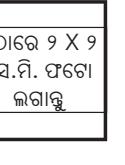


ଜନ୍ମଦିନର ଶୁଭେତ୍ତୋ



ନାମ:

ବୟସ:

ଜନ୍ମ ତାରିଖ:

ସର୍ବାବତା: ଏହି କୁଣ୍ଡଳ ବ୍ୟବରାତ କରି ସ୍ଵର୍ଗ ମାଗାରେ ଜନ୍ମଦିନର ଶୁଭେତ୍ତୋ ଜଣାଇବା ପରେ ପରିମାତ୍ରା ସହି କୁଣ୍ଡଳର ଶୁଭେତ୍ତୋ, ଧରିତ୍ରୀ, ବି-୨୭, ରମ୍ବଲପଥ ଶିଳ୍ପାଳ୍ଲୋ, ଭୁବନେଶ୍ୱର-୧୦ ଠିକଣାରେ ପରିଷ୍କାର ଆବଶ୍ୟକ।

classified



real estate

SALE

Penguin homes Pvt. Ltd. land required for housing project in Bhubaneswar/ Cuttack. Contact: 9937254467, 7008107711. D-65235

Litigation free plots near Xavier University/ Birla School BDA Zone, Bhubaneswar. Sqft.- 250/-, 160/-, 9937746907, 9337259012. D-64382

ଭୁବନେଶ୍ୱର ଉଭରା/ Krupajal ପାଖରେ ଘରବାଟି ପାରେ ଦୂର ପଚାର ବିକ୍ରିହେବ। 9178660666. D-65228

ଭୁବନେଶ୍ୱର ସୁନ୍ଦରପଦା Xavier University backsideରେ ନିଯନ୍ତ୍ରଣ ପୂର୍ଣ୍ଣ ମିଳୁଆଛି। 9338932027. D-64386

Immediate sale 1815 sqft 30' road gharabari boundary residential plot at mouza baula near dhauli temple contact: 9861995518. D-63210

ସୁନ୍ଦରପଦା Hitech ପାଖରେ 100' and 50' Revenue Road ଥାଇ 2ଟି ଘରବାଟି ବାରାନ୍ତି ପୂର୍ଣ୍ଣ ବିକ୍ରିହେବ। (sqft. 600/-) 9777236619. D-64400

1575 single corner plot with boundary wall at Hitech Square, Rasulgarh- 22,05,000/- (Owner). 9938771877. D-64397

ଭୁବନେଶ୍ୱର GITA College ନିକଟରେ 1200 sqft. 3,99,000/-ରେ ପାଇଁ ମିଳୁଛି। 8280224744. D-64398

ଭୁବନେଶ୍ୱର ହଙ୍ଗମାଳା ପାଖରେ ଏବଂ Puri by-pass sideରେ ମୁଣ୍ଡ ମିଳୁଛି। 9437003399, 9668194157. D-65401

Residential gharabari boundary plot sale at Nakhara Trinath Bazar with registration/ possession (Bank finance available). 9090419636. D-65302

Infocity-2 and NH-5 ପାଖରେ 10,00,000/-ରେ ପୂର୍ଣ୍ଣ ବିକ୍ରିହେବ। 9938770157, 7008818182. D-64399

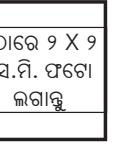
Road demarcation complete at BDA town planning scheme, plots are available for sale. 9437536638. D-65244

GENERAL

SALE

Agarbati Machine ଏବଂ Paperplate Machine ପାଇଁ ଯୋଗାଯୋଗ କରିବାକୁ। 9853089865. D-65301

ପାଇଁ କରିବାକୁ: କୁଣ୍ଡଳରେ ପ୍ରକାଶିତ କେବଳ ଏକାକି ଅନ୍ତର୍ଭାବରେ କରିବାକୁ। ବିଭାଗ କେବଳ ଏକାକି ଅନ୍ତର୍ଭାବରେ କରିବାକୁ। ବିଭାଗ କେବଳ ଏକାକି ଅନ୍ତର୍ଭାବରେ କରିବାକୁ।



ନାମ:

ବୟସ:

ଜନ୍ମ ତାରିଖ:

ସର୍ବାବତା: ଏହି କୁଣ୍ଡଳ ବ୍ୟବରାତ କରି ସ୍ଵର୍ଗ ମାଗାରେ ଜନ୍ମଦିନର ଶୁଭେତ୍ତୋ ଜଣାଇବା ପରେ ପରିମାତ୍ରା କୁଣ୍ଡଳର ଶୁଭେତ୍ତୋ, ଧରିତ୍ରୀ, ବି-୨୭, ରମ୍ବଲପଥ ଶିଳ୍ପାଳ୍ଲୋ, ଭୁବନେଶ୍ୱର-୧୦ ଠିକଣାରେ ପରିଷ୍କାର ଆବଶ୍ୟକ।

ସାମାଜିକ ପାଇଁ ଏବଂ ବ୍ୟବରାତ କରିବାକୁ।

ସାମାଜିକ ପା



କେଳାନାଳ, ରୁଦ୍ରବାର, ୧୩ ଡିସେମ୍ବର, ୨୦୧୮



74.25 m³
 $\sqrt{r^2 + h^2} = \sqrt{\frac{81}{4}}$
 $9 = \sqrt{130}$

Exam Mate



FOR ANSWERS VISIT : www.dharitri.com

MOCK TEST PAPER # 1

CLASS-XII (CHEMISTRY)

Time Allowed : 3 hours

Maximum Marks: 70

GENERAL INSTRUCTIONS

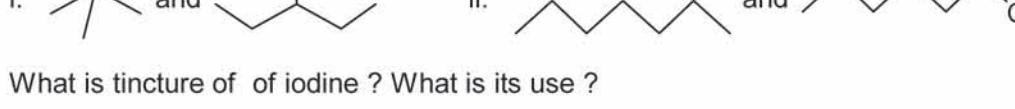
- i. All questions are compulsory
- ii. Q. No. 1 to 5 are very short answer questions and carry 1 mark each.
- iii. Q. No. 6 to 12 are short answer questions and carry 2 marks each.
- iv. Q. No. 13 to 24 are also short answer questions and carry 3 marks each.
- v. Q. No. 25 to 27 are long answer questions and carry 5 marks each.
- vii. Use log tables if necessary, use of calculators is not allowed.

1. What is activation energy ?
2. Write the name of enzyme, which converts starch into maltose.
3. Give an example of compounds in which nitrogen exhibits oxidation states of -3 and +3
4. Name the reagents used in the following reactions:
 - i. Oxidation of primary alcohol to carboxylic acid.
 - ii. Benzyl alcohol to benzoic acid.
5. Name one disease caused by the deficiency of
 - i. Vitamin E
 - ii. Vitamin D
6. Which of the following compounds has a lone pair of electrons at the central atom ?
 $H_2S_2O_3, H_2S_2O_7, H_2SO_3, H_2SO_4$
7. Give an example of Hell-Volhard-Zelinsky reaction.
8. Draw the structure of optical isomers of $[Cr(C_2O_4)_3]^{3-}$.
9. Define the following terms with suitable examples.
 - i. Primitive unit cell
 - ii. Ferromagnetism.

OR

Write any two differences between n-type and p-type semiconductors.

10. In the following pairs of halogen compounds, which compound undergoes faster S_N1 reaction ?



11. What is tincture of iodine ? What is its use ?
12. What are artificial sweetening agents ? Give two example.
13. For the complex $[Fe(en)_2Cl_2]Cl$, identify the following
 - i. Type of hybridization and geometry.
 - ii. IUPAC name of the complex.
14. An element with molar mass 2.7×10^{-2} kg mol⁻¹ forms a cubic unit cell edge length 405 pm. If its density is 2.7×10^3 kg m⁻³ then what is the nature of the cubic unit cell ?
15. Write the structure and IUPAC name of DDT.
16. The following initial rate data were obtained at 300 K for the reaction $2P + Q \rightarrow R + S$.

	[P] mol L ⁻¹	[Q] mol L ⁻¹	Rate/mol L ⁻¹ s ⁻¹
I.	0.2	0.1	6.0×10^{-2}
II.	0.4	0.1	2.4×10^{-1}
III.	0.2	0.2	1.2×10^{-1}

- a. Deduce the rate law.
- b. If the half-life of a reaction is inversely proportional to initial concentration of the reactant then what is the order of reaction ?
17. Write the chemical reactions of the following:
 - i. Coupling reaction.
 - ii. Hoffmann bromamide reaction.
18. Explain the following terms:
 - i. Micelles
 - ii. Dialysis
 - iii. Hardy-Schulze rule.

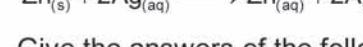
OR

Explain the following observations:

- i. A beam of light passing through a colloidal solution is visible.
- ii. Passing an electric current through a colloidal solution removes colloidal particles from it.
- iii. Ferric hydroxide solution coagulates on addition of a solution of potassium sulphate.
19. Complete the following chemical reactions:
 - i. $F_2 + H_2O \rightarrow$
 - ii. $Ca_3P_2 + H_2O \rightarrow$
 - iii. $XeF_4 + H_2O \rightarrow$

20. a. What is the role of depressant in the froth floatation process ?
- b. Out of C and CO which is a better reducing agent for FeO ?
- i. In the lower part of blast furnace (higher temperature)
- ii. In the upper part of blast furnace (lower temperature).

21. The reaction occurs in galvanic cells is:



Give the answers of the following:

- i. Which of the electrode is negatively charged ?
- ii. The carriers of the current in the cell.
- iii. Individual reaction at each electrode.

22. How are the following conversions carried out ?

- i. Propene \rightarrow Propan-2-ol.
- ii. Benzyl chloride \rightarrow benzyl alcohol
- iii. Ethyl magnesium chloride \rightarrow propan-1-ol.

23. Draw the structure of the following species:



24. Answer the following questions.

- i. What are biodegradable polymer ?
- ii. Identify the aliphatic biodegradable polyester which is used in packaging and orthopaedic devices. Write its full form.
- iii. Write the name and structure of the monomer of nylon 6.

25. a. Define (i) Mole fraction (ii) Molality

How are these two related ?

- b. What is the value of van't Hoff factor for a solute which undergo dimerisation upto 40%?

OR

- a. State the following

- i. Henry's law about partial pressure of a gas in a mixture.
- ii. Raoult's law in its general form in reference to solutions.
- b. A solution prepared by dissolving 8.95 mg of a gene fragment in 35.0 mL of water has an osmotic pressure of 0.335 torr at 25°C. Assuming the gene fragment is a non-electrolyte, determine its molar mass.

26. a. Write chemical equations for the following reactions:

- i. Oxidation of nitrite ion by MnO_4^- in acidic medium.
- ii. Acidification of potassium chromate solution.
- iii. Disproportionation of manganese (VI) in acidic solution.

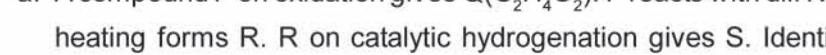
- b. Explain the following observations.

- i. Transition elements generally form coloured compounds.
- ii. Zinc is not regarded as a transition element.

OR

- a. Account for the following

- i. Europium (II) is more stable than cerium (II)
- ii. Transition metals have high enthalpies of atomization.
- b. Write the steps involved in the preparation of



27. a. A compound P on oxidation gives $Q(C_2H_4O_2)$. P reacts with dil. NaOH and on subsequent heating forms R. R on catalytic hydrogenation gives S. Identify P, Q, R, S and write down the reaction involved.

- b. Write chemical equations to carry out the following conversions.

- i. Benzene to benzyl alcohol.

- ii. Propane nitrile to 1-phenyl propanone.

OR

- a. Two moles of organic compound 'W' on treatment with a strong base give two compounds 'X' and 'Y'. Compound 'X' on dehydrogenation of 'Y' yields carboxylic acid 'Z' having molecular formula of CH_2O_2 .

- b. Explain why:

- i. The aldol and ketol readily lose water molecules to give, α, β -unsaturated carbonyl compounds?
- ii. Benzaldehyde is less reactive than acetaldehyde towards nucleophilic substitution reaction ?

For Answers visit: www.dharitri.com

