



केवल मूल्यांकनकर्ता के उपयोग हेतु!

माध्यमिक शिक्षा मण्डल, मध्यप्रदेश, भोपाल

32 पृष्ठीय

केवल परीक्षक द्वारा भरा जावे। प्रश्न क्रमांक के सम्मुख प्राप्तांकों की प्रविष्टि करें।

प्रश्न क्रमांक	पृष्ठ क्रमांक	प्राप्तांक (अंकों में)	प्रश्न क्रमांक	पृष्ठ क्रमांक	प्राप्तांक (अंकों में)
1			17		
2			18		
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परीक्षक एवं उपमुख्य परीक्षक द्वारा भरा जावे ↓

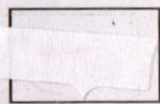
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परीक्षक एवं उपमुख्य परीक्षक द्वारा भरा जावे

प्रमाणित किया जाता है कि अन्दर के पृष्ठों के अनुरूप मुख्य पृष्ठ पर अंकों की प्रविष्टि एवं अंकों का योग सही है।
निर्धारित मुद्रा: नाम, पदनाम मोबाईल नम्बर, परीक्षक क्रमांक एवं पदांकित संस्था के नाम की मुद्रा लगाएं।

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योग पूर्व पृष्ठ

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पृष्ठ 3 के अंक

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कुल अंक



प्रश्न क्र.

Q.1 - Answer

i) Ans: Humidity

ii) Ans: Glucose - (a type of sugar)

B iii) S Ans: $\sin 60^\circ = \frac{\sqrt{3}}{2}$

Ans: The convex lens is thick in middle and thin at edges.

Ans: 360° - (central angle)



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Q.2 - Answer

- i) Termite - Arthropoda ✓
- ii) Cockroach - Periplaneta americana ✓
- iii) $\tan 45^\circ$ - one (1) ✓
- iv) Mean term - Sum of all terms divided by number of terms.
- v) Pie diagram - Pie chart

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Q.3 - Answer

Ans Soft iron (d) ✓

i) Cu (b) ✓

ii) 0.0 Calorie (c) ✓

iii) C and H (d) ✓

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iv)

Soapless soap (Detergent) (d)

Ans:

lipid (b)

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EQ.4 - Answer

Ans:

Mycobacterium tuberculosis

ii)

Aptho virus

Ans:

Mendel

iv)

Ans:

 $\frac{0}{\pi}$

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iv
Ans:-

$$c = \sqrt{\frac{\epsilon \pi^2}{n} - \left(\frac{\epsilon \pi}{n}\right)^2}$$

v
Ans:-

Ascorbic acid ✓

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Ans:-

True False ✓

ii
Ans:-

True ✓

iii

Ans:-

False ✓

iv

Ans:-

True ✓

Q.5 - Answer

$$\frac{a}{b}$$

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3 + 6 = 30



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(10) Answer - 8.0

✓

Ans: True ✓

Ans: False ✓

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Q.6 - Answer (OR) - 2.0

The two properties of light are:-

1) Light travel in a straight path.

The ray of light bends when it travel from one medium to another. Hence it also show refraction.

Q.7 - Answer (OR)

The two Diamagnetic Substance are -

Sodium - (Na)

Silver - (Ag)

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Q.8 - Answer (OR)

IUPAC - International union of pure and applied chemistry.

The general formula of alkane - C_nH_{2n+2}

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EQ.9 - Answer

The two uses of urea are:-

- 1) It is used as fertilizer to increase soil fertility.
- 2) It is used in making explosive.

Q.10 - Answer

Oil

Fat

1) oils are liquid at normal temperature $20^\circ C$.

Fats are solid at normal temperature $20^\circ C$.

2) They are insoluble in water.

They are soluble in water.

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Q.11 - Answer (or)

→ The formula for calculating area of rectangle = $\text{length} \times \text{breadth}$
= $(l \times b)$

The area of circle = πr^2

Q.12 - Answer

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Primary data

→ Primary data is collected by the investigator himself.

Secondary data are collected by some other person.

These are more faithful and reliable, they don't require modification.

These are less faithful and reliable, ~~also~~ require modification.



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Q.13- Answer

The physical properties of ethylene gas are -

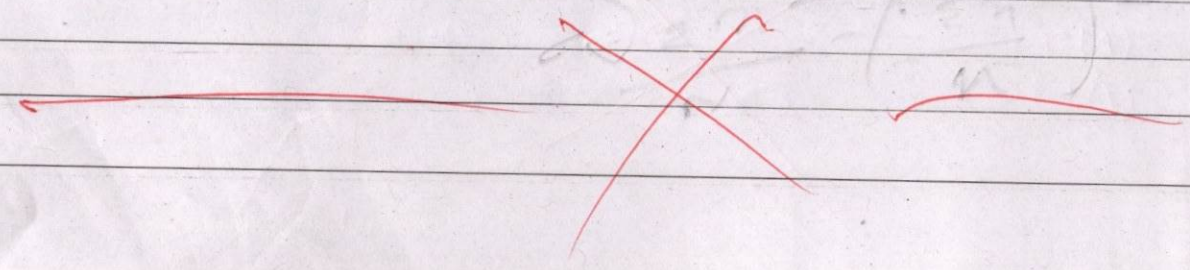
- i) It is a ~~colourless~~ gas.
- ii) It is a ~~tasteless~~ gas. tasteless gas.
- iii) It smell like Garlic.

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Q.14- Answer

The three main functions of protein in body are:-

- i) It is very helpful in growth of tissue in our body.
- ii) It helps to repair damaged cells in body.
- iii) It is used in the formation of muscles, & bones.





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Q.15 - Answer

The three Cause of Success of Mendel.

- i) He selected garden pea plant for his experiment.
- ii) which can be easily grown and it is self pollinated
- iii) with 7 contrasting characters.

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- iv) Mendel studied only one character at one time.
- v) Mendel kept good statistical record of his experiment.

Q.16 - Answer (OR)

The three plants of malvaceae family & their botanical

Name -

- i) Cotton - *Gossypium species*
- ii) okra (ladyfinger) - *Hibiscus esculentus*
- iii) Hibiscus (china rose) - *Hibiscus Rosa sinensis*



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The economical importance of malvaceae family plants -

i) cotton is the member of malvaceae family it is good source of fibre. Fabrics are made from it.

ii) okra or lady finger is used as vegetable and fulfill food aspects.

iii) Hibiscus flower is used to make colours and also as ornamental flower for decoration.

Q.17 - Answer (OR)

Ans:- The two factors affecting the resistance of a conductor are -

- (a) The temperature of the conductor
- (b) The length and area of the conductor.



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Ans

The Coulomb's inverse Square law :- This law states that the electrical force of attraction between two points is directly proportional to the scalar multiplication of their the magnitude of charges and inversely proportional to the square distance between them.

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If - ' Q_1, Q_2 ' are two charges and ' r ' is distance between them so the force ' F ' will be

Thus - $F \propto Q_1 Q_2$ (i)

$F \propto \frac{1}{r^2}$ (ii)

from (i) + (ii) = $F \propto \frac{Q_1 Q_2}{r^2}$

$$\Rightarrow F = \frac{1}{4\pi\epsilon_0} \left(\frac{Q_1 Q_2}{r^2} \right)$$



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Q.18 - Answer

The names of four meteorological apparatus & their use -

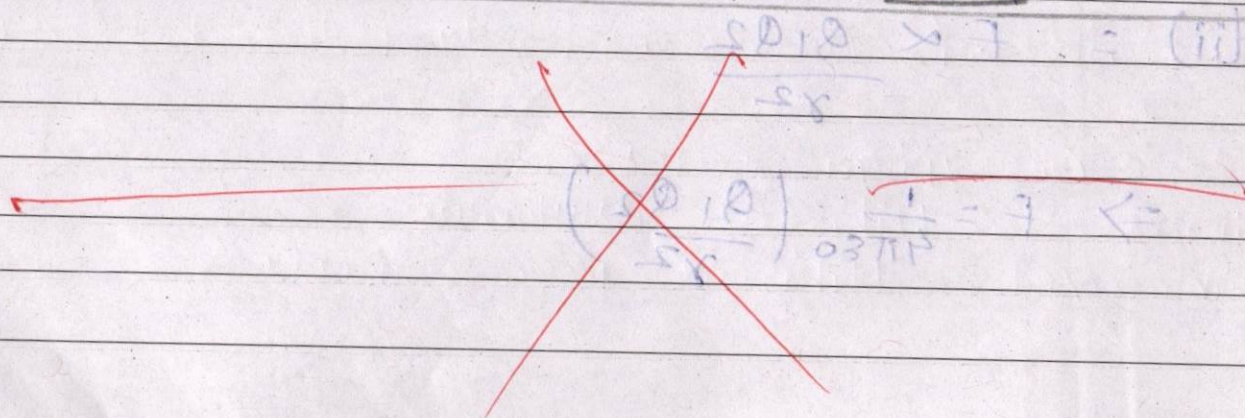
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i) Rain gauge - This instrument is used to measure the amount of rainfall.

B ii) Hygrometer - This meteorological instrument used to determine the humidity of atmosphere.

E iii) Barometer - It is useful in knowing the pressure of air.

iv) Wind vane - Wind vane is used to determine the direction of wind.



Q.19 - AnswerAerobic respiration

i) Aerobic respiration is the type of respiration occur in the presence of O_2 (oxygen).

B.S. ii) It is ~~not~~ found in both mitochondria & cytoplasm.

... this respiration total 38 ATP are produced.

It is found in higher organism like - mammals.

Anaerobic respiration

Anaerobic respiration is the type of respiration occur in the absence of O_2 (oxygen).

It is only found in cytoplasm only.

In this respiration total 2 ATP are produced.

It is found in lower organism like - Bacteria & yeast.

~~Q.15 -~~Q.20 - Answer

Arithmetic mean - It is the quotient obtained by the sum of all observations divided by number of observation



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The two merits of mean are -

- 1) Its calculation is easy and simple.
- 2) It is suitable for algebraic values.



~~Handwritten text and calculations, including a large red X, are present in this section.~~