

This Question Paper contains 16 printed pages.

(Part - A & Part - B)

Sl.No. 401388

11 (E)

(MARCH, 2015)

પ્રશ્ન પેપરનો સેટ નંબર જેની
સામેનું વર્તુળ OMR શીટમાં
ઘટ્ટ કરવાનું રહે છે.

Set No. of Question Paper,
circle against which is to be
darken in OMR sheet.

4

Part - A : Time : 1 Hour / Marks : 50

Part - B : Time : 2 Hours / Marks : 50

(Part - A)

Time : 1 Hour]

[Maximum Marks : 50

Instructions :

- 1) There are 50 objective type (M.C.Q) questions in Part - A and all questions are compulsory.
- 2) The questions are serially numbered from 1 to 50 and each carries 1 mark.
- 3) Read each question carefully, select proper alternative and answer in the O.M.R. sheet.
- 4) The OMR sheet is given for answering the questions. The answer of each question is represented by (A) O, (B) O, (C) O, (D) O. Darken the circle ● of the correct answer with ball-pen.
- 5) Set No. of Question Paper printed on the upper-most right side of the Question Paper is to be written in the column provided in the OMR sheet.

- 1) The students of a class discuss about acid base rule as follows.

Student - 1 : A substance which donates proton to other substance is an acid.

Student - 2: A substance which accepts proton from other substance is base.

Student - 3: OH^- ion is not formed in NH_3 , therefore it may not be a base. ✓

Student - 4: OH^- ion is not formed in NH_3 , then also it is a base. ✓

Who is wrong in this group discussion?

(A) Student - 3 and Student - 4

☒ (B) Student - 1 and Student - 2

~~(C)~~ Only Student - 3

(D) Only Student - 4

- 2) An ant has bitten Khushi while she was playing. She is feeling burning sensation. Which acid may have entered her body.

(A) Melitin ☒ (B) Formic acid
(C) Benzene (D) Tenin

- 3) By which reaction metal can be obtained from metal oxide?

☒ (A) Reduction (B) Liquefaction
(C) Calcination (D) Roasting

- 4) Which of the following substances is hygroscopic?

☒ (A) Anhydrous calcium chloride (B) Cryolite
(C) Feldspar (D) Slag

- 5) What is the molecular formula of Calcium hydride?

(A) CaH ☒ (B) CaH₂
(C) Ca₂H (D) Ca₂H₂

- 6) With which of the following, carbon does not react?

(A) Di Chlorine gas ☒ (B) Dilute Hydrochloric acid
(C) Di Oxygen gas ☒ (D) Di Hydrogen gas

- 7)
$$\text{N}_2(\text{g}) + 3\text{H}_2(\text{g}) \xrightleftharpoons[200-300\text{BAR}]{773\text{K}} 2\text{NH}_3(\text{g}) + \text{heat}$$

Which of the following works as catalyst?

(A) K₂O (B) Al₂O₃
☒ (C) Fe (D) V₂O₅

8) Which of the following is a weak bleaching agent?

(A) Dihydrogen gas

(B) Concentrated sulphuric acid

(C) Sulphur

☒ (D) Sulphur dioxide

9) What is the general formula of alkyne series?

☒ (A) C_nH_{2n-2}

(B) C_nH_{2n}

(C) C_nH_{2n+2}

(D) C_nH_n

C_2H_2
C

10) Which of the primary state in transformation of coal?

(A) Lignite

☒ (B) Peat

(C) Bitumen

(D) Anthracite

11) From where mineral coal is obtained in Gujarat?

(A) Khambhat

(B) Ankleshwar

☒ (C) Thangadh

(D) Kalol

12) What is the angle between any two bonds in methane molecule?

☒ (A) $109^\circ 28'$

(B) $105^\circ 54'$

(C) $119^\circ 28'$

(D) $190^\circ 28'$

13) What is prepared by Fisher-Tropsch method?

(A) Acetic acid

☒ (B) Acetone

(C) Acetaldehyde

(D) Ethanol

14) Which of the following monomers is in polythene?

(A) $\text{CH}_2 + \text{CH} = \text{CH} - \text{CH}_3$

(B) $\text{CH}_3 - \text{CH}_3$

(C) $\text{CH} = \text{CH}$

☒ (D) $\text{CH}_2 = \text{CH}_2$

15) Why does one who drinks alcohol get tempted to drink more alcohol?

(A) because Formaldehyde increases in liver

(B) because CO_2 increases in liver

☒ (C) because amount of enzyme P-450 increases in liver

(D) because amount of disulphiram increases in liver.

16) What is the length of small intestine in an adult human being?

☒ (A) 6.5 m

(B) 3.5 m

(C) 4.5 m

(D) 2.5 m

17) How many uriniferous tubules are there in each kidney?

(A) 20 Lakhs

☒ (B) 10 Lakhs

(C) 30 Lakhs

(D) 1 Lakh

- 18) Which of the following structure is responsible for transportation of water in higher plants?
- (A) Sieve cell (B) Sieve tube
- ☒ (C) Vessel (D) Companion cell
- 19) By what name is the liquid medium of blood known as?
- (A) Blood particles ☒ (B) Plasma
- (C) Waste (excretory) substances (D) Waste material
- 20) Where are the waste products stored in plants?
- (A) In Cytoplasm (B) In Plant cells
- (C) In Phloem cell ☒ (D) In Cellular Vacuoles
- 21) Which of the following pairs is not true?
- ☒ (A) Adrenaline-Pituitary gland
- (B) Testosterone-Testes
- (C) Pancreas-Insulin
- (D) Progesterone-Ovary
- 22) Cerebellum, medulla oblongata and pons are the part of ____.
- ☒ (A) hind-brain (B) mid-brain
- (C) fore-brain (D) spinal cord

23) Which of the following are the true methods of artificial propagation?

- (A) Layering, Cutting, Budding
- (B) Fission and Budding
- ☒ (C) Cutting, Layering, Grafting
- (D) Cutting, Grafting, Budding

24) How many Chromosomes are there in human ovum?

- (A) 64
- ☒ (B) 46
- (C) 23
- (D) 32

25) Which of the following organs are not the homologous organs?

- (A) Forelimb in lizard and frog
- (B) Forelimb in human and lizard
- ☒ (C) Wings of bat and birds
- ☒ (D) Wings of butterfly and bat

26) The human species have genetic roots in _____.

- (A) America
- (B) India
- ☒ (C) Africa
- (D) Australia

27) What is famous for the constructive and functional unit?

- (A) Food chain ☒ (B) Ecosystem
(C) Food web (D) None of these

28) Chlorine is the main factor to damage Ozone layer. CFC is considered responsible for 80% of total decrease in Ozone layer.

If the pollution in the atmosphere increases, which of the following is possible in future?

- P. The ice at poles will melt and all the organisms will die living at the island

- Q. Many organisms living at island may migrate.

- R. The existance of forests on the earth will be no more.

- (A) Only P and Q

- (B) Only Q

- All P, Q and R

- (D) Only Q and R

29) Names of endangered plant species are published in

- (A) Green data book

- (B) Endangered species book

- 
- Red data book

- (D) Yellow data book


30) One day the contractor's workers appeared in the forest to cut the trees but the men folk were absent. However, the women from the village reached the forest quickly and clasped the tree trunks preventing the workers from felling the trees. Thus the forest trees were saved.

This incident was originated in a remote village called “Reni” in Garhwal in the early 1970s. By which name is this andolan known as?

- (A) Vankatai Andolan

- (B) Amritadevi Andolan

- (C) Prkruti Samrakshan Andolan

- 
- ## Chipko Andolan