍ ପାଖକୁ ପଠାଯିବ ଉତ୍ତରକୁ (1) ଭାବରେ ଚିହ୍ନିତ କରନ୍ତୁ।
ଯଦି ଏହି ଘଟଣାକୁ ଜେନେରାଲ୍ ମ୍ୟାନେଜର୍ -ଫାଇନାନ୍ସିଆଲ୍ ପାଖକୁ ପଠାଯିବ ଉତ୍ତରକୁ (2) ଭାବରେ ଚିହ୍ନିତ କରନ୍ତୁ।
ଯଦି ଏହି ପ୍ରାର୍ଥୀ ବଛାଯିବେ ତେବେ ଉତ୍ତର (3) ଚିହ୍ନିତ କରନ୍ତୁ।
ଯଦି ଏହି ପ୍ରାର୍ଥୀ ବଛାଯିବେ ନାହିଁ ତେବେ ଉତ୍ତର (4) ଚିହ୍ନିତ କରନ୍ତୁ।

ସୁବୋଧ ସାହା 60% ମାର୍କ ରଖି ଫାଇନାନ୍ସିଆଲ୍ ମ୍ୟାନେଜମେଣ୍ଟରେ ସ୍ନାତକ ଡିଗ୍ରୀ ସମ୍ପୂର୍ଣ୍ଣ କରିବା ପରେ ଏକ ଅନୁଷ୍ଠାନରେ ଫାଇନାନ୍ସିଆଲ୍ ବିଭାଗରେ ରତ ସାତ ବର୍ଷ ହେଲା କାମ କରୁଛନ୍ତି। ସେ ସ୍ନାତକ ପରୀକ୍ଷାରେ 53% ମାର୍କ ଓ ବ୍ୟକ୍ତିଗତ ସାକ୍ଷାତକାରରେ 40% ମାର୍କ ରଖିଛନ୍ତି। ସେ 1984 ମସିହା ମେ ମାସ 8 ତାରିଖରେ ଜନ୍ମଗ୍ରହଣ କରିଥିଲେ।

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





18) 'B' said to 'D', "My wife has no brothers and sisters, but the lady in the photograph is the only aunt of my wife's son". How is the lady in the photograph related to 'B'?

- A) Daughter
- B) Sister
- C) Mother
- D) Grandmother

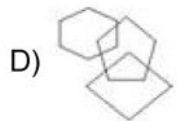
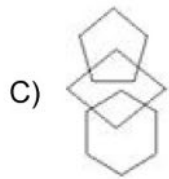
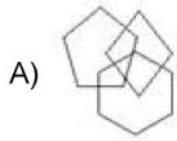
18) 'B' କହିଲେ 'D'କୁ, "ମୋ ସ୍ତ୍ରୀଙ୍କର କେହି ଭାଇ କିମ୍ବା ଭଉଣୀ ନଥିଲେ କିନ୍ତୁ ଏହି ଫଟୋଗ୍ରାଫରେ ଥିବା ମହିଳା ହେଉଛନ୍ତି ମୋ ସ୍ତ୍ରୀଙ୍କ ପୁଅର ଏକମାତ୍ର ପିତାମାତା। 'B' ଫଟୋଗ୍ରାଫରେ ଥିବା ମହିଳାଙ୍କ ସହ କିପରି ସମ୍ପର୍କିତ?"

- A) ଝିଅ
- B) ଭଉଣୀ
- C) ମାଆ
- D) ଜେଜେମାଆ

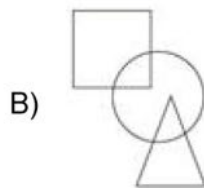
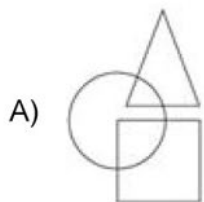
19) Choose the odd one out.

- A) 
- B) 
- C) 
- D) 

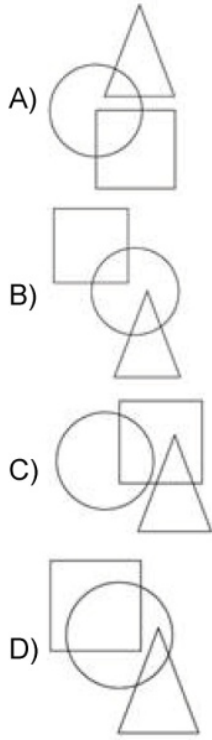
19) ଭିନ୍ନଟିକୁ ବାଛନ୍ତୁ।



20) . Which is the odd one out among the four?



20) ଏହି ଚାରୋଟି ମଧ୍ୟରୁ କେଉଁଟି ଭିନ୍ନ?



21) If P and Q together can complete a job in 3 days while P alone can complete the same in 12 days, then how many days are required for Q alone to complete the job?

- A) 3 days
B) 4 days
C) 6 days
D) 12 days

21) ଯଦି P ଏବଂ Q ମିଳିତ ଭାବରେ ଗୋଟିଏ କାମକୁ 13 ଦିନରେ ଶେଷ କରିପାରନ୍ତି, ଯେତେବେଳେ କି କେବଳ P ଏକାକୀ ସମାନ କାମକୁ 12 ଦିନରେ ଶେଷ କରିପାରନ୍ତି ତେବେ କେବଳ Q ଏକାକୀ ଏହି କାର୍ଯ୍ୟକୁ ଶେଷ କରିବା ପାଇଁ କେତେଦିନ ଆବଶ୍ୟକ କରିଥାନ୍ତି?

- A) 3 ଦିନ
B) 4 ଦିନ
C) 6 ଦିନ
D) 12 ଦିନ

22) The diesel consumption of 9 gensets is 24 liters for working 8 hours a day. How much diesel would be consumed by 8 new engines working for 13 hours a day provided 3 old engines consume as much as 4 new engines?

- A) 24 liters
- B) 25 liters
- C) 26 liters
- D) 27 liters

22) ଦିନରେ 8 ଘଣ୍ଟା କାର୍ଯ୍ୟ କରିବା ପାଇଁ 9ଟି ଜେନେରେଟର୍ ସେଟର ଡିଜେଲ୍ ଖର୍ଚ୍ଚ 24 ଲିଟର ହୋଇଥାଏ। ତେବେ 8ଟି ନୂଆ ଇଞ୍ଜିନ୍ ଦିନକୁ 13 ଘଣ୍ଟା କାର୍ଯ୍ୟ କରିବା ସହିତ ଡିଜେଲ୍ ଖର୍ଚ୍ଚ କେତେ ହେବ, ଯେତେବେଳେ କି 3ଟି ପୁରୁଣା ଇଞ୍ଜିନ୍ରେ ଯେତିକି ଡିଜେଲ୍ ଖର୍ଚ୍ଚ ହୁଏ, 4ଟି ନୂଆ ଇଞ୍ଜିନ୍ରେ ସେତିକି ଡିଜେଲ୍ ଖର୍ଚ୍ଚ ହୋଇଥାଏ?

- A) 24 ଲିଟର
- B) 25 ଲିଟର
- C) 26 ଲିଟର
- D) 27 ଲିଟର

23) Following are the conditions for admitting students for graduate course in Architecture in a college:

The students must:

- i) Be at least 17 years old as on 1/7/2006.
- ii) Have secured at least 50% overall marks in XII Std. final examination.
- iii) Have secured at least 60% aggregate marks in Physics, Chemistry and Mathematics in XII Std. final examination.
- iv) Have secured at least 55% marks in the entrance examination.
- v) Pay ₹ 60,000/- annual fee at the time of admission.

If students satisfy all the above conditions except.....

- a) (iii), but has secured at least 70% overall marks in XII Std. final examination, his/her case is to be referred to Principal of the college.
- b) (v), but can pay at least 60% of the annual fee at the time of admission and the remaining amount within six months, his / her case is to be referred to Vice Principal of the college.

In each of the questions given below, detailed information about one student is given. You have to take one of the following courses of actions based on the information provided and the above conditions and sub-conditions. You are not to assume anything other than the information provided in each question. All these cases are given to you as on 1/7/2006.

Mark Answer as (1) If the data provided is not adequate to take a decision.

Mark Answer as (2) If the case is to be referred to the Principal.

Mark Answer as (3) If the student is not to be admitted.

Mark Answer as (4) If the case is to be referred to the Vice Principal.

Shikha Gupta has secured 60% average marks in Physics, Chemistry and Mathematics and 58% overall marks in XII Std. final examination. She was born on 14th February 1988. She has secured 60% marks in the entrance test. She can pay ₹ 38,000/- at the time of admission and the remaining amount within two

weeks of admission.

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

23) ନିମ୍ନରେ ଏକ ମହାବିଦ୍ୟାଳୟରେ ଆର୍କିଟେକଚରରେ ସ୍ନାତକ ପାଠ୍ୟକ୍ରମରେ ଛାତ୍ରଛାତ୍ରୀଙ୍କ ନାମ ଲେଖାଇବା ପାଇଁ ସର୍ତ୍ତାବଳି ଦର୍ଶାଯାଇଛି :

ଏହି ଛାତ୍ରଛାତ୍ରୀ ହୋଇଥିବା ଆବଶ୍ୟକ :

- i) 1/7/2006 ସୁଦ୍ଧା ଅତିକମରେ 17 ବର୍ଷ ବୟସର ହୋଇଥିବେ।
- ii) ସେ XII Std ର ଶେଷ ପରୀକ୍ଷାରେ ଅତିକମରେ 50% ସାମଗ୍ରୀକ ଭାବରେ ମାର୍କ ରଖିଥିବେ।
- iii) ସେ XII Std ର ଶେଷ ପରୀକ୍ଷାରେ ପଦାର୍ଥ ବିଜ୍ଞାନ, ରସାୟନ ବିଜ୍ଞାନ ଏବଂ ଅଙ୍କରେ ଅତିକମରେ 60% ଏଗ୍ରିଗେଟ୍ ମାର୍କ ରଖିଥିବେ।
- iv) ସେ ପ୍ରବେଶିକା ପରୀକ୍ଷାରେ ଅତିକମରେ 55% ମାର୍କ ରଖିଥିବେ।
- v) ନାମଲେଖା ସମୟରେ ₹ 60,000/- ବାର୍ଷିକ ଦେୟ ଫିଠ କରିବେ।

ଯଦି ଛାତ୍ରଛାତ୍ରୀମାନେ ଉପରୋକ୍ତ ସମସ୍ତ ସର୍ତ୍ତାବଳି ପୂରଣ କରନ୍ତି.....

- a) ଉପରୋକ୍ତ (iii) ବ୍ୟତୀତ, ସେ XII Stdର ଶେଷ ପରୀକ୍ଷାରେ ସାମଗ୍ରୀକ ଭାବରେ 70% ମାର୍କ ରଖିଛନ୍ତି, ତାଙ୍କ ଘଟଣାକୁ ମହାବିଦ୍ୟାଳୟର ଅଧ୍ୟକ୍ଷ ନିକଟକୁ ପଠାଯିବ।
- b) ଉପରୋକ୍ତ (v) ବ୍ୟତୀତ, ନାମଲେଖା ସମୟରେ ବାର୍ଷିକ ଦେୟର ଅତିକମରେ 60% ଫିଠ କରିପାରିବେ ଏବଂ ଅବଶିଷ୍ଟ ପରିମାଣ 6 ମାସ ମଧ୍ୟରେ ଫିଠ କରିପାରିବେ, ତାଙ୍କ ଘଟଣାକୁ ମହାବିଦ୍ୟାଳୟର ଉପ ଅଧ୍ୟକ୍ଷ ନିକଟକୁ ପଠାଯିବ।

ନିମ୍ନରେ ଦିଆଯାଇଥିବା ପ୍ରତିଟି ପ୍ରଶ୍ନରେ ଜଣେ ଛାତ୍ରଙ୍କର ପୁଞ୍ଜୀନୁପୁଞ୍ଜୀ ସୂଚନା ଦିଆଯାଇଛି। ଆପଣଙ୍କୁ ଦିଆଯାଇଥିବା ସୂଚନା ଓ ଉପରୋକ୍ତ ସର୍ତ୍ତାବଳି ତଥା ଉପସର୍ତ୍ତାବଳି ଅନୁଯାୟୀ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ ଗୋଟିଏ କାର୍ଯ୍ୟାନୁଷ୍ଠାନ ଗ୍ରହଣ କରିବାକୁ ହେବ। ଆପଣଙ୍କୁ ପ୍ରତିଟି ପ୍ରଶ୍ନରେ ଦିଆଯାଇଥିବା ସୂଚନା ବ୍ୟତୀତ ଅନ୍ୟ କୌଣସି ବିଷୟ ଧରି ନେବାକୁ କିମ୍ବା ଅନୁମାନ ଲଗାଇବାକୁ ହେବ ନାହିଁ। ଏ ସମସ୍ତ ଘଟଣା ଆପଣଙ୍କୁ 1/7/2006 ଅନୁଯାୟୀ ଦିଆଯାଇଛି।

ଯଦି ନିଷ୍ପତ୍ତି ନେବା ପାଇଁ ଦିଆଯାଇଥିବା ତଥ୍ୟ ଯଥେଷ୍ଟ ନୁହେଁ ଉତ୍ତରକୁ (1) ଭାବରେ ଚିହ୍ନିତ କରନ୍ତୁ।

ଯଦି ଏହି ଘଟଣାକୁ ଅଧ୍ୟକ୍ଷଙ୍କ ପାଖକୁ ପଠାଯିବ ଉତ୍ତରକୁ (2) ଭାବରେ ଚିହ୍ନିତ କରନ୍ତୁ।

ଯଦି ଛାତ୍ର ଦାଖଲ ହେବେ ନାହିଁ ତେବେ ଉତ୍ତର (3) ଚିହ୍ନିତ କରନ୍ତୁ।

ଯଦି ଏହି ଘଟଣାକୁ ଉପଅଧ୍ୟକ୍ଷଙ୍କ ପାଖକୁ ପଠାଯିବ ଉତ୍ତରକୁ (4) ଭାବରେ ଚିହ୍ନିତ କରନ୍ତୁ।

ଶିକ୍ଷା ଗୁପ୍ତା XII Std ର ଶେଷ ପରୀକ୍ଷାରେ ପଦାର୍ଥ ବିଜ୍ଞାନ, ରସାୟନ ବିଜ୍ଞାନ ଏବଂ ଅଙ୍କରେ ହାରାହାରି 60% ମାର୍କ ରଖିଛନ୍ତି ଏବଂ ସାମଗ୍ରୀକ ଭାବରେ 58% ମାର୍କ ରଖିଛନ୍ତି। ସେ ଫେବୃୟାରୀ 14 ତାରିଖ 1988 ମସିହାରେ ଜନ୍ମଗ୍ରହଣ କରିଛନ୍ତି। ସେ ପ୍ରବେଶିକା ପରୀକ୍ଷାରେ 60% ମାର୍କ ରଖିଛନ୍ତି। ସେ ନାମ ଲେଖା ସମୟରେ ₹ 38,000/- ଫିଠ କରିପାରିବେ ଏବଂ ଅବଶିଷ୍ଟ ପରିମାଣ ନାମ ଲେଖାଇବାର ଦୁଇ ସପ୍ତାହ ମଧ୍ୟରେ ଫିଠ କରିପାରିବେ।

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

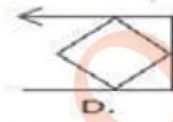
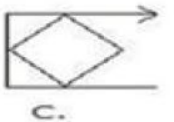
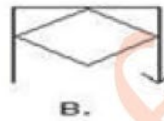
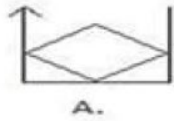
24) If M is the brother of N; N is the sister of O; and O is the father of P, then how is M related to P?

- A) Niece
- B) Cousin
- C) Uncle
- D) Not sufficient information

24) ଯଦି M ହେଉଛନ୍ତି Nଙ୍କର ଭାଇ; N ହେଉଛନ୍ତି O କର ଭଉଣୀ; ଏବଂ O ହେଉଛନ୍ତି Pଙ୍କର ବାପା, ତେବେ P କିପରି ଭାବରେ M କୁ ସହିତ ସମ୍ପର୍କିତ?

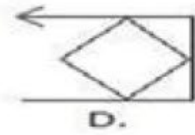
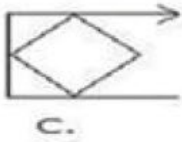
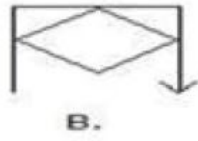
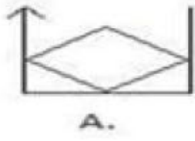
- A) ଝିଆରୀ
- B) ସମ୍ପର୍କୀୟ ଭାଇ/ଭଉଣୀ
- C) କାକା
- D) ସୁରନା ଯଥେଷ୍ଟ ନୁହେଁ

25) Which is the odd one out among the four?



- A) A
- B) B
- C) C
- D) D

25) ଏହି ଚାରୋଟି ମଧ୍ୟରୁ କେଉଁଟି ଭିନ୍ନ?



- A) A
- B) B
- C) C
- D) D

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Section 3 - Paper I Computer Literacy

No. of Questions: 10

26) What is the purpose of Bullet and Numbering in MS Word?

- A) For Canvassing
- B) For assigning page numbers
- C) For creating a list
- D) For creating reference

26) MS-Word ରେ ବୁଲେଟ୍ ଏବଂ ନମ୍ବରିଂର ଉଦ୍ଦେଶ୍ୟ କଣ?

- A) କାନଭାସିଂ ପାଇଁ
- B) ପୃଷ୍ଠା ନମ୍ବର ନ୍ୟସ୍ତ କରିବା ପାଇଁ
- C) ଏକ ତାଲିକା ସୃଷ୍ଟି କରିବା ପାଇଁ
- D) ରେଫରେନ୍ସ ସୃଷ୍ଟି କରିବା ପାଇଁ

27) Which drive usually stores the OS of a computer ?

- A) C Drive
- B) A Drive
- C) Desktop Drive
- D) Reomvable Drive

27) କେଉଁ ଡ୍ରାଇଭ୍ ସାଧାରଣତଃ କମ୍ପ୍ୟୁଟରର ଓଏସ୍ ଷ୍ଟୋର୍ କରେ?

- A) C ଡ୍ରାଇଭ୍
- B) A ଡ୍ରାଇଭ୍
- C) ଡେସ୍କଟପ୍ ଡ୍ରାଇଭ୍
- D) ରିମୁଭେବଲ୍ ଡ୍ରାଇଭ୍

28) With reference to computers which of the following statements is FALSE about a virus?

- A) A virus is a program that replicates by being copied or initiating its copying to another program, computer boot sector or document
- B) Viruses never harm or damage the computer system
- C) Viruses can be transmitted as attachments to an e-mail note or in a downloaded file, or are present on a diskette or CD
- D) Some viruses wreak their effect as soon as their code is executed; other viruses lie dormant until circumstances cause their code to be executed by the computer

28) କମ୍ପ୍ୟୁଟର ସହଜରେ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁ ଉକ୍ତି ଏକ ଭାଇରସ୍ ବିଷୟରେ ମିଥ୍ୟା ଅଟେ?

- A) ଏକ ଭାଇରସ୍ ହେଉଛି ଏକ ପ୍ରୋଗ୍ରାମ୍ ଯାହା ଅନ୍ୟ ପ୍ରୋଗ୍ରାମ୍, କମ୍ପ୍ୟୁଟର ବୁଟ୍ ସେକ୍ଟର କିମ୍ବା ଡାଟାଫାଇଲକୁ କପି କରି କିମ୍ବା ଏହାର କପି ଆରମ୍ଭ କରି ନକଲ କରେ
- B) ଭାଇରସ୍ କମ୍ପ୍ୟୁଟର ସିଷ୍ଟମକୁ କେବେ ବି କ୍ଷତି କିମ୍ବା ନଷ୍ଟ କରିନଥାଏ।
- C) ଭାଇରସ୍ ଏକ ଇ-ମେଲ୍ ନୋଡ୍ କିମ୍ବା ଡାଉନଲୋଡ୍ ହୋଇଥିବା ଫାଇଲ୍ କୁ ଆଗାତମେଣ୍ଟ ଭାବରେ ସଂକ୍ରମିତ ହୋଇପାରିବ କିମ୍ବା ଏକ ଡିସ୍କେଟ୍ କିମ୍ବା ସିଡିରେ ଉପସ୍ଥିତ ଥାଏ।
- D) କିଛି ଭାଇରସ୍ ସେମାନଙ୍କର କୋଡ୍ କାର୍ଯ୍ୟକାରୀ ହେବା ମାତ୍ରେ କ୍ଷତି କରିଥାଏ; କୌଣସି ପରିସ୍ଥିତିରେ କମ୍ପ୍ୟୁଟର ଦ୍ଵାରା ସେମାନଙ୍କର କୋଡ୍ କାର୍ଯ୍ୟକାରୀ ନହେବା ପର୍ଯ୍ୟନ୍ତ ଅନ୍ୟ ଭାଇରସ୍ ସୁସ୍ଥ ରହିଥାଏ।

29) What does 'WWW' stand for?

- A) Wide World Web
- B) Winding Web World
- C) World Wide Web
- D) Wide Web World

29) 'WWW' କଣ ଅଟେ?

- A) Wide World Web
- B) Winding Web World
- C) World Wide Web
- D) Wide Web World

30) Which of the following is the parent company of Facebook, Instagram and Whatsapp?

- A) Apple
- B) Alphabet
- C) Meta
- D) Microsoft

30) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି FACEBOOK, INSTAGRAM, WHATSAPP ର ମୂଳ କମ୍ପାନୀ?

- A) Apple
- B) Alphabet
- C) Meta
- D) Microsoft

31) Which of the following is the correct default name for the PowerPoint presentation?

- A) PP1
- B) PowerPoint1
- C) Ppt1
- D) Presentation1

31) PowerPoint Presentation ପାଇଁ ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ସଠିକ୍ ଡିଫଲ୍ଟ ନାମ ଅଟେ?

- A) PP1
- B) PowerPoint1
- C) Ppt1
- D) Presentation1

32) Which of the following has the highest storage capacity ?

- A) CD
- B) DVD
- C) Floppy Disk
- D) Blue Ray Disk

32) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟିର ସର୍ବୋଚ୍ଚ ସ୍ଥାନାଧାରଣ କ୍ଷମତା ଅଛି?

- A) CD
- B) DVD
- C) Floppy Disk
- D) Blue Ray Disk



33) What country does ".in" stand for in a web address?

- A) indonesia
- B) India
- C) Incomplete
- D) innovative

33) ଏକ ୱେବ୍ ଠିକଣାରେ କେଉଁ ଦେଶ ପାଇଁ ".in" ବ୍ୟବହୃତ ହୁଏ ?

- A) Indonesia
- B) India
- C) Incomplete
- D) innovative

34) Which of the following is an android emergency application, which can send a distress call or emergency message to a specified contact or group in an emergency situation faced by a woman or any other individual in general.

- A) NIRBHAYA
- B) DAMINI
- C) JYOTI
- D) JAGRUTI

34) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଏକ ଆଣ୍ଡ୍ରଏଡ୍ ଜରୁରୀକାଳୀନ ଆପ୍ଲିକେସନ୍, ଯାହା ସାଧାରଣତଃ ଜଣେ ମହିଳା କିମ୍ବା ଅନ୍ୟ କୌଣସି ବ୍ୟକ୍ତି ସମ୍ମୁଖୀନ ହେଉଥିବା ଜରୁରୀକାଳୀନ ପରିସ୍ଥିତିରେ ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ସମ୍ପର୍କିତ କିମ୍ବା ଗୁପ୍ତ କୁ ଏକ ଅସହାୟ କଲ୍ କିମ୍ବା ଜରୁରୀକାଳୀନ ସନ୍ଦେଶ ପ୍ରେରଣ କରିପାରେ।

- A) NIRBHAYA
- B) DAMINI
- C) JYOTI
- D) JAGRUTI

35) What is the abbreviation of Cc with respect to e-mailing?

- A) Copied Carbon
- B) Carbon Copied
- C) Carbon Copy
- D) Coped Carbon

35) ଇ-ମେଲିଂ ସମ୍ବନ୍ଧରେ CC ର ପୁରାଣାମ କଣ?

- A) Copied Carbon
- B) Carbon Copied
- C) Carbon Copy
- D) Coped Carbon



Section 4 - Paper I Pedagogy and Evaluation

No. of Questions: 15

36) A process of incorporating new objects and experiences into the existing schema is known as

- A) Adaptation
- B) Assimilation
- C) Accommodation
- D) Equilibrium

36) ବିଦ୍ୟମାନ ମନୋଚିତ୍ରରେ ନୂତନ ବସ୍ତୁ ଏବଂ ଅଭିଜ୍ଞତାକୁ ଅନ୍ତର୍ଭୁକ୍ତ କରିବାର ଏକ ପ୍ରକ୍ରିୟା ନିମ୍ନଲିଖିତ ଭାବେ ଜଣାଶୁଣା

- A) ଆନୁକୂଲ୍ୟ
- B) ନିଜସ୍ଵୀକରଣ
- C) ଉପଯୋଜନ
- D) ସନ୍ତୁଳନ

37) Equilibration, indicates the balance between

- A) assimilation and equilibrium
- B) assimilation and adaptation
- C) accommodation and adaptation
- D) assimilation and accommodation

37) ସମତୁଲ୍ୟତା, କାହା କାହା ମଧ୍ୟରେ ସନ୍ତୁଳନକୁ ସୂଚିତ କରେ?

- A) ନିଜସ୍ଵୀକରଣ ଏବଂ ଭାରସାମ୍ୟ
- B) ନିଜସ୍ଵୀକରଣ ଏବଂ ଆନୁକୂଲ୍ୟ
- C) ଉପଯୋଜନ ଏବଂ ଆନୁକୂଲ୍ୟ
- D) ନିଜସ୍ଵୀକରଣ ଏବଂ ଉପଯୋଜନ

38) Which of the following is NOT a characteristic of evaluation?

- A) Validity
- B) Subjectivity
- C) Reliability
- D) Usability

38) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ମୂଲ୍ୟାୟନର ବୈଶିଷ୍ଟ୍ୟ ନୁହେଁ?

- A) ବୈଧତା
- B) ବିଷୟବସ୍ତୁତା
- C) ନିର୍ଭରଯୋଗ୍ୟତା
- D) ଉପଯୋଗିତା

39) Which of the following is an example of Summative Assessment

- A) Pre-tests (on content and abilities)
- B) End-of-term or midterm exams
- C) Discussion board responses
- D) Self-assessments

39) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ସମାପ୍ତି ସୂଚକ ନିର୍ଦ୍ଧାରଣର ଏକ ଉଦାହରଣ?

- A) ପୂର୍ବ-ପରୀକ୍ଷା (ବିଷୟବସ୍ତୁ ଏବଂ ଦକ୍ଷତା ଉପରେ)
- B) ଅବଧି ଶେଷ କିମ୍ବା ମଧ୍ୟବର୍ତ୍ତୀ କାଳୀନ ପରୀକ୍ଷା
- C) ଆଲୋଚନା, ବୋର୍ଡର ପ୍ରତିକ୍ରିୟା
- D) ଆତ୍ମ-ନିର୍ଦ୍ଧାରଣ

40) Examine the following statements and identify the TRUE statement

I. Learning is a universal and a continuous process.

II. Learning isn't goal directed.

- A) Only I is true
- B) Only II is true
- C) Both are true
- D) Neither of them is true

40) ନିମ୍ନଲିଖିତ ଉଚ୍ଛିଗୁଡ଼ିକ ଯାଞ୍ଚ କରନ୍ତୁ ଏବଂ ସତ୍ୟତା ଥିବା ଉଚ୍ଛିଟିକୁ ଚିହ୍ନଟ କରନ୍ତୁ।

I. ଶିକ୍ଷଣ ଏକ ସର୍ବଜନୀନ ଏବଂ ଏକ ନିରନ୍ତର ପ୍ରକ୍ରିୟା ଅଟେ।

II. ଶିକ୍ଷଣ ଲକ୍ଷ୍ୟ ନିର୍ଦ୍ଦେଶିତ ନୁହେଁ।

- A) କେବଳ I ସତ୍ୟ ଅଟେ
- B) କେବଳ II ସତ୍ୟ ଅଟେ
- C) ଉଭୟ ସତ୍ୟ ଅଟେ
- D) ଉଭୟ ମଧ୍ୟରୁ କୌଣସିଟି ସତ୍ୟ ନୁହେଁ

41) Measurement is defined as a

- A) set of emotions to ascribe values to feelings
- B) set of rules for assigning numbers to represent objects, traits, attributes and behaviour
- C) set of ideologies to quantify emotions
- D) set of perspectives defining social norms

41) ପରିମାପର ବ୍ୟାଖ୍ୟା ହେଉଛି-

- A) ଭାବନାର ମୂଲ୍ୟ ବର୍ଣ୍ଣନା କରିବାକୁ ଭାବର ସେଟ୍
- B) ବସ୍ତୁ, ବିଶେଷତା, ବିଶେଷ ଗୁଣ ଏବଂ ଆଚରଣକୁ ପ୍ରତିନିଧିତ୍ୱ କରିବା ପାଇଁ ସଂଖ୍ୟା ନ୍ୟସ୍ତ କରିବାକୁ ନିୟମର ସେଟ୍
- C) ଭାବନାର ପରିମାଣ କରିବା ପାଇଁ ଆଦର୍ଶ ଗୁଡ଼ିକର ସେଟ୍
- D) ସାମାଜିକ ଆଦର୍ଶକୁ ବ୍ୟାଖ୍ୟା କରୁଥିବା ଦୃଷ୍ଟିକୋଣର ସେଟ୍

42) To facilitate learning for learners at different pace a teacher

- 1) Must never present a lot of concepts at a time.
- 2) Encourage learners to give examples based on their own experiences

- A) Only 1
- B) Both 1 and 2
- C) Only 2
- D) Neither 1 nor 2

42) ବିଭିନ୍ନ ଗତିରେ ଶିକ୍ଷାର୍ଥୀମାନଙ୍କ ଶିକ୍ଷଣକୁ ସୁଗମ କରିବା ପାଇଁ ଜଣେ ଶିକ୍ଷକ

- 1) ଏକ ସମୟରେ ଅନେକ ଧାରଣା ଉପସ୍ଥାପନ କରିବା ଜରୁରୀ ନୁହେଁ।
- 2) ଶିକ୍ଷାର୍ଥୀମାନଙ୍କୁ ସେମାନଙ୍କର ନିଜ ଅଭିଜ୍ଞତା ଉପରେ ଆଧାର କରି ଉଦାହରଣ ଦେବାକୁ ଉତ୍ସାହିତ କରନ୍ତି।

- A) କେବଳ 1
- B) ଉଭୟ 1 ଏବଂ 2
- C) କେବଳ 2
- D) 1 କିମ୍ବା 2 କୌଣସିଟି ନୁହେଁ

43) Which of the following statements is TRUE?

- 1) We all learn at the same pace.
- 2) Pace of learning is related to individuality

- A) Both 1 and 2
- B) Neither 1 nor 2
- C) Only 1
- D) Only 2

43) ନିମ୍ନଲିଖିତ ଉକ୍ତି ଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁଟି ସତ୍ୟ?

- 1) ଆମେ ସମସ୍ତେ ସମାନ ଗତିରେ ସିଖିବା।
- 2) ଶିକ୍ଷାଣର ଗତି ବ୍ୟକ୍ତିଗତତା ସହିତ ଜଡ଼ିତ।

- A) ଉଭୟ 1 ଏବଂ 2
- B) 1 କିମ୍ବା 2 କୌଣସିଟି ନୁହେଁ
- C) କେବଳ 1
- D) କେବଳ 2

44) Which of the following statements is NOT a teacher centered approach?

- A) Discovering
- B) Tutoring
- C) Lecturing
- D) Demonstrating

44) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଶିକ୍ଷକ କୈନ୍ଦ୍ରିକ ଆଭିମୁଖ୍ୟ ନୁହେଁ?

- A) ଆବିଷ୍କାର
- B) ଶିକ୍ଷାଦାନ
- C) ଅଧ୍ୟାପନା
- D) ପ୍ରଦର୍ଶନ

45) Students are being assessed on their ability to read a text accurately within a specified time. This is an example for

- A) Total assessment
- B) Critical assessment
- C) Criterion based assessment
- D) Knowledge based assessment

45) ଏକ ନିର୍ଦ୍ଦିଷ୍ଟ ସମୟ ମଧ୍ୟରେ ଏକ ପାଠକୁ ସଠିକ୍ ଭାବରେ ପଢ଼ିବାର କ୍ଷମତା ଉପରେ ଛାତ୍ରମାନଙ୍କୁ ମୂଲ୍ୟାଙ୍କନ କରାଯାଉଛି। ଏହା କାହାର ଏକ ଉଦାହରଣ?

- A) ସମଗ୍ର ନିର୍ଦ୍ଧାରଣ
- B) ସମୀକ୍ଷାତ୍ମକ ନିର୍ଦ୍ଧାରଣ
- C) ମାନଦଣ୍ଡ ଆଧାରିତ ନିର୍ଦ୍ଧାରଣ
- D) ଜ୍ଞାନ ଆଧାରିତ ନିର୍ଦ୍ଧାରଣ

46) Which of the following explains a Blue print?

- A) Blue print is a three-dimensional chart giving the placement of the objectives, content and form of questions
- B) Blue print is a two-dimensional chart giving the placement of the objectives, content and form of questions
- C) Blue print is a three-dimensional chart giving the placement of the objectives, content and form of answers
- D) Blue print is a two-dimensional chart giving the placement of the objectives, content and form of answers

46) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଏକ ବୃତ୍ତିକୁ ବ୍ୟାଖ୍ୟା କରେ?

- A) ବୃତ୍ତି ହେଉଛି ଏକ ତ୍ରୁ-ପରିବୃତ୍ତିୟ (ଅ-ତାଲମେନସନାଲ) ଚାର୍ଟ ଯାହା ଉଦ୍ଦେଶ୍ୟ, ବିଷୟବସ୍ତୁ ଏବଂ ପ୍ରଶ୍ନର ରୂପକୁ ଛାନିତ କରେ
- B) ବୃତ୍ତି ହେଉଛି ଏକ ଦ୍ୱି-ପରିବୃତ୍ତିୟ (ତ-ତାଲମେନସନାଲ) ଚାର୍ଟ ଯାହା ଉଦ୍ଦେଶ୍ୟ, ବିଷୟବସ୍ତୁ ଏବଂ ପ୍ରଶ୍ନର ରୂପକୁ ଛାନିତ କରେ
- C) ବୃତ୍ତି ହେଉଛି ଏକ ତ୍ରୁ-ପରିବୃତ୍ତିୟ (ଅ-ତାଲମେନସନାଲ) ଚାର୍ଟ ଯାହା ଉଦ୍ଦେଶ୍ୟ, ବିଷୟବସ୍ତୁ ଏବଂ ଉତ୍ତରର ରୂପକୁ ଛାନିତ କରେ
- D) ବୃତ୍ତି ହେଉଛି ଏକ ଦ୍ୱି-ପରିବୃତ୍ତିୟ (ତ-ତାଲମେନସନାଲ) ଚାର୍ଟ ଯାହା ଉଦ୍ଦେଶ୍ୟ, ବିଷୟବସ୍ତୁ ଏବଂ ଉତ୍ତରର ରୂପକୁ ଛାନିତ କରେ

47) Match the information given in Column I with information given in Column II.

Column I	Column II
1) Learner Centered Method	a) Inquiry Approach
2) Group Centered Method	b) Demonstration Method
3) Teacher Centered Method	c) Discussion Method

- A) 1-a, 2-c, 3-b
- B) 1-b, 2-c, 3-a
- C) 1-b, 2-a, 3-c
- D) 1-c, 2-b, 3-a

47) ଓଡ଼ିଆରେ ଦିଆଯାଇଥିବା ସୂଚନା ସହିତ ଓଡ଼ିଆରେ ସୂଚନାକୁ ମେଳ କରନ୍ତୁ।

ଓଡ଼ିଆ I	ଓଡ଼ିଆ II
1. ଶିକ୍ଷାର୍ଥୀ କୈନ୍ଦ୍ରିକ ପଦ୍ଧତି	a. ଅନୁସନ୍ଧାନ ଉପାଗମ
2. ଗୋଷ୍ଠୀ କୈନ୍ଦ୍ରିକ ପଦ୍ଧତି	b. ପ୍ରଦର୍ଶନ ପଦ୍ଧତି
3. ଶିକ୍ଷକ କୈନ୍ଦ୍ରିକ ପଦ୍ଧତି	c. ଆଲୋଚନା ପଦ୍ଧତି

- A) 1-a, 2-c, 3-b
- B) 1-b, 2-c, 3-a
- C) 1-b, 2-a, 3-c
- D) 1-c, 2-b, 3-a

48) Which of the following is a Learner Centered Method?

- A) Team-teaching
- B) Cooperative Learning
- C) Problem Solving
- D) Discussion Method

48) ନିମ୍ନଲିଖିତ ମଧ୍ୟରୁ କେଉଁଟି ଏକ ଶିକ୍ଷାର୍ଥୀ କୈନ୍ଦ୍ରିକ ପଦ୍ଧତି?

- A) ଗୋଷ୍ଠୀ-ଶିକ୍ଷାଦାନ
- B) ସହଯୋଗୀ ଶିକ୍ଷଣ
- C) ସମସ୍ୟା ସମାଧାନ
- D) ଆଲୋଚନା ପଦ୍ଧତି

49) Who coined the terms summative evaluation and formative evaluation?

- A) Michael Scriven
- B) Michael Arnold
- C) Ann Harold
- D) Michael Schwan

49) ସମାପ୍ତି ସୂଚକ ମୂଲ୍ୟାୟନ ଏବଂ ଗଠନମୂଳକ ମୂଲ୍ୟାୟନ ପଦଗୁଡ଼ିକୁ କିଏ ନିର୍ଦ୍ଧାରିତ କରିଛନ୍ତି?

- A) ମାଇକେଲ୍ ସ୍କ୍ରିଭେନ୍
- B) ମାଇକେଲ୍ ଆର୍ନୋଲ୍ଡ
- C) ଆନ୍ ହାରୋଲ୍ଡ
- D) ମାଇକେଲ୍ ସ୍ଚ୍ଵାନ୍

50) A teacher presents a problem and asks students to suggest ways to solve that. The teacher is acting as a

- A) facilitator
- B) dictator
- C) controller
- D) monitor

50) ଜଣେ ଶିକ୍ଷକ ଏକ ସମସ୍ୟା ଉପସ୍ଥାପନ କରନ୍ତି ଏବଂ ଏହାର ସମାଧାନ ପାଇଁ ଉପାୟ ପରାମର୍ଶ ଦେବାକୁ ଛାତ୍ରମାନଙ୍କୁ କୁହନ୍ତି। ଏଠାରେ ଶିକ୍ଷକ କିପରି ଭାବରେ କାର୍ଯ୍ୟ କରୁଛନ୍ତି?

- A) ସହାୟକ
- B) ଏକଚତୁର୍ବାଦୀ ଶାସକ
- C) ନିୟନ୍ତ୍ରକ
- D) ଶ୍ରେଣୀର ମୁଖ୍ୟ ଛାତ୍ର (ମନିଟର)

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Section 5 - Paper II Chemistry

No. of Questions: 30

51) How many atoms are there in 0.5 mole of copper?

- A) 3.011×10^{22} atoms
 - B) 6.022×10^{22} atoms
 - C) 3.011×10^{23} atoms
 - D) 6.022×10^{23} atoms
-

52) What is the equivalent mass of ammonium sulphate?

- A) 132
 - B) 66
 - C) 96
 - D) 48
-

53) Among the following, identify which compound's hybridisation is mentioned correctly?

- A) Hybridisation in Nitrate ion is sp^3 and shape of the molecule is tetragonal.
 - B) Hybridisation in carbonate ion is sp^2 and shape of the molecule is plane triangular.
 - C) Hybridisation in ClO_4^- ion is sp^2 and shape of the molecule is tetrahedral.
 - D) Hybridisation in PF_5 is sp^3d^2 and shape of the molecule is trigonal bipyramidal.
-

54) Which of the following has covalent bond?

- A) NaOH
 - B) CH_4
 - C) NaCl
 - D) KBr
-

55) Consider ice and water in a perfectly insulated thermos flask at $0^\circ C$ in an open atmosphere, there will be no change in the level of water and quantity of ice. This is an example of:

- A) Solid-Liquid equilibria
- B) Solid-Solution equilibria
- C) Liquid-Gas equilibria
- D) Gas-Solution equilibria

56) Which of the following is NOT an acid according to Bronsted-Lowry theory?

- A) Ammonium ion
- B) Hydrogen Chloride
- C) Hydronium ion
- D) Ammonia

57) Identify the statement which is not correct?

- A) Quick lime is used in the manufacturing of cement.
- B) $\text{Cu} + \text{ZnSO}_4 \longrightarrow \text{CuSO}_4 + \text{Zn}$. This is an example for displacement reaction.
- C) Oxidation state of Fe_3O_4 is +8/3.
- D) Photosynthesis is an endothermic process.

58) Identify the correct sequence of Ionisation energy in second period of periodic table?

- A) $\text{Li} < \text{B} < \text{Be} < \text{C} < \text{O} < \text{N} < \text{F} < \text{Ne}$
- B) $\text{Li} < \text{Be} < \text{B} < \text{C} < \text{N} < \text{O} < \text{F} < \text{Ne}$
- C) $\text{Li} < \text{Be} < \text{B} < \text{C} < \text{N} < \text{F} < \text{O} < \text{Ne}$
- D) $\text{Li} < \text{B} < \text{Be} < \text{C} < \text{N} < \text{F} < \text{O} < \text{Ne}$

59) Which process is used for the reduction of oxide ore of a metal in the molten state by carbon?

- A) Froth floatation
- B) Dressing of ore
- C) Smelting
- D) Calcination

60) The reagent that is used to detect unsaturation in ethylene is

- A) Hinsberg reagent
- B) Tollen's reagent
- C) Molisch's reagent
- D) Baeyer's reagent

61) Which of the following effect is observed in nitro benzene?

- A) Negative resonance effect
- B) Positive resonance effect
- C) Negative inductive effect
- D) Positive inductive effect

62) Which of the following statement is NOT correct?

- A) Lassaigne's test is used for detection of elements like nitrogen, sulphur, phosphorus and halogens in organic compounds.
- B) In Carius method, organic compound is heated with fuming nitric acid in the presence of AgNO_3 in Carius tube in a furnace.
- C) For quantitative estimation of sulphur, organic compound containing sulphur is heated with sodium peroxide or fuming HNO_3 .
- D) In Dumas' method when organic compound containing nitrogen is heated with concentrated sulphuric acid, ammonium sulphate is formed.

63) Identify the liquid which has high viscosity at 298K?

- A) Water
- B) Glycerol
- C) Benzene
- D) Chloroform

64) Which subshell is NOT present in an orbit whose principal quantum number value is 3?

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

65) 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 3?

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

66) How many moles of ethane occupy the volume of 5.6 Litres at Standard Temperature and Pressure?

- A) 0.25 moles
- B) 0.5 moles
- C) 0.75 moles
- D) 1.0 moles

67) Calculate the dipole moment of HCl if internuclear distance is 1.2 \AA ?

- A) 0.02D
 - B) 0.04D
 - C) 5.76D
 - D) 6.84D
-

68) The hydrogen ion concentration of a solution of Nitric acid is 0.02M. What is its pH?

- A) 1.609
 - B) 1.301
 - C) 2.34
 - D) 2.638
-

69) Among the following, identify the endothermic reaction?

- A) Burning of natural gas
 - B) Respiration
 - C) Decomposition of water
 - D) Decomposition of vegetable matter into compost
-

70) Which of the following is a disproportionation reaction?

- A) $2\text{KClO}_3 \rightarrow 2\text{KCl} + 3\text{O}_2$
 - B) $\text{N}_2 + \text{O}_2 \rightarrow 2\text{NO}$
 - C) $\text{Mg} + 2\text{H}_2\text{O} \rightarrow \text{Mg}(\text{OH})_2 + \text{H}_2$
 - D) $\text{CuSO}_4 + \text{Zn} \rightarrow \text{Cu} + \text{ZnSO}_4$
-

71) Which of the following are isoelectronic species?

- A) Mg and Al
 - B) Mg^{2+} and Ca^{2+}
 - C) Mg^{2+} and Al^{3+}
 - D) Mg and Ca
-

72) Which of the following represents the valence shell electronic configuration of $4s^2 4p^4$ in the modern periodic table?

- A) Group 15 and period 5
- B) Group 15 and period 4
- C) Group 16 and period 5
- D) Group 16 and period 4

73) In Froth floatation method, the principle that is used for dressing of ore is based on;

- A) Treating the ore with chemical reagent which dissolves the ore leaving behind insoluble impurities.
- B) Differences in wetting properties of the surface of the ore and gangue particles.
- C) Differences in specific gravity. The lighter particles are separated from heavier particles when washed with water.
- D) Boiling point differences.

74) Which of the following process represents the reaction, $2\text{Al}_2\text{O}_3 + 3\text{C} \rightarrow 4\text{Al} + 3\text{CO}_2$?

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

75) What electrophile is formed in the sulphonation of benzene?

- A) SO_3
- B) $(\text{SO}_3)^+$
- C) SO_2
- D) $(\text{SO}_3)^-$

76) n-hexane $\xrightarrow{\text{Cr}_2\text{O}_3 \text{ or } \text{V}_2\text{O}_5, 773\text{K } 10-20 \text{ atm}}$ A + CH_3Cl $\xrightarrow{\text{Anhydrous AlCl}_3}$ B. What are A and B products in the reaction?

- A) Benzene and Toluene
- B) Hexanal and Hexane
- C) Hexanol and Methylhexane
- D) Hexanol and Hexane

77) Calculate number of sigma bonds and pi bonds in $\text{CH}_3 - \text{CH} = \text{CH} - \text{C} \equiv \text{C} - \text{CH}_3$?

- A) 11 sigma bonds and 2 pi bonds
- B) 11 sigma bonds and 3 pi bonds
- C) 13 sigma bonds and 3 pi bonds
- D) 12 sigma bonds and 2 pi bonds

78) Among the following statements, which statement is NOT correct?

- A) Though ethanol and dimethyl ether are isomers, ethanol has high boiling point when compared to dimethyl ether.
 - B) Though 2-methyl propane and butane are isomers, 2-methylpropane has high boiling point when compared to butane.
 - C) The boiling point of noble increases down the group from Helium to Xenon.
 - D) Polar molecules have high boiling points when compared to non-polar molecules of similar molecular sizes.
-

79) Calculate the volume of 49 cm³ of gas at 21°C, would occupy at 27°C at constant pressure.

- A) 45 cm³
 - B) 42 cm³
 - C) 54 cm³
 - D) 50 cm³
-

80) Which of the following statement is correct?

- A) 4d_{xy} orbital has more number of nodes when compared to 4p_y orbital.
- B) 4p orbital has more energy when compared to 3d orbital.
- C) The maximum number of degenerate orbitals present in d-subshell is 7.
- D) Maximum number of electrons that a 4d subshell can accommodate is 10.

Section 6 - Paper II Botany

No. of Questions: 35

81) Which of the following plant hormone is highly effective fruit ripening?

- A) ethylene
- B) auxin
- C) cytokinin
- D) gibberellins

82) Auxanometer is used for the measurement of which parameter in plant?

- A) Rate of growth
- B) Rate of transpiration
- C) Rate of fertilization
- D) Rate of photosynthesis

83) Gregor Johann Mendel is considered as the father of

- A) evolution
- B) genetics
- C) taxonomy
- D) microbiology

84) How many pairs of contrasting characters are studied by Mendel in pea plant?

- A) Five
- B) Six
- C) Seven
- D) Eight

85) Hugo DeVries, Carl Correns and Erich von Tschermak independently rediscovered Mendel's work in

- A) 1600
- B) 1700
- C) 1800
- D) 1900

86) Who proposed C4 cycle for the CO₂ fixation in higher plants?

- A) Melvin Calvin
 - B) Robert Hill
 - C) M.D. Hatch and C. R. Slack
 - D) FF Blackman
-

87) Who proposed the " Law of Limiting Factor"?

- A) Robert Hooke
 - B) Robert Brown
 - C) F. F. Blackman
 - D) Gregor Mendel
-

88) The reaction centre for Pigment System I is

- A) P700
 - B) P680
 - C) P200
 - D) P300
-

89) Loose smut of wheat is caused by which plant pathogen?

- A) Ustilago tritici
 - B) Albugo candida
 - C) Puccinia graminis
 - D) Phytophthora infestans
-

90) The male sex organ in bryophytes is called

- A) gemmae
 - B) egg
 - C) archegonium
 - D) antheridium
-

91) Which plant group is known as "amphibians of the plant kingdom"?

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

92) Who proposed an elaborate five kingdom classification – Monera, Protista, Fungi, Plantae and Animalia?

- A) R.H. Whittaker
 - B) Carolus Linnaeus
 - C) Leeuwenhoek
 - D) Mendel
-

93) Regeneration or formation of new individual from any vegetative part of the body is known as

- A) Sexual reproduction
 - B) Vegetative reproduction
 - C) Secondary growth
 - D) Periderm
-

94) Tapetum is the innermost layer of the anther wall which is multinucleate and provide nutrition to the

- A) Developing megaspore
 - B) Developing root
 - C) Developing pollen grains
 - D) Developing fruit
-

95) Which part of Bryophyllum pinnatum, take part during Vegetative propagation?

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

96) Which theory was proposed by Karl Nageli (1878) for shoot apex?

- A) Histogen Theory
 - B) Telome theory
 - C) Apical cell theory
 - D) Evolution theory
-

97) Which complex tissues are known as vascular tissue?

- A) Xylem and phloem
- B) Parenchyma
- C) Collenchyma
- D) Sclerenchyma

98) In dicotyledonous root, the outermost layer is

- A) epidermis
 - B) pith
 - C) endodermis
 - D) pericycle
-

99) Which of the following is a simple gaseous plant growth regulators?

- A) Gibberellic acid
 - B) Zeatin
 - C) Kinetin
 - D) Ethylene
-

100) Indole-3-acetic acid is a plant hormone of the class

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

101) The phenotypic ratio in incomplete dominance is

- A) 1:2:1
 - B) 2:1
 - C) 3:1
 - D) 9:3:3:1
-

102) Law of Segregation also known by which law?

- A) Law of Dominance
 - B) Law of Independent assortment
 - C) Law of Heredity
 - D) Law of Purity of Gametes
-

103) Photosynthesis is an example of an

- A) Anabolic reaction
- B) Catabolic reaction
- C) Exothermic reaction
- D) Heat releasing reaction

104) Pigment System II (PS II) is located on the

- A) inner membrane of the mitochondria
- B) outer surface of the cristae
- C) outer surface of the thylakoid
- D) inner surface of the thylakoid

105) The number of which molecule released per light quanta absorbed is called quantum yield of photosynthesis?

- A) Oxygen
- B) Carbon dioxide
- C) Nitrogen
- D) Hydrogen

106) Powdery mildew is a

- A) viral disease
- B) bacterial disease
- C) fungal disease
- D) algal disease

107) Which of the following is an appropriate example for Ex-situ Conservation?

- A) National Park
- B) Seed Banks
- C) Sacred Grooves
- D) Natural Reserves

108) According to the National Forest Policy of India 1988, how much forest cover should be maintained?

- A) Plains (11%) and Hills (37%)
- B) Plains (33%) and Hills (67%)
- C) Plains (23%) and Hills (17%)
- D) Plains (25%) and Hills (75%)

109) What is the special feature of a Thallophytes?

- A) Plant body is not differentiated into root, stem and leaves
- B) Plant body is differentiated into root, stem and leaves
- C) Having vascular tissue
- D) Embryo formation after fertilization

110) The process of formation of seeds without fertilization in flowering plants is referred as

- A) Apomixis
- B) Sporulation
- C) Guttation
- D) Xenogamy

111) The potato tuber is a modification of which part of the plant?

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

112) The male reproductive parts of a flower called as stamens are collectively referred to as

- A) Androecium
- B) Gynoecium
- C) Style
- D) Stigma

113) Who recognised three basic tissue systems found in the primary structure of plants that is Epidermal, Ground or fundamental and Vascular tissue system?

- A) Schleiden (1839)
- B) Sachs (1875)
- C) Went (1926)
- D) Golgi (1898)

114) Certain member of family Cruciferae contain a special sac-like cells scattered in which region known as myrosin cell?

- A) Hypodermis
- B) Cortex
- C) Pith
- D) Epidermis

115) When cambium is absent in between xylem and phloem, that type of vascular bundle is known as

- A) trichomes
- B) mesophyll
- C) open vascular bundle
- D) closed vascular bundle



Section 7 - Paper II Zoology

No. of Questions: 35

116) Which of the following term is used for formation of blood corpuscles?

- A) Haemolytic
- B) Haemozoin
- C) Haemolysis
- D) Hematopoiesis

117) Which of the following blood cell is also known as leukocytes?

- A) Platelets
- B) Plasma
- C) White blood cells
- D) Red blood cells

118) Which of the following is a inhibitory neurotransmitter?

- A) Histamine
- B) Gamma-aminobutyric acid
- C) Adrenaline
- D) Vasopressin

119) Which of the following is a excitatory neurotransmitter?

- A) Acetyl CoA
- B) Antidiuretic hormone
- C) Inositol
- D) Acetylcholine

120) What is the name of membrane around the vacuole?

- A) Cytoplast
- B) Amyloplast
- C) Tonoplast
- D) Leucoplast

121) The term 'cell' was coined by

- A) Charles Darwin
 - B) Theodor Schwann
 - C) Camillo Golgi
 - D) Robert Hooke
-

122) Which of the following has been classified as a aquatic biomes?

- A) Desert
 - B) Freshwater
 - C) Grasslands
 - D) Tundra
-

123) Which of the following is a renewable energy resource?

- A) Coal
 - B) Natural gas
 - C) Fossil fuel
 - D) Wind
-

124) Who independently evolved theory of natural selection?

- A) Charles Darwin and Alfred Wallace
 - B) Gregor Mendel and Charles Darwin
 - C) Charles Lyell and James Hutton
 - D) Erasmus Darwin and Robert Hooke
-

125) Which organ of human body is involved in blood purification?

- A) Stomach
 - B) Heart
 - C) Kidney
 - D) Brain
-

126) The term for alternative forms of a gene is known as

- A) Allele
- B) Offspring
- C) Dominant character
- D) Recessive character

127) Which of the following is an example of micronutrient?

- A) Fats
 - B) Proteins
 - C) Minerals
 - D) Carbohydrates
-

128) The enzyme present in human sperm acrosome which helps in sperm penetration during fertilization is

- A) Amylase
 - B) Phosphatase
 - C) Hyaluronidase
 - D) Catalase
-

129) Carbonic anhydrase plays an important role in carbon dioxide transport in the blood during respiration. Where do you find this enzyme?

- A) Lungs
 - B) Red blood cells
 - C) Sperm cell
 - D) Thrombocytes
-

130) How many ATP molecules formed during anaerobic respiration leading to lactic acid formation during heavy muscular exercise?

- A) 2
 - B) 8
 - C) 32
 - D) 38
-

131) Who among the following is known as Father of Taxonomy?

- A) Ernst Haeckel
- B) Louis Pasteur
- C) R.H. Whittaker
- D) Carl Linnaeus

132) What is the basic unit of classification?

- A) Class
 - B) Species
 - C) Phylum
 - D) Kingdom
-

133) Where is tricuspid valve present in human heart?

- A) Between left auricle and left ventricle
 - B) Between ventricle and aorta
 - C) Between ventricle and pulmonary artery
 - D) Between right auricle and right ventricle
-

134) The forebrain consists of

- A) hypothalamus
 - B) pons
 - C) cerebellum
 - D) medulla oblongata
-

135) Among the following, which purine base is found in RNA?

- A) Guanine
 - B) Uracil
 - C) Thymine
 - D) Cytosine
-

136) Semiautonomous organelle within the cell is

- A) Golgi complex
 - B) Peroxisomes
 - C) Chloroplast
 - D) Lysosome
-

137) The green plant in the ecosystem are called

- A) decomposers
- B) producers
- C) consumers
- D) carnivores

138) Read the following statements and choose the CORRECT option:

- (i) Habitats provide everything that an individual plant or animal needs to survive that is food, water and shelter
- (ii) Each ecosystem provides different habitats that can be essential for a species life cycle

- A) (i) is TRUE and (ii) is FALSE
 - B) (i) and (ii) is FALSE
 - C) (i) and (ii) is TRUE
 - D) (i) is FALSE and (ii) is TRUE
-

139) The modern synthetic theory of evolution was put forth by numbers of scientists which includes all of the following EXCEPT:

- A) J.B.S. Haldane
 - B) Ernst Mayr
 - C) Louis Pasteur
 - D) R.A. Fisher
-

140) Read the following statements regarding darwinism and choose the CORRECT option:

- (i) The term "Darwinism" refers to the theory of evolution that originated with the work of Englishman Charles Robert Darwin, especially as expressed in his book "On the Origin of Species", published in 1859.
- (ii) Darwinism is a broad term that refers to all biological hypotheses that explain how organisms evolve by mutation and selection.

- A) (i) is FALSE and (ii) is TRUE
 - B) (i) is TRUE and (ii) is FALSE
 - C) (i) and (ii) are FALSE
 - D) (i) and (ii) are TRUE
-

141) A process in which metabolic waste is eliminated from an organism is

- A) Ingestion
 - B) Excretion
 - C) Propulsion
 - D) Absorption
-

142) The renal tubule begins with a double walled cup-like structure called

- A) Bowman's capsule
- B) Columns of Bertini
- C) Proximal convoluted tubule
- D) Henle's loop

143) A change in a DNA sequence is

- A) phenotype
- B) genotype
- C) mutation
- D) synapsis

144) The method of mating a hybrid with one of its parents or a genetically identical individual in an attempt to develop infants with a genetic identity identical to that of the parent is

- A) Back cross
- B) Incomplete dominance
- C) Co-dominance
- D) Hetero fertilization

145) Which of the following is a fat soluble vitamin?

- A) Vitamin B12
- B) Vitamin C
- C) Vitamin A
- D) Vitamin B3

146) Citrus fruits are a particularly good source of

- A) Vitamin D
- B) Vitamin C
- C) Vitamin A
- D) Vitamin E

147) What is the name of process of gamete formation?

- A) Spermatogenesis
- B) Insemination
- C) Gametogenesis
- D) Fertilization

148) Krebs cycle takes place in the

- A) lysosome
 - B) cytoplasm
 - C) mitochondrial matrix
 - D) outer membrane of chloroplast
-

149) Which of the following is a input of oxidative phosphorylation?

- A) NADH and FADH₂
 - B) H₂O and Carbon dioxide
 - C) Acetyl CoA and water
 - D) CO₂ and oxaloacetate
-

150) Choose the CORRECT sequence of taxonomic categories:

- A) Class - Phylum - Order - Family - Genus - Species
- B) Division - Class - Order - Family - Genus - Species
- C) Class - Order - Family - Division - Genus - Species
- D) Phylum - Order - Class - Family - Genus - Species

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Answer Key

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