

ST. MARY'S ACADEMY

CLASS 9

CLASS 9

Pak. Studies

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CLASS 9

Name: _____ Section: _____

Subject: Pak. Studies

Assessment # 1

Marks: 15

Fill the blanks:

(/ 15)

1. The establishment of Pakistan is an event of _____ century.
2. Fraternity means _____.
3. The foundation of the ideology of Pakistan is _____.
4. The Congress Ministries were formed in _____.
5. There were _____ members in Cabinet Mission.
6. The system of government developed by the European Nations is called _____.
7. Quaid-e-Azam was born on _____ in Karachi.
8. Quaid-e-Azam died on _____.
9. The Battle of Palasi was fought in _____.
10. India got independence on _____.
11. The Partition Plan of sub-continent was announced on _____.
12. _____ is the highest peak of Himalayan Range.
13. Durand Line is _____ Km long.
14. Through _____ Pakistan is connected to China.
15. _____ is the highest peak of Suleiman Range.

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CLASS 9

Name: _____

Section: _____

Subject: Pak. Studies

Worksheet No: 2

Week 3

Read Chapter # 3 and learn the given objectives by heart:

DAY I

1. The full name of Pakistan is 'The Islamic Republic of Pakistan'.
2. The total area of Pakistan is **796096** sq. km.
3. Pakistan is located in the south of the **Continent Asia**.
4. Pakistan is located between latitude **23.5 and 37 N**, longitude **61 and 77 E**.
5. In the north of Pakistan there is **China**.
6. India lies in the East of Pakistan and have almost **1600** km common a border.
7. The border line between Pakistan and Afghanistan is called **Durand Line**.
8. The Central Asian Republics are located in the **North West** of Pakistan.
9. Arabian Sea is located in the **South** of Pakistan.
10. Pakistan is divided into **three** major parts with respect to physical features.

DAY II

11. **Nanga Parbat** is the highest peak of Himalayan Range.
12. The beautiful Kashmir Valley is located between **Pir Panjal and Himalayan Range**.
13. Mt. Godwin Austin or K-2 is the highest peak of Karakoram Range. It is **8611** m high.
14. The world's highest passes are located in **Karakoram Range**.
15. Through **Silk Route** Pakistan is connected to China.
16. Tirich Mir is the highest peak of **Hindukush** Range.
17. Khyber Pass is located in **Koh-e- Sufaid**.
18. **Takht -e- Suleiman** is the highest peak of Suleiman Range.
19. **Rivers Hub and Lyari** flow from **Khirthar Range** towards the Arabian Sea.
20. Khyber Pass lies to the north of **Koh-e-sufaid**.
21. Tochi and Gomal Passes are situated in **Waziristan Hills**.

DAY III

22. The height of Salt Range at Sakesar is **1500m**.
23. There are **two** plateaus in Pakistan.
24. Pothowar Plateau is situated in the **north** of Salt Range.
25. **River Swan** is an important river of Pothowar Plateau.
26. The average temperature of coastal area is about **32** degree.
27. The coastal area of Pakistan is **700** km long.
28. Toba Kakar Mountain Range is situated along the Afghan border to the south of **Waziristan**.

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29. Pothowar Plateau is situated in the north of Salt Range.
30. Hamoon-e-Mashkhel Lake is situated in Baluchistan province.
31. Rivers Gomal, Zhob and Hingol are located Baluchistan province.
32. 'Kharan Desert' is situated in Baluchistan Province.
33. Pakistan is divided into four climatic zones.
34. The plain area of Pakistan starts from Pothowar Plateau and stretches to Mithankot.
35. Doab is a piece of land lies between two rivers.

DAY IV

36. The desert area of Bahawalpur is called Thar.
37. Desert is an area that receives less than 10 inches of rainfall.
38. Thar Desert lies in the province of Punjab.
39. River Indus enters Pakistan at Sakrdu.
40. River Indus makes its Delta near Thatta.
41. Thar is the largest desert of Pakistan.
42. In Pakistan there are forests only on 5 % of its total area.
43. Markhor is the national animal of Pakistan.
44. Chakor is the national bird of Pakistan.
45. The underground water channels in Baluchistan are called 'Karees'.
46. About 20 million acres land in Pakistan is suffering from water logging and salinity.
47. The level of noise pollution is much higher in urban area.
48. Biafoo is a Glacier of Pakistan.

Week 4

DAY I

1. Write five reasons for decreasing of forests.

Following are the five reasons for decreasing of forests: (pg. # 81)

- Excessive cutting of trees
- Diseases if trees
- Decrease in rainfall
- Shortage of river water
- Breaking out of fire in forests
- Climatic changes
- Increase in environmental pollution
- Water logging and salinity

2. Describe the location of Pakistan. (pg.# 53)

Location of Pakistan

Pakistan is located between latitude **23.5 - 37 degree N**, and longitude **61-77 degree E**.

In the north of Pakistan, there is China. India lies in the east of it. Afghanistan is situated in the north-west. Iran lies in the south west of it. In the south there is Arabian Sea.

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DAY II

3. State five causes of soil pollution. (pg.# 85)

Following are the five major causes of soil pollution:

- Releasing used water of houses and factories.
- Spraying pesticides on crops and using chemical fertilizers.
- Natural disasters such as earthquakes and floods etc.
- Salinity and water logging
- Heap of domestic and industrial waste

DAY III

4. Write the names of five Glaciers located in Pakistan. (Pg # 69)

Following are names of five Glaciers located in Pakistan:

- Siachen
- Baltoro
- Biafo
- Rimo
- Batura
- Hispar

5. Following are the types of pollution:

- Air pollution
- Water pollution
- Soil pollution
- Noise pollution

6. What are the hazards to our environment now-a-days? (pg.# 80)

Following are the major hazards to our environment now-a-days:

- Deforestation
- Water logging and salinity
- Desertification
- Environmental Pollution

DAY IV

1. In which mountain range Tochi and Gomal Passes are located? (pg.# 60)

Tochi and Gomal Passes are located in **Waziristan Hills**.

This mountain Range **stretches** in the south of River Kurram along the **Pak- Afghan border** from north to south.

2. Write any five steps taken by the government to reduce environmental pollution.

The following steps have been taken by the government to reduce environmental pollution:

- Tree plantation campaign twice a year
- Awareness among the people through electronic and print media
- Strict legislation to prevent pollution
- Avoid burning leaves, trash, and other material

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Chemistry

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Name: _____

Section: _____

Subject: Chemistry

Assessment No.1

Total Marks: 25

1. Choose the correct option and encircle it.

- i. If molar mass of a compound is 90 g/mole the no of its moles containing 3.011×10^{23} molecules will be
 - a. 1.5 b. 3 c. 0.5 d. 4.5
- ii. A branch of chemistry in which some carbon compounds like carbonates , bicarbonates, carbon monoxide and carbon dioxide is studied is know as
 - a. Organic b. environmental c. analytical d. inorganic
- iii. Which one is heterogeneous mixture
 - a. oil floating on water b. oxygen dissolved in water
 - c. salt dissolved in water d. air
- iv. How many molecules are present in 0.5 moles of Benzene. (C_6H_6)
 - a. 2.011×10^{23} molecules b. 3.011×10^{23} molecules
 - c. 5.011×10^{23} molecules d. 4.011×10^{23} molecules
- v. The natural abundance of chlorine -35 is
 - a. 25% b. 35% c. 45% d. 75%

2. Attempt all questions from the following. Each carries equal marks

- i. A table spoon of NaCl contains 12.5 g of it. Calculate the no. of moles present in it.
- ii. What is atom? Write the name of parts and particles of atom.
- iii. Differentiate between compound and mixture.
- iv. Calculate the mass of 2×10^{25} molecules of sucrose ($C_{12}H_{22}O_{11}$).
- v. Write the valence shell electronic configuration of the following
 - a. Noble gases b. Halogens c. Alkali metals

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Name: _____

Section: _____

Subject: Chemistry

Worksheet No: 2

WEEK – 3 (Chapter -5 (gases))

Day 1.

1. Choose the correct option and encircle it.

- i. In gases the particles are -----
b. Very near b. far apart c. having strong attractive forces d. near
- ii. Which of the following is not the unit of pressure
a. kpa b. mm of Hg c. torr d. m³

2. Give short answers.

- Give the inter-relationship of different units of pressure.
 - Differentiate between diffusion and effusion.
-

Day 2.

1. Choose the correct option and encircle it.

- i. The volume of given amount of a gas is inversely proportional to the applied -----
is the statement of Boyle's law
a. pressure b. no. of moles
c. temperature d. mass of gas
- ii. what is the effect of increased external pressure on boiling point of a liquid
a. Increases b. decreases
c. remains same d. decreases by 10 degrees

2. Give short answers.

- i. What is the effect of decreased pressure on boiling point of a liquid?
 - ii. Define Boyle's law. Derive mathematical equation for this law.
-

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Day 3.

1. Choose the correct option and encircle it

i. volume of given mass of a gas is directly proportional to the absolute temperature.

Is the statement of

- a. Boyle's law b. Charle's law c. Avogadro's law d. universal gas law

ii Absolute temp means ... temp in

- a. Degree centigrade b. Fahrenheit
c. Kelvin scale d. none of them

2. Give short answers.

- i. Derive the mathematical relationship of Charles law
ii. Explain why volume of a gas decreases on increasing pressure at constant temperature
-

Day 4.

1. Choose the correct option

i. In which process speed of the particles increases

- a. melting b. boiling c. sublimation d. evaporation

ii. A liquid boils when its vapour pressure becomes equal to

- a. 760 mm of Hg b. 1 Pa c. 102.325 kPa d. 0.1 atm

2. Give short answers.

- i. What is the difference between evaporation and condensation?
ii. Is evaporation a cooling process?
-

Day 5

1. Choose the correct option and encircle it.

- i. Water boils at 100 degree Celsius but it can be boiled at room temp. which variable should be changed?

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- a. Increasing external pressure
 - b. Decreasing external pressure
 - c. Increasing temp.
 - d. Decreasing temp.
- ii. Which statement from the following is not correct about solids?
- a. Particles move at a higher speed
 - b. Force of attraction is strong
 - c. Small intermolecular spaces
 - d. Force of attraction is weak
2. Give short answers.
- i. Water boils at 120 degree centigrade in pressure cooker . Why?
 - ii. Express the pressure 400 mm of Hg in kPa.
-

Week 4 (Chapter 5 Liquids and solids)

Day 1

1. Choose and encircle the correct option.
- i. Which is not the property of crystalline solids.
 - a. Having well defined shape
 - b. Have repetitive array of particles
 - c. melting point is not fixed
 - d. melting point is fixed
 - ii. Moth ball slowly disappears . Which phenomena is being followed in it?
 - a. Sublimation
 - b. melting
 - c. boiling
 - d. evaporation
2. Give short answers.
- i. What are crystalline solids? Give example
 - ii. Differentiate between crystalline and amorphous solids.
-

Day 2

1. Choose and encircle the correct option.
- i. By kept on heating a boiling liquid temp.of the liquid
 - a. increases
 - b. decreases
 - c. remain same
 - d. kept on changing
 - ii. Carbon exists in how many allotropic forms?
 - a. 3
 - b. 2
 - c. 1
 - d.5
2. Give short answers.
- i. What are allotropes ? Draw the structures of allotropes of phosphorus.
 - ii. Why level of water decreases in aquarium even if it is not leaked?
-

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Day 3

1. Choose and encircle the correct option.

- i. L- shell has sub-shells
 - a. 1s,2s
 - b. 2s,2p
 - c. 3s,3p,3d
 - d. 4s,4p,4d,4f
- ii. Which of the following compound is not having an ionic bond?
 - a. NaCl
 - b. MgO
 - c. MgF₂
 - d. CO₂

2. Give short answers.

- i. Why fish shows signs of stress on a hot summer day?
 - ii. What is sublimation? How a substance sublimates?
-

Day 4

1. Choose and encircle the correct option.

- i. Which of the following molecule have double covalent bond.
 - a. Cl₂
 - b. NH₃
 - c. N₂
 - d. O₂
- ii. The water freezes due to -----in temp.
 - a. increase
 - b. decrease
 - c. remain same
 - d. by periodic change

2. Give short answers.

- i. Diamond , graphite n bucky balls are allotropes of carbon .Draw their structures.
 - ii. Write down the definition of distillation .Draw diagram.
-

Day 5

1. Choose the correct option and encircle it.

- i. The sublimation is conversion of solid into -----
 - a. Gas
 - b. Liquid
 - c. graphite
 - d. carbon
- ii. Evaporation is
 - a. Escape of water molecule from the surface
 - b. Conversion of liquid to solid
 - c. Decrease in kinetic energy
 - d. Increase in temp.

2. Give short answers.

- i. Define evaporation. What is the effect of surface area on evaporation?
 - ii. Define vapour pressure. Write down the names of the factors affecting vapour pressure.
-

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Computer

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CLASS 9

Name: _____

Section: _____

Subject: Computer

Assessment No: 1

Total Marks: 25

Q # 1: Encircle the correct option.

(5)

I. Which of the following is the fastest memory?

- A) USB flash drive
- B) RAM
- C) ROM
- D) Cache

II. What type of software a device driver is?

- A) Application software
- B) Business software
- C) System software
- D) Productivity software

III. Which of the following is volatile memory?

- A) RAM
- B) ROM
- C) USB flash drive
- D) Hard disk

IV. Which software is distributed free of cost for a limited period as a trial version?

- A) Open source software
- B) Shareware
- C) Freeware
- D) Productivity software

V. When were IC chips developed?

- A) Early 1960s
- B) Early 1970s
- C) 1980s
- D) 1990s

Q # 2: Give short answers of the following questions.

(3x4=12)

1. Differentiate between analog and digital computers.
2. Differentiate between application software and system software.
3. Write a short note on Mark-I computer.
4. What is Analytical Engine? Why it has much importance than other historical calculating machines?

Q # 3: Describe the five generations of computers.

(8)

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Name: _____

Section: _____

Subject: Computer

Worksheet No: 2

Week 3

Q#1: What are the types of computers?

Q#2: Describe analog computers.
Analog Computers

Q#3: Describe Digital Computers.

Digital Computer

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**Q#4: Describe Hybrid computer.
Hybrid Computers**

**1.1.1 CLASSIFICATION OF DIGITAL COMPUTERS
Q#5: Describe the Classification of Digital Computer.**

Q#6: What is supercomputer?

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Q#7: What is Mainframe Computer?

Q#8: What is Minicomputer?

Q#9: What is Microcomputer?

1.2 ROLE OF COMPUTER

Computer plays important role in modern society and it has changed it in many ways. It is the best invention ever made in the history of modern technology. It has brought advancement in various fields of life.

1.2.1 USE OF COMPUTERS IN VARIOUS FIELDS

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Q#10: Describe the role of computer in Education.
Education

Q#11: Describe the role of computer in Business.
Business

Q#12: Describe the role of computer in Defense.
Defense

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Q#13: Describe the role of computer in Media.

Media

Q#14: Describe the role of computer in Manufacturing.

Manufacturing

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1.2.2 CAREERS IN INFORMATION TECHNOLOGY (IT)

Q#15: Write a note on career as software engineer.

Software Engineer

Q#16: Write a note on career as Hardware Engineer.

Hardware Engineer

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Q#17: Write a note on career as Network Administrator.

Network Administrator

Q#18: Write a note on career as Database Administrator.

Database Administrator

Q#19: Write a note on career as Web Designer.

Web Designer

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Q#20: Write a note on career as Multimedia Designer.

Multimedia Designer

Q#21: Write a note on career as Information Security Analyst.

Information Security Analyst

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Q#22: Write a note on career as Computer Teacher.

Computer Teacher

Week 4

1.3 COMPUTER HARDWARE

Q#23: Define Computer Hardware.

1.3.1 HARDWARE COMPONENTS OF COMPUTER

Q#24: Describe Hardware Components of Computer.

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Q#25: What are Input Devices?

INPUT DEVICES

Q#26: What is Keyboard?

Keyboard

Q#27: What is Mouse?

Mouse

Q#28: What is Microphone?

Microphone

Q#29: What is Scanner?

Scanner

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Q#30: What is Barcode Reader?

Barcode Reader

Q#31: What is Digital Camera?

Digital Camera

Q#32: What is Touch Screen?

Touch Screen

Q#33: Describe System Unit?

SYSTEM UNIT

Q#34: What is Motherboard?

Motherboard

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Q#35: What is Microprocessor?

Microprocessor

Q#36: What is ALU?

Q#37: What is CU?

Q#38: What are registers?

Q#39: What are storage devices?

STORAGE DEVICES

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❖ Hard Disk

❖ CD

❖ DVD

❖ Memory Card

❖ USB Flash Drive

Q#40: What are output devices?

OUTPUT DEVICES

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❖ Monitor

Q#41: What is Printer? Describe its types.

Printer

❖ *Impact printer*

❖ *Non-Impact printer*

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Q#42: What is Plotter?

Plotter

Q#43: What is Speaker?

Speaker

Q#44: What is Computer Memory? Describe its types.

MEMORY

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❖ ROM (Read Only Memory)

❖ RAM (Random Access Memory)

❖ Cache Memory

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URDU

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CLASS 9

Name: _____

Section: _____

Subject: Urdu

Assessment No.1

Total Marks: 25

۱۰

سوال نمبر ۱۔ متن کو مد نظر رکھ کر درست جواب کی نشان دہی () سے کریں۔

۱۔ لوگ بہت کم کاہل ہوتے ہیں۔

الف۔ بے فکر رہنے والے ب۔ خوش رہنے والے ج۔ روزانہ محنت کرنے والے د۔ خود میں مگن رہنے والے

۲۔ الطاف حسین حالی پیدا ہوئے۔

الف۔ آگرہ میں ب۔ پانی پت میں ج۔ بنارس میں د۔ کلکتہ میں

۳۔ اٹھنے بیٹھنے اور چلنے پھرنے میں سستی کرنا ہے

الف۔ بے کاری ب۔ بے عملی ج۔ کاہلی د۔ سستی

۴۔ مولانا حالی کی تصنیف کا نام ہے۔

الف۔ گودان ب۔ زبورِ نجم ج۔ انتخابِ یادگار د۔ مدو جزر اسلام

۵۔ قوم کی بہتری کی توقع کی جاسکتی ہے۔

الف۔ کاہلی چھوڑ کر ب۔ فکرمندی چھوڑ کر ج۔ خوش رہ کر د۔ پریشان ہو کر

۶۔ حالی نے شاعری میں شاگردی اختیار کی۔

الف۔ ذوق کی ب۔ مومن کی ج۔ غالب کی د۔ میر تقی میر کی

۷۔ سرسید احمد خان نے علی گڑھ کالج کی بنیاد رکھی۔

الف۔ ۱۸۷۲ء میں ب۔ ۱۸۷۳ء میں ج۔ ۱۸۷۴ء میں د۔ ۱۸۷۵ء میں

۸۔ الطاف حسین حالی کو شمس العلماء کا خطاب ملا۔

الف۔ ۱۹۰۴ء میں ب۔ ۱۷۰۴ء میں ج۔ ۱۸۰۴ء میں د۔ ۱۹۰۴ء میں

۹۔ سرسید احمد خان نے ۱۸۷۰ء میں علمی و ادبی رسالہ جاری کیا۔

الف۔ اسباب بغاوت ہند ب۔ تہذیب الاخلاق ج۔ آثار الصنادید د۔ خطبات احمدیہ

۱۰۔ اللہ کا کد کس میں مگن رہتا ہے

الف۔ باتوں میں ب۔ عبادت میں ج۔ اپنی کملی میں د۔ خدمت میں

۱۰

سوال نمبر ۲۔ درج ذیل سوالات کا بغور مطالعہ کرتے ہوئے حل تحریر کیجیے۔

۱۔ غیر رسمی خط کی تعریف لکھیے۔

۲۔ حمد کیسی نظم کو کہتے ہیں؟

۳۔ درج ذیل الفاظ کے متضاد لکھیے۔

کاہلی - عقل - عارضی - وحشی

۴۔ درج ذیل الفاظ و مرکبات کے معنی لکھیں۔

مقدم - محرم - محیط - آفاق

۵۔ محاورات کو جملوں میں اس طرح استعمال کریں کہ مفہوم واضح ہو۔

طوطا چشم ہونا - خاک میں ملانا

سوال نمبر ۳۔ اپنے دوست کے نام خط تحریر کیجیے اور بتائیے کہ کورونا وائرس کی وبا سے بچتے ہوئے آپ اپنا وقت کن دلچسپ اور کارآمد مشاغل میں صرف کر رہے ہیں۔ ۵

ST. MARY'S ACADEMY

CLASS 9

Name: _____

Section: _____

Subject: Urdu

Worksheet No: 2

(نصاب: سبق: شاعروں کے لطیفے۔ مصنف: مولانا محمد حسین آزاد۔ صفحہ نمبر ۲۰ تا ۲۶)

نوٹ: اردو کے کام کے لیے ممکن ہو تو answer sheet کا استعمال کیجیے۔ نیلا مارکر اور نیلا بال پوائنٹ یا پوائنٹر کا استعمال کیجیے۔
صفحہ کے دونوں جانب حاشیہ لگائیے۔ خوشخطی کا خاص خیال رکھیے۔

سبق کا بغور مطالعہ کیجیے۔ مشکل الفاظ کے معانی لغت سے تلاش کیجیے اور کالم بنا کر کم از کم ۲۰ الفاظ معانی تحریر کیجیے۔

:Day one

(کتاب اردو صفحہ نمبر 67)

مکالمہ نویسی کی تعریف لکھیے

Day .2

(قواعد و انشاء صفحہ 74 تا 75)

”دکاندار اور گاہک کے مابین“ مہنگائی کے موضوع پر مکالمہ تحریر کیجیے۔

”محمد حسین آزاد کا تعارف“ اور سبق ”شاعروں کے لطیفے“ کا مطالعہ کرتے ہوئے کم از کم ۲۰ MCQ'S تلاش کر کے

Day .3

درست جواب کی نشاندہی کیجیے۔

سبق ”شاعروں کے لطیفے“ کا بغور مطالعہ کرتے ہوئے حل تحریر کیجیے۔ (مشق سبق ”شاعروں کے لطیفے“ صفحہ نمبر 23 تا 66)

Day .4

(کتاب اردو صفحہ نمبر ۲۴)

سوال نمبر ۲۔ درست اور غلط بیان کی نشاندہی کیجیے۔

(کتاب اردو صفحہ نمبر ۲۴)

سوال نمبر ۴۔ (موزوں الفاظ سے خالی جگہ پر کیجیے)

(کتاب اردو صفحہ نمبر ۲۵)

سوال نمبر ۵۔ الفاظ کے متضاد لکھیں۔ کمال، طرف داری، گرمی، مطلع، خاص، بے روزگاری

(کتاب اردو صفحہ نمبر ۲۵)

سوال نمبر ۶۔ مذکر اور مؤنث الفاظ الگ الگ کیجیے۔

(کتاب اردو صفحہ نمبر ۲۵)

سوال نمبر ۷۔ اعراب لگا کر تلفظ واضح کیجیے۔ (اعراب لغت سے تلاش کیجیے)۔

(کتاب اردو صفحہ نمبر ۲۵)

سوال نمبر ۹۔ واحد الفاظ کی جمع اور جمع الفاظ کی واحد تحریر کیجیے۔

Day .5

(کتاب اردو صفحہ نمبر ۲۵)

سوال نمبر ۱۰۔ کالم الف کے الفاظ کالم (ب) کے متعلقہ الفاظ سے ملائیے۔

(کتاب اردو صفحہ نمبر ۲۶)

☆ ذومعنی الفاظ کی پانچ مثالیں مع معنی لکھیں۔

(کتاب اردو صفحہ نمبر ۲۰)

☆ مولانا محمد حسین آزاد کی حالاتِ زندگی۔

(کتاب اردو صفحہ نمبر ۲۰)

☆ مولانا محمد حسین آزاد کے اسلوب کی خصوصیات۔

(کتاب اردو صفحہ نمبر ۲۰)

☆ مولانا محمد حسین آزاد کی اہم تصانیف

ST. MARY'S ACADEMY

CLASS 9

(نصاب: سبق: شاعروں کے لطیفے۔ مصنف: مولانا محمد حسین آزاد۔ صفحہ نمبر ۲۰ تا ۲۶)

نوٹ: اردو کے کام کے لیے ممکن ہو تو answer sheet کا استعمال کیجیے۔ نیلا مارکر اور نیلا بال پوائنٹ یا پوائنٹر کا استعمال کیجیے۔
صفحے کے دونوں جانب حاشیہ لگائیے۔ خوشخطی کا خاص خیال رکھیے۔
سبق کا بغور مطالعہ کیجیے۔ مشکل الفاظ کے معانی لغت سے تلاش کیجیے اور کالم بنا کر کم از کم ۲۰ الفاظ معانی تحریر کیجیے۔

:Day one

(کتاب اردو صفحہ نمبر 67)

مکالمہ نویسی کی تعریف لکھیے

Day .2

(قواعد و انشاء صفحہ 74 تا 75)

”دکاندار اور گاہک کے مابین“ مہنگائی کے موضوع پر مکالمہ تحریر کیجیے۔

”محمد حسین آزاد کا تعارف“ اور سبق ”شاعروں کے لطیفے“ کا مطالعہ کرتے ہوئے کم از کم ۲۰ MCQ'S تلاش کر کے

Day .3

درست جواب کی نشاندہی کیجیے۔

سبق ”شاعروں کے لطیفے“ کا بغور مطالعہ کرتے ہوئے حل تحریر کیجیے۔ (مشق سبق ”شاعروں کے لطیفے“ صفحہ نمبر 23 تا 66)

Day .4

(کتاب اردو صفحہ نمبر ۲۴)

سوال نمبر ۲۔ درست اور غلط بیان کی نشاندہی کیجیے۔

(کتاب اردو صفحہ نمبر ۲۴)

سوال نمبر ۳۔ (موزوں الفاظ سے خالی جگہ پر کیجیے)

(کتاب اردو صفحہ نمبر ۲۵)

سوال نمبر ۵۔ الفاظ کے متضاد لکھیں۔ کمال، طرف داری، گرمی، مطلع، خاص، بے روزگاری

(کتاب اردو صفحہ نمبر ۲۵)

سوال نمبر ۶۔ مذکر اور مونث الفاظ الگ الگ کیجیے۔

(کتاب اردو صفحہ نمبر ۲۵)

سوال نمبر ۷۔ اعراب لگا کر تلفظ واضح کیجیے۔ (اعراب لغت سے تلاش کیجیے)۔

(کتاب اردو صفحہ نمبر ۲۵)

سوال نمبر ۹۔ واحد الفاظ کی جمع اور جمع الفاظ کی واحد تحریر کیجیے۔

Day .5

(کتاب اردو صفحہ نمبر ۲۵)

سوال نمبر ۱۰۔ کالم الف کے الفاظ کالم (ب) کے متعلقہ الفاظ سے ملائیے۔

(کتاب اردو صفحہ نمبر ۲۶)

☆ ذمہ داری الفاظ کی پانچ مثالیں مع معنی لکھیں۔

(کتاب اردو صفحہ نمبر ۲۰)

☆ مولانا محمد حسین آزاد کی حالات زندگی۔

(کتاب اردو صفحہ نمبر ۲۰)

☆ مولانا محمد حسین آزاد کے اسلوب کی خصوصیات۔

(کتاب اردو صفحہ نمبر ۲۰)

☆ مولانا محمد حسین آزاد کی اہم تصانیف

ST. MARY'S ACADEMY

CLASS 9

(نصاب: نظم: نعت۔ شاعر: امیر مینائی (صفحہ نمبر ۱۱۰ تا ۱۱۳))

نوٹ: اردو کے کام کے لیے ممکن ہو تو answer sheet کا استعمال کیجیے۔ نیلا مارکر اور نیلا بال پوائنٹ یا پوائنٹر کا استعمال کیجیے۔

صفحے کے دونوں جانب حاشیہ لگائیے۔ خوشخطی کا خاص خیال رکھیے۔

نظم کا بغور مطالعہ کیجیے۔ مشکل الفاظ کے معانی لغت سے تلاش کیجیے اور کالم بنا کر کم از کم ۲۰ الفاظ معانی تحریر کیجیے۔ (صفحہ نمبر ۱۱۱)

:Day one

ادبی اصطلاح میں ”نعت“ سے کیا مراد ہے؟ (تعریف لکھیے)

Day .2

(صفحہ نمبر ۱۰۸ تا ۱۰۹)

”قافیہ اور ردیف“ کی تعریف لکھیے۔

سوال نمبر ۲۔ اس نعت میں ردیف کیا ہے؟

سوال نمبر ۳۔ اس نعت کے قافیے تحریر کیجیے۔

سوال نمبر ۶۔ کالم ملائیے۔

سوال نمبر ۸۔ اعراب لگا کر تلفظ واضح کیجیے۔ (اعراب لغت سے تلاش کیجیے)۔

”امیر مینائی کا تعارف“ اور نظم ”نعت“ کا مطالعہ کرتے ہوئے کم از کم ۲۰ MCQ'S تلاش کر کے درست جواب کی نشاندہی کیجیے۔

Day .3

امیر مینائی کے تعارف کا مطالعہ کیجیے۔ اور درج ذیل سوالات کے جواب تحریر کیجیے۔

Day .4

☆ امیر مینائی کی حالات زندگی سے متعلق چند سطوریں (لائیں) تحریر کیجیے۔

☆ امیر مینائی کے اسلوب کی اہم خصوصیات

☆ امیر مینائی کی اہم تصانیف

رسمی خط کی تعریف لکھیے۔ (کتاب اردو۔ صفحہ نمبر ۴۴)

Day .5

اپنے علاقے کے کونسلر کے نام خط تحریر کیجیے اور درخواست کیجیے کہ ”کورونا وائرس کی وبا“ سے بچنے کے لیے حفاظتی تدابیر اور علاقے کے مستحقین کو راشن کی تقسیم میں آپ کی مدد کریں۔

ST. MARY'S

ST. MARY'S ACADEMY

CLASS 9

CLASS 9

ETHICS

ST. MARY'S ACADEMY

CLASS 9

Name: _____

Section: _____

Subject: Ethics

Assessment No.1

Total Marks: 25

Q1 Fill in the blanks. (use your neat copy for answers)(7)

- (1) Human beings never remained without any _____.
- (2) The follower of Jainism are over _____.
- (3) The first Teer Thinker was _____.
- (4) The last Teer Thinker was _____.
- (5) _____ has the highest importance in Jainism.
- (6) Non-living spirits have _____ features.
- (7) _____ is the finest form of matter.

Q2 Answer the following questions in 3 to 4 lines. (6x3=18)

1- What is the concept of god in Hinduism?

2- What is the concept of god in Zoroaster's?

3- What is the concept of god in Buddhism?

4- What is the concept of God in Sikhism?

5- Who guided men for worship?

6- How the worship places come in existence?

ST. MARY'S ACADEMY

CLASS 9

Name: _____

Section: _____

Subject: Ethics

Worksheet No: 2

Lesson No.5: Places of worship

After reading the lesson fill in the blanks. (use your neat copy for answers)

- (1) According to ____ this world is a place of preparation for the life to come.
- (2) In Hinduism a worship place is called a _____.
- (3) To bath in river _____ is considered a blessing.
- (4) In _____ physical meditation is stressed.
- (5) The status represents the characteristics of _____.
- (6) In Hinduism women mostly worship at _____.
- (7) The concept of the _____ being has always been in _____ mind.
- (8) To worship collectively the worship _____ were established.
- (8) Currently there are _____ of worship places.
- (9) Kunbh Mela is a _____ festival.
- (10) Kunbh Mela takes place every _____ years at _____ different places.
- (11) Cow monkey and snake are considered sacred by the _____.
- (12) Vedanta focuses on getting _____.
- (13) Sandalwood and rice are offered to the _____.
- (14) Going around garlanded statues is called _____

Answer the following questions in 3 to 4 lines

1- Name any 5 Hindu gods?

2- Which animals are considered sacred by the Hindus?

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CLASS 9

3-What is Vedanta?

4-What is Parkartma?

5-Why zoroasters believe in fire?

6-What burning fire reminds Zoroasters?

7- What is appreciated in Zoroasters community?

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CLASS 9

8- What vows are made by mendicants?

9-What is the church?

10- What is the concept of worship in Islam?

11- Name the schedule of five prayers?

12- What is Zakat? What is fasting?

ST. MARY'S ACADEMY

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CLASS 9

ISLAMIIYAT

ST. MARY'S ACADEMY

CLASS 9

Name: _____

Section: _____

Subject: Islamiyat

Assessment No: 1

Total Marks: 15

(حصہ اول)

سوال ۱۔ ہر سوال کے دیئے گئے چار ممکنہ جوابات میں سے درست جواب کا انتخاب کیجئے۔ (۵)

۱۔ استغفار کا معنی ہے۔

ا۔ بخشش ب۔ بخشش طلب کرنا ج۔ بخش دینا د۔ معاف کرنا

۲۔ قرآن کا موضوع ہے۔

ا۔ آخرت ب۔ دنیا ج۔ حیوان د۔ انسان

۳۔ قرآنی تعلیمات کا تعلق ہے۔

ا۔ نماز سے ب۔ آخرت سے ج۔ جہاد سے د۔ زندگی کے تمام پہلوؤں سے

۴۔ قرآن مجید کی لکھی ہوئی آیات رکھ دی جاتی تھیں۔

ا۔ مسجد نبوی ﷺ میں ب۔ مسجد حرام میں ج۔ خانہ کعبہ میں د۔ مقام ابراہیم پر

۵۔ وہ کتاب ہے جس میں شک کا گزر نہیں۔

ا۔ تورات پر ب۔ زبور پر ج۔ انجیل پر د۔ قرآن پر

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CLASS 9

(حصہ دوم)

س ۲۔ مندرجہ ذیل سوالات کے مختصر جوابات تحریر کریں۔ (۱۰)

س ۱۔ فضیلت علم کے بارے میں ایک حدیث کا ترجمہ لکھیے۔

س ۲۔ قرآن کی تعلیمات کی جامعیت کیا ہے؟

س ۳۔ تم میں سب سے اچھا کون ہے؟

س ۴۔ قرآنی علام کی دو خصوصیات لکھیں۔

س ۵۔ عہد نبوی ﷺ میں حفاظت قرآن کا کیا اہتمام تھا؟



ST. MARY'S ACADEMY

CLASS 9

Name: _____

Section: _____

Subject: Islamiyat

Worksheet No: 2

ورک شیٹ ۲ اسلامیات برائے جماعت نہم

(حصہ اول)

س۔ ۱۔ ہر سوال کے دیئے گئے چار ممکنہ جوابات میں سے درست جواب کا انتخاب کیجئے۔

۱۔ غزوہ بدر کی رات اللہ تعالیٰ نے مسلمانوں کو چادر اڑھادی۔

۱۔ اون کی ب۔ گہری نیند کی ج۔ ریت کی د۔ سکون کی

۲۔ اللہ تعالیٰ نے بارش برسا کر مسلمانوں کو کر دیا۔

۱۔ تازہ دم ب۔ خوش ج۔ پرسکون د۔ پاک صاف

۳۔ بارش سے مسلمانوں کے پاؤں۔

۱۔ پھسل گئے ب۔ جم گئے ج۔ اکھڑ گئے د۔ دھنس گئے

۴۔ انھیں تم نے قتل نہیں کیا بلکہ انھیں قتل کیا ہے؟

۱۔ مسلمانوں نے ب۔ کنکریوں نے ج۔ اللہ نے د۔ فرشتوں نے

۵۔ یہ کنکریاں آپ ﷺ نے نہیں ماریں بلکہ ماری ہیں۔

۱۔ مومنوں نے ب۔ فرشتوں نے ج۔ ابابیلوں نے د۔ اللہ نے

۶۔ ان احسانات سے مومنوں کو

۱۔ آزمایا گیا ب۔ نوازا گیا ج۔ بہلایا گیا د۔ ورغلا یا گیا

۷۔ اللہ کافروں کی تدبیر کو کرنے والا ہے؟

۱۔ مضبوط ب۔ کمزور ج۔ صبح د۔ ختم

۸۔ اے کافرو تم فتح چاہتے تھے سو آجکی۔

۱۔ فتح ب۔ شکست ج۔ کامیابی د۔ مدد

۹۔ یہ تمھارے لیے بہتر ہے اے کافرو اگر تم

۱۔ روزے رکھو ب۔ باز آ جاؤ ج۔ جنگ نہ کرو د۔ نماز و انعم کرو

۱۰۔ اللہ کے غضب میں گرفتار ہو گا وہ شخص جو بلا وجہ میدان جنگ سے۔

۱۔ گھبرائے گا ب۔ ڈرے گا ج۔ پیٹھ پھیرے گا د۔ چھپے گا

ST. MARY'S ACADEMY

CLASS 9

(حصہ دوم)

س ۲۔ مندرجہ ذیل سوالات کے مختصر جوابات تحریر کریں۔

۱۔ درود شریف کی فضیلت پر ایک ترجمہ لکھیے۔

۲۔ گہری نیند کا مسلمانوں کو کیا فائدہ ہوا؟

۳۔ اللہ تعالیٰ کی نگاہ میں محبوب بننے کے لیے ہمیں کیا کرنا چاہیے؟

۴۔ فضیلت علم کے بارے میں ایک حدیث کا ترجمہ لکھیے۔

۵۔ علم کی اہمیت و ضرورت لکھیے۔

۶۔ تم میں سب سے اچھا کون ہے؟

۷۔ قرآن کی تعلیمات کی جامعیت لکھیے۔

۸۔ اللہ تعالیٰ نے انسان کی کس قسم کی ضروریات پوری کر دی ہیں۔

۹۔ عہد نبوی ﷺ میں حفاظت قرآن کا کیا اہتمام تھا؟

۱۰۔ قرآنی علام کی دو خصوصیات لکھیں۔

(حصہ سوم)

نوٹ۔ درج ذیل سوالات کے تفصیلی جوابات تحریر کریں۔

س ۳۔ حدیث ۵، ۴ کا ترجمہ اور تشریح تحریر کریں۔ نیز ان احادیث کا عملی زندگی سے تعلق بھی واضح کریں۔

(سورة الانفال رکوع ۳، ۲ حدیث ۵، ۴) ان اسباق سے ورک شیٹ تیار کی گئی ہے۔

ST. MARY'S ACADEMY

CLASS 9

CLASS 9

ENGLISH

ST. MARY'S ACADEMY

CLASS 9

Name: _____

Section: _____

Subject: English

Assessment No.1

Total Marks: 25

Q.1 Write the magnetic statements of the unit "All is not lost" (4)

Q.2 Provide the meanings of the following words. (5)

- Devastating
- Miserable
- Curative
- Relapse
- Neurology

Q.3: Provide the answers of the following questions. (6)

1. What do you infer about her professional skills from the expression "Try once for her"?
2. What do you understand by the term "counseling"?

Q.4 Insert an appropriate relative pronoun in the following blanks. (5)

- I know the woman ----- met in the shop.
- Shazia likes the candies ----- her brother brought from the shop.
- Anwar ----- no one listened to was right.
- This is the student ----- stood first in the class.
- These are the color pencils ----- I want to buy.

Q.5. Write the past perfect continuous form of verbs in brackets. (5)

- They ----- (take) exercise since morning.
- I ----- (do) my home work for two hours when my friend came.
- We ----- (walk) along the road for 20 minutes when a car stopped.
- The patient ----- (cry) with pain, when the doctor arrived.
- Sara was sitting on the chair, out of breath .He ----- (run)

ST. MARY'S ACADEMY

CLASS 9

Name: _____

Section: _____

Subject: English

Worksheet No: 2

(3RD WEEK, DAY 1)

Q.1 Read chapter 10 "Noise in the environment" and find out the answers and learn them by heart.

1. What is normal functioning and how is it disrupted?
2. Analyze paragraphs for topic sentences, supporting sentences and concluding sentences.
3. How does the technology increase noise pollution? What is technology- based irritants?
4. What harmful effects noise pollution is causing on human health?
5. How can we cope with this serious issue?

Q.2 Write and learn the *Magnetic statements*

- There is a need to acquire more civic sense and responsible attitude to avoid the unnecessary use of this irritant in the environment.
- People must develop more awareness about the dangerous impact of noise on human health.

(3RD WEEK, DAY 2)

Q.1 Write and learn the meanings of the following words.

1. Distracts
2. Immense
3. Mushrooming
4. Excessively
5. Patrolling
6. Insomnia
7. Irritant

Q.2 Write the synonyms of the following words.

1. Disrupts
2. Rapid
3. Unmonitored
4. Nuisance
5. Piercing

(3RD WEEK, DAY 3)

Q.1: Draw and learn the table given on page number 117, named as Transitional Devices.

Q.2: Identify Transitional devices in paragraphs 8 and 9.

ST. MARY'S ACADEMY

CLASS 9

(3RD WEEK, DAY 4)

Q.1: Read the sentences and insert appropriate transitional devices in blanks given page 118.

Q.2: Underline Adverb Clauses in the following sentences .Also encircle the subordinating conjunctions Page 118.

(3RD WEEK, DAY 5)

Q.1 Supply suitable adverb Clauses. (Page 119)

Q.2 Use the following Subordinating Conjunctions in sentences.

- Since
- Unless
- Though
- While
- As
- When
- After

(4TH WEEK, DAY 1)

Q.1: Identify and write these clauses in the relevant columns of the table. Page 115

Q.2: Read the sentences and tick the right adverbial clause given in brackets. Page 120

Q.3: Make sentences as correct or incorrect .Put a comma to make the sentence correct.

(4TH WEEK, DAY 2)

Q.1: write a paragraph on: "Effects of land pollution on Human Health"

Q.2: Write an application to the principal of your school for arranging separate bins for dry waste (plastic, glass, paper).

(4TH WEEK, DAY 3)

Q.1: Write a letter to the executive Officer Environmental Protection Agency in your city, informing him about the irregular collection of solid wastes in your area.

Q.2: Provide at least 10 suggestions that how we can eradicate the problem "POLLUTION" from our motherland.

ST. MARY'S ACADEMY

CLASS 9

(4TH WEEK, DAY 4)

Q.1: In paragraph 3, 4, 5, 6, and 7 the writer is describing the cause, effect and solution of noise pollution .Take help from page 115.

Q.2: How many words can you form from these root words? Page 116

- Pollute
- Construct
- develop

(4TH WEEK, DAY 5)

Q.1: Choose ten words you have made from the root words (pollute, construct, develop) and use them in sentences. Page 116

Q.2: Write Letter and Application format.

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MATHS

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Name: _____ Section: _____

Subject: Mathematics **Assessment No.1** Total Marks: 25

Choose the best one

5

1. The idea of a matrices was given by: ____

- (a) Arthur Cayley (b) Leonard Euler
(c) Henry Briggs (d) John Napier

2. A square matrix A is called singular if

- (a) $|A| \neq 0$ (b) $|A| = 0$
(c) $A = 0$ (d) $A^t = 0$

3. If A is a matrix then its transpose is denoted by:

- (a) A^{-1} (b) A^t
(c) $-A$ (d) $(A^t)^t$

4. A square matrix A is called non-singular if:

- (a) $|A| = 0$ (b) $A = 0$
(c) $|A| \neq 0$ (d) $A^t = 0$

5. If $A+B=B+A$ Then this property is called

- (a) Multiplicative inverse (C) Associative property
(b) Commutative Property (d) Distributive Property

SECTION II (4*5=20)

1. Find the value of a, b, c and d which satisfy the matrix equation.

$$\begin{bmatrix} a+c & a+2b \\ c-1 & 4d-6 \end{bmatrix} = \begin{bmatrix} 0 & -7 \\ 3 & 2d \end{bmatrix}$$

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2. Use matrices, if possible, to solve the following systems of linear equations by Matrix inversion method ii. Cramer's rule

$$2x + y = 3$$

$$6x + 5y = 1$$

3. Two sides of a rectangle differ by 3.5cm. Find the dimensions of the rectangle if its perimeter is 67cm.

4. Two cars that are 600 km apart are moving towards each other. Their speeds differ by 6 km per hour and the cars are 123 km apart after hours. Find the speed of each car.

5.

$$\text{If } 2 \begin{bmatrix} 2 & 4 \\ -3 & a \end{bmatrix} + 3 \begin{bmatrix} 1 & b \\ 8 & -4 \end{bmatrix} = \begin{bmatrix} 7 & 10 \\ 18 & 1 \end{bmatrix}, \text{ then find } a \text{ and } b.$$

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Name: _____

Section: _____

Subject: Mathematics

Worksheet No: 2

Chapter no. 2

Name : _____

Choose the best one.

1) The conjugate of $5 + 4i$ is _____

- (a) $-5 + 4i$
- (b) $-5 - 4i$
- (c) $5 - 4i$
- (d) $5 + 4i$

2) . The value of i^9 is _____

- (a) 1
- (b) -1
- (c) i
- (d) -i

3) . Every real number is _____

- (a) A positive integer
- (b) A rational number
- (c) A negative integer
- (d) A complex number

4) . Real part of $2ab(-2 + i)i$ is _____

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(a) $2ab$

(b) $-2ab$

(c) $2abi$

(d) $-2abi$

5) . Imaginary part of $-i(3i+2)$ is_

(a) -2

(b) 2

(c) 3

(d) -3

6) . Which of the following sets have the closure property w.r.t. addition_____

(a) $\{0\}$

(b) $\{0, -1\}$

(c) $\{0, 1\}$

(d) $\{1, -2, 2\}$

7) . Name the property of real numbers used in $5 \times 1 = 5$

(a) Additive identity

(b) Additive Inverse

(c) Multiplicative identity

(d) Multiplicative Inverse

8) . If $x, y, z \in \mathbb{R}$ and $z < 0$ then $x < y$

(a) $xz < yz$

(b) $xz > yz$

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(c) $xz = yz$

(d) none of these

9) . If $a, b \in \mathbb{R}$ then only one of $a = b$ or $a < b$ or $a > b$ holds is called...

(a) Trichotomy property

(b) Transitive property

(c) Additive property

(d) Multiplicative property

10) . A non-terminating, non-recurring decimal represents:

(a) A natural number

(b) A rational number

(c) An irrational number

(d) A prime number

11). The union of the set of rational numbers and irrational numbers is known as set of ____

(a) Rational number

(b) Irrational

(c) Real number

(d) Whole number

12) 3.6 is a ____ number.

(a) Rational

(b) Irrational

(c) Real

(d) None

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13) The value of i^{10} is:

(a) -1

(b) 1

(c) $-i$

(d) i

14) . The conjugate of $2 + 3i$ is ____

(a) $2 - 3i$

(b) $-2 - 3i$

(c) $-2 + 3i$

(d) $2 + 3i$

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SECTION II

Answer the following questions.

1. Define rational numbers.
2. Define additive Identity.
3. Define conjugate of a complex number. Write the conjugate of $(3-5i)$.
4. Express the concept of radicands and radicands.
5. Represent in number line.

$$15/7, \quad -2/3$$

6. Convert the fraction $205/18$ into decimal fraction.

7. Simplify

$$\frac{(81)^n \cdot 3^5 - (3)^{4n-1} (243)}{(9^{2n})(3^3)}$$

8. Simplify $\left(\frac{x^a}{x^b}\right)^{a+b} \times \left(\frac{x^b}{x^c}\right)^{b+c} \times \left(\frac{x^c}{x^a}\right)^{c+a} = 1$

9. Simplify $\frac{2^{1/3} \times (27)^{1/3} \times (60)^{1/2}}{(180)^{1/2} \times (4)^{-1/3} \times (9)^{1/4}}$

10. Find the value of x and y , if $x+yi+1=4-3i$

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11. Evaluate i^{27}

12. Simplify $(2-3i)(3-2i)$ and write your answer in form $a+bi$.

13. Simplify $(1+i)/(1-i)$

14. Use laws of exponents to simplify.

$$\sqrt{\frac{(216)^{2/3} \times (25)^{1/2}}{(.04)^{-1/2}}}$$

15. Solve the following equations for real x and y .

(i) $(2 - 3i)(x + yi) = 4 + i$

(ii) $(3 - 2i)(x + yi) = 2(x - 2yi) + 2i - 1$

(iii) $(3 + 4i)^2 - 2(x - yi) = x + yi$

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CLASS 9

Physics

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CLASS 9

Name: _____

Section: _____

Subject: Physics

Assessment No.1

Total Marks: 25

Q # 1: Encircle the correct option.

(5)

I. Which of the following is correct for an apple hitting the Newton's head?

A) 1665

B) 1664

C) 1663

D) 1662

II. What is the formula of Gravitational force?

A) $F = G m_1 m_2 / d^2$

B) $F = G m_1 m_2 \times d^2$

C) $F = G m_1 m_2 / d$

D)

III. Which of the following is unit of G?

A) $N m^2 Kg^{-2}$

B) $N m^2 Kg^2$

C) $N m^{-2} Kg^{-2}$

D) $N m^2 Kg^{-1}$

IV. If value of F becomes 4 times in formula of gravitation then G will be

A) decrease

B) same

C) 4 times

D) increase

V. Mass of earth is calculated as in Kg

A) 6×10^{24}

B) 6×10^{24}

C) 6×10^{24}

D) 6×10^{24}

Q # 2: Give short answers of the following questions.

(3x4=12)

1. Differentiate between G and g.
2. Differentiate between acceleration due to gravity on earth and moon.
3. Write a short note Gravitational Field.
4. The Gravitational force between two identical lead spheres kept at a distance of 1m apart is 0.006673 N. Find their masses?

Q # 3: Describe Newton's Law of gravitation in detail.

(8)

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CLASS 9

Name: _____

Section: _____

Subject: *Physics*

Worksheet No: 2

Per day work for 5 days is as:

1. Find the mass of the Earth using Newton's law of gravitation and definition of weight.
2. Prove that the Vibratory motion of simple pendulum is SHM.
3. Define and explain Types of waves.
4. Discuss the Variation of g with Altitude.
5. Define Artificial Satellite and discuss the motion of a Satellite.

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CLASS 9

BIOLOGY

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CLASS 9

Name: _____ Section: _____

Subject: *Biology* **Assessment No.1** Total Marks: 25

Q1. Multiple choice questions:

- i) -----study structure and function of cell and cell organelles.
a) Anatomy b) physiology c) cell biology d) histology
- ii) Study of interaction between organism and their environment is called-----
a) socio- biology b) taxonomy c) parasitology d) environmental biology
- iii) study of insect is called -----
a) immunology b) parasitology c) entomology d) anatomy
- iv) Study of biological processes using mathematical technique is called-----
a) Biometry b) bio economics c) biophysics d) a&b
- v) Similarities between working principles of lever and limbs of human is studied in-----
a) Biometry b) bio economics c) biophysics d) a&b
- vi) Calculation of cost value and profit value of animal and plants study in-----
--
a) Biometry b) bio economics c) biophysics d) a&b
- vii) Liver transplantation is the study-----
a) Medicine b) surgery c) physiology d) anatomy
b)

Q2. Short answers:

i) Differentiate agriculture and horticulture-----

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ii) Define biogeography -----

iii) Differentiate cell biology and histology -----

iv) Define genetics and inheritance -----

v) Define interdisciplinary sciences and differentiate between biometry and bio economics -----

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Name: _____

Section: _____

Subject: *Biology*

Worksheet No: 2

CHAPTER NO 1 TO CHAPTER NO 4

INSTRUCTIONS:

- READ THE TOPIC /PAGES MENTIONED THOROUGHLY
- READ THE SIDE BOX
- CONCENTRATE THE TERMINOLOGY GIVEN BOLD IN THE TEXT
- OBSERVE THE FIGURE/DIAGRAM RELATED TO THE TOPIC
- FOR EACH WORK SHEET TIME LIMIT IS 40 MINUTE

BIOLOGYB-IX Work Sheet-1 (chapter # 1 page#2, 3)

Instructions: read the page # 2 and 3 and then answer the following.

Multiple choice questions:

- i) -----study of form and structure of living organism
a) Anatomy b) physiology c) morphology d) histology
- ii) -----study structure and function of cell and cell organelles.
a) Anatomy b) physiology c) cell biology d) histology
- iii) Study of interaction between organism and their environment is called-----
a) socio- biology b) taxonomy c) parasitology d) environmental biology
- iv) study of fossils is called -----
a) paleontology b) physiology c) histology d) cytology
- v) study of insect is called -----
a) immunology b) parasitology c) entomology d) anatomy

Short answers:

- i) Name and define three major division of Biology-----

- ii) What are the major biological issues of today? -----

- iii) Differentiate cell biology and histology-----

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- iv) Define genetics and inheritance-----

- v) Differentiate parasite and parasitology-----

- vi) Name and define branch of biology you like the most? -----

BIOLOGYB-IX Work Sheet-2 (chapter # 1 page#4-5)

Instructions: read the page # 4 and 5 and then answer the following.

Multiple choice questions:

- i) Study of biological processes using mathematical technique is called-----
b) Biometry b) bio economics c) biophysics d) a&b
- ii) Similarities between working principles of lever and limbs of human is studied in-----
b) Biometry b) bio economics c) biophysics d) a&b
- iii) Calculation of cost value and profit value of animal and plants study in-----
b) Biometry b) bio economics c) biophysics d) a&b
- iv) Liver transplantation is the study-----
c) Medicine b) surgery c) physiology d) anatomy
- v) Profession which deals with the art of gardening-----
a) Farming b) horticulture c) physiology d) agriculture

Short answers:

- i) Define explain term biochemistry-----

- ii) How biotechnology and bioeconomics help to the mankind? -----

- iii) Differentiate agriculture and horticulture-----

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iv) Define biogeography -----

v) Differentiate farming and forestry-----

vi) Name and define career in biology you like the most?-----

BIOLOGYB-IX Work Sheet-3 (chapter # 1 page#6-7)

Instructions: read the page # 6 and 7 and then answer the following.

Multiple choice questions:

- i) -----book written by bu ali sina
a) Al haywan b) al wahoosh c) al qanun fil tib d)khalq al insan
- ii) Number of natural elements-----
a) 62 b) 82 c) 72 d) 92
- iii) -----is not the major bio element
a) Potassium b) phosphorus c) hydrogen d) oxygen
- iv) -----is not micro molecule.
a) Starch b) water c) glucose d) a&b
- v) -----is not macro molecule.
b) Starch b) protein c) lipids d) glucose

Short answers:

i)Give translation of a verse on the creation of human being-----

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ii) Describe the contribution of Abdul Malik asmai-----

iii) name and define bio elements -----

iv) Differentiate : macromolecule & micro molecule -----

v) who was bu ali sina?-----

BIOLOGYB-IX Work Sheet-4(chapter # 1 page#8-10)

Instructions: read the page # 8-10 and then answer the following.

Multiple choice questions:

i) There are -----level of organization.

- a) 5 b) 7 c) 9 d) 11

ii)) Human population in Pakistan in 2010 comprises of -----million.

- a) 153.5 b) 163.5 c) 173.5 d) 183.5

iii) Protein synthesis done by -----

- a) Mitochondria b) nucleus c) ribosome d) Golgi bodies

iv) Epithelial tissue of -----secrete gastric juice for the digestion of -----

- a) Intestine, lipids b) intestine, protein c) stomach, lipids d) stomach, protein.

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v) More than one type of tissue having related function organized to make ----

- a) Muscular tissue b) organ c) individual d) all

Short answers:

i) give the function of mitochondria and ribosome -----

ii) enlist at least two examples of plant and animal tissue-----

iii) differentiate between organ and organ level system -----

iv) Differentiate between atomic and molecular level -----

v) Define community-----

BIOLOGYB-IX Work Sheet-5(chapter # 1 page#10-13)

Instructions: read the page #10-13 and then answer the following.

Multiple choice questions:

- i) Scientific name of frog -----
a) Rana Tigrina b) rana tigrina c) rana Tigrina d) Rana tigrina

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- ii) Correct Scientific name of mustard plant -----
a) Brassica compastris b) brassica campestris c) Brassica campestris d) Brassica
Campestris
- iii) mustard plant produces seed at the end of -----
a) Winter b) summer c) autumn d) spring
- iv) -----do not have any type of division of labor.
a) Brassica b) frog c) Volvox d) none of these
- v) Frog belong to-----level of cellular organization.
a) Unicellular b) multicellular c) colonial d)

Short answers:

- i) Name five major groups of organism-----

- ii) Describe unicellular organization-----

- iii) How colonial organization differ from multicellular organization-----

- iv) Differentiate between vegetative and reproductive parts of brassica campestris-----

- v) Place the following specimen according to cellular organization and give one difference
between them



- vi) Describe the following specimen shown in figure below under following heading:

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a) Level of cellular organization-----

b) Scientific name-----

--

b) Organ and system level-----

c) Habitat-----

d) Reproduction-----



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BIOLOGYB-IX Work Sheet-1 (chapter # 2 page#20-22)

Instructions: read the page # 20-22 and then answer the following.

Multiple choice questions:

- i) Logical consequence drawn from hypothesis.....
a) Observation b) deduction c) experimentation d) result
- ii) -----not relevant to quantitative observation.
a) Variable b) more accurate c) measureable d) a&b
- iii) 1 litre of ethanol equal to-----gram.
a) 798 b) 789 c) 787 d) 879
- iv) Reasoning is used in -----
- v) Observation b) deduction c) experimentation d) hypothesis

Short answers:

- i) Why man has always been a biologist? -----

- ii) Define biological problem and enlist steps for solving biological problem. -----

- iii) Differentiate quantitative and qualitative observations-----

- iv) Name the five senses used for recognizing biological problem or observation. -----

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BIOLOGYB-IX Work Sheet-2 (chapter # 2 page#22-23)

Instructions: read the page # 22-23 and then answer the following.

Multiple choice questions:

- i) Most basic step of biological method is-----
a) Recognition b) deduction c) experimentation d) b&c
- ii) First step of biological method -----
a) Recognition b) deduction c) experimentation d) observation
- iii) -----allows other people to apply the knowledge to solve other problems.
a) hypothesis b) reporting c) experimentation d) observation
- iv) A great deal of careful thinking is necessary for -----
a) hypothesis b) deduction c) experimentation d) b&c
- v) -----involves the use of "if-then "logic.
a) hypothesis b) deduction c) experimentation d) reporting

Short answers:

- i) Explain the importance of reporting results-----

- ii) Differentiate experimental and control group-----

- iii) What is meant by summarization of results? -----

- iv) Define experimental group and describe how it differ from control group? -----

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BIOLOGYB-IX Work Sheet-3(chapter # 2 (Malaria))

Instructions: read thoroughly type example MALARIA and then answer the following.

Multiple choice questions:

- i) The word malaria come from -----language.
a) Greek b) Persian c) Latin d) English
- ii) Plasmodium was discovered in -----
a) 1878 b) 1876 c) 1874 d) 1872
- iii) Plasmodium is the cause of malaria , is -----
a) Hypothesis b) deduction c) result d) observation
- iv) Which organism can get plasmodium by biting a malarial patient-----
a) Female anopheles b) culex c) a & b d) none of these
- v) -----transmit dengue fever
a) Culex b) anopheles c) aedes d) a & c
- vi) -----spread malaria in birds.
a) Culex b) anopheles c) aedes d) a & c
- vii) Italian biologist allowed infected anopheles mosquito to bite healthy man in-----
a) 1892 b) 1894 c) 1896 d) 1898

Short answers:

- i) Enlist four observation made about malaria -----

- ii) How plasmodium was discovered?-----

- iii) How plasmodium enter into human body? -----

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iv) Give hypothesis and deduction about malaria made on the basis of A.F.A.King.

v) Outline Ronald Ross experiment.

vi)

BIOLOGYB-IX Work Sheet-4(chapter # 2 page #26-28)

Instructions: read page #26-28 and then answer the following.

Multiple choice questions:

- i) Quality of experiment is ensured by-----
a) Data organization b) data analysis c) data d) hypothesis
- ii) Summarization of data through the calculation of mean value-----
a) Ratio b) proportion c) statistics d) data analysis
- iii) Ratio is expressed by putting a -----mark between the two ratios.
a) Colon b) division c) equality d) a&b
- iv) -----keeps on suggesting new hypothesis and so testing goes on .
a) Law b) theory c) productive theory d) principle
- v) -----refer to the computational & statistical techniques for the analysis of -----
a) Data analysis b) data organization c) statistics d) bioinformatics

Short answers:

i) Define : a) data -----

b) Ratio -----

c) Proportion-----

ii) Enlist the ways of data organization-----

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- iii) How you describe that mathematics is an integral part of scientific processes. -----

- iv) Define bioinformatics and also describe how statistics help in biological method for solving a biological problem-----

- v) Define : a) incubation period-----

b) Deduction-----

c) Scientific law-----

d) Theory-----

BIOLOGYB-IX Work Sheet-1 (chapter # 3 page#31- 35)

Instructions: read the page # 31-35 and then answer the following.

Multiple choice questions:

- i) Method by which biologist divide organism into groups and sub groups is called-----
a) Classification b) biological classification c) taxonomy d) systematics
- ii) Types of animal known to biologist are -----million.
a) 0.5 b) 1.5 c) 2.0 d) 2.5
- iii) Types of plants known to biologist are -----million.
a) 0.5 b) 1.5 c) 2.0 d) 2.5
- iv) Biodiversity is richest in -----
a) Temperate region b) tropics c) polar region d) forests
- v) Species that are in same -----are more closely related than-----
a) Class—order b) family—genus c) order—class d) phylum—class

Short answers:

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i) Describe Biodiversity under following headings: a) definition-----

b) distribution-----

c) evolution-----

ii) what are the aims of classification?-----

ii) Define classification .describe basis of classification.-----

iii) Differentiate : systematics -----

-----&

Taxonomy-----

iv) Identify the specimen----- shown in figure below ,and describe how this animal is produced?-----

-----and also give its kingdom-----

&phylum -----



v) Give scientific name and classification of the following :

a) Human-----

b) Pea-----

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c) Define taxonomic hierarchy and enlist taxa of hierarchy -----

(Note: for answering the Mcqs we start the hierarchy from the smallest)

BIOLOGYB-IX Work Sheet-2 (chapter # 3 page#36- 38)

Instructions: read the page # 36-38 and then answer the following.

Multiple choice questions:

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- i) Aristotle 's book de Anima was translated by-----
a) Aristotle b) abu-usman umar Aljahiz c) ibn rushd d) john ray
- ii) Which rank not used by carolus Linnaeus in his classification system-----
a) Class b) order c) family d) genus
- iii) Robert Whittaker introduced five kingdom classification system in-----
a) 1866 b) 1937 c) 1967 d) 1979
- iv) Prokaryotic cell are only found in kingdom-----
a) Protocista b) monera c) fungi d) plantae
- v) -----introduced the taxa of "class "and "species"
a) John ray b) Augustus Rivinus c) Tournefort d) Andrea Caesalpino

Short answers:

- i) Describe contribution of carolus Linnaeus in developing biological classification system -----

- ii) Why fungi placed in separate kingdom?-----

- iii) Give the draw backs of two kingdom classification system -----

- iv) Describe the contribution of Ernst Hackel in history of biological classification system-----

- v) Give the basis of five kingdom classification system-----

- vi) How algae resemble to plant and how they differ from them(plant)-----

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BIOLOGYB-IX Work Sheet-3 (chapter # 3 page# 39--41)

Instructions: read the page # 39-41 and then answer the following.

Multiple choice questions:

- i) Scientific name of onion-----
a) Allium Cepa b) allium cepa c) allium Cepa d) *Allium cepa*
- ii) Viruses are assigned to kingdom-----
a) Protocista b) Monera c) Animalia d) none of these
- iii) In binomial nomenclature first letter of -----is not capitalized.
a) Family b) class c) species d) genus
- iv) More than-----people added to world population each day.
a) 26000 b) 16000 c) 260,000 d) 160,000
- v) In developing countries -----billion people rely on wood for heating and cooking.
a) 1 billion b) 2 billion c) 3 billion d) 4 billion
- vi) ----- are composed of only protein.
a) Viroids b) prion c) bacteria d) all
- vii) Known causes of species extinction because of hunting is-----%.
a) 17% b) 19% c) 21% d) 23%

Short answers:

- i) Why viruses are considered acellular ?-----

- ii) Differentiate prion and viroids-----

- iii) Describe binomial nomenclature under following headings: a) definition-----

b) Rules-----

c) Significance-----

- iv) What is meant by "conservation of Biodiversity"?-----

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- v) Define : a) extinct species-----

b) Endangered species-----

- vi) Give scientific name of : a) onion -----
-----b)star fish-----c)house crow-----

BIOLOGYB-IX Work Sheet-4 (chapter # 3 page# 41-44)

Instructions: read the page # 41-44 and then answer the following.

Multiple choice questions:

- i) Cloud formation is decreased by -----
a) Urbanization b) soil erosion c) deforestation d) a&b
- ii) More than -----people added to world population each minute.
a) 160 b) 180 c) 200 d) 220
- iii) Close canopy forests of KPK are shrinking at approximately -----per year.
a) 1% b) 2% c) 3% d) 4%
- iv) Largest chilghoza forest in the world is located at-----
a) Himalayan b) palas valley c) KPK d)Suleiman range
- v) Pakistan signed UN "CCD" project in-----
a) 1993 b)1995 c)1997 d)1991

Short answers:

- i) Define deforestation .also describe how deforestation affects the biodiversity?-----

- ii) Give three causes of deforestation-----

- iii) Give three effects of deforestation on biodiversity and human's life -----

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- iv) In figure below one of the effect of deforestation shown to you, describe how this effect our ecosystem?



BIOLOGYB-IX Work Sheet-5 (chapter # 3 page# 44-47)

Instructions: read the page # 44-47 and then answer the following.

Multiple choice questions

- i) Northern areas of Pakistan provide habitat to
a) Tiger b) lion c) snow leopard d) Asiatic cheetah
- ii) -----not found in northern areas of Pakistan.
a) Brown bear b) astore markhore c) Himalayan ibex d) hangul
- iii) Marcopolo sheep are mostly found in-----
a) Hazarangi national park b) khunjerab national park c) cholistan d) palas valley
- iv) National bird of Pakistan -----
a) Chakor b) pigeon c) Houbara bustard d) green parrot
- v) According to WWF-P ----- Indus Dolphin are left in the Indus River.
a) 500 b) 600 c) 400 d) 700

Short answers:

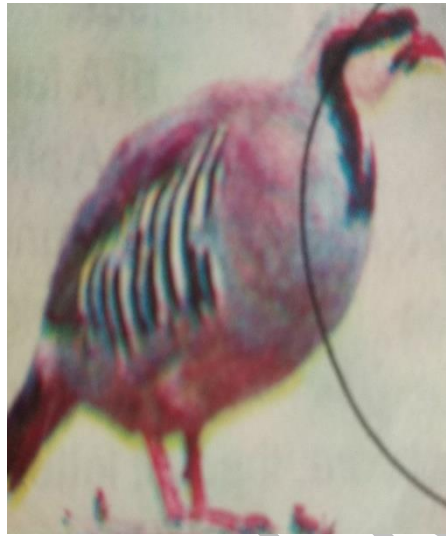
- i) What step are taken for the conservation of chiltan markhore.-----

- ii) Enlist the name of wildlife species present in northern areas of Pakistan-----

- iii) Identify/name the following animal and why these animal important to us?

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iv) Name the following animal shown and why they are endangered?



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c)

a) -----

B) -----

C) -----

Reasons for becoming susceptible or endangered-----

BIOLOGYB-IX Work Sheet-1 (chapter # 4 page# 52-56)

Instructions: read the page # 52-56 and then answer the following.

Multiple choice questions

- i) Zacharias Janssen developed first compound microscope in-----
a) 1595 b)1590 c) 1585 d) 1580
- ii) Resolution of human eye-----
a) 0.5 mm b)0.1mm c)0.05mm d)0.01mm
- iii) In 1831 nucleus was discovered by -----
a) Robert hook b) Robert Brown c) Robert Koch d) Robert Neil
- iv) Resolution of electron microscope-----
b) 0.2 mm b)0.2nm c)0.01mm d)0.01nm
- v) Internal cell structure can be studied by -----
a) LM b) EM c) SEM d)TEM

Short answers:

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- i) Differentiate: magnification and resolution: -----

- ii) Give three differences between TEM & SEM-----

- iii) Describe the contribution of different scientist in formulation of cell theory-----

- iv) What are the main principles/postulates of cell theory-----

- v) Define and describe sub cellular/acellular particles with example-----

- vi) Identify the type of microscope shown in figure a & b, below, and give three differences between them.

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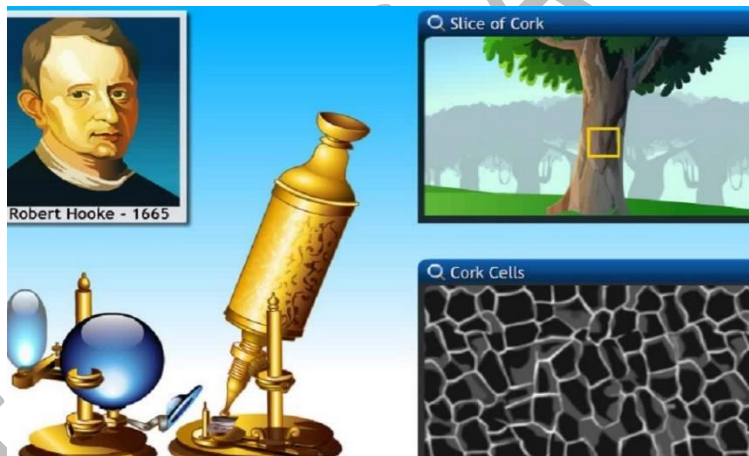


a)



b)

- vii) Figure below shows the material and method of Robert hook famous work about cell discovery, you suppose to write down his work in your words.



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BIOLOGYB-IX Work Sheet-2 (chapter # 4 page#57-62)

Instructions: read the page # 57-62 and then answer the following.

Multiple choice questions

- i) Which one of the following is not an organelle?
a) Centriole b) vacuole c) cell membrane d) ribosome
- ii) Prokaryotic cell wall is composed of -----
a) Chitin b) lignin c) cellulose d) peptidoglycan
- iii) Biochemical reaction take place in-----
a) Cell b) cell membrane c) nucleus d) cytoplasm
- iv) -----is the energy production house of the cell.
a) Ribosome b) nucleus c) mitochondria d) nucleolus
- v) Ribosomal RNA form in -----
a) Nucleus b) ribosomes c) mitochondria d) nucleolus

Short answers:

- i) Name cell structure and give their function:-----

- ii) Differentiate between :a)primary cell wall & secondary cell wall-----

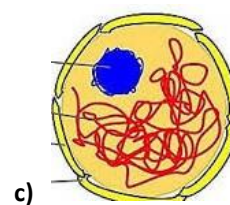
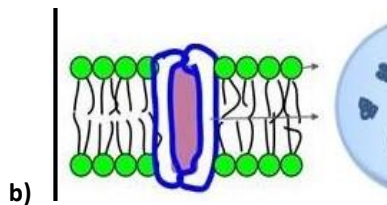
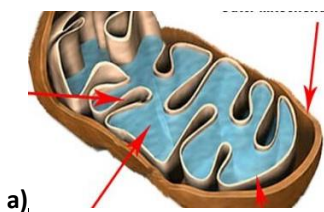
- iii) Define :a) cell membrane-----

b) Plasma membrane -----

c) Plasmodesmata-----

- iv) Give the function of cytoplasm-----

- v) Name and give function of the following structure and organelles:



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BIOLOGYB-IX Work Sheet-3 (chapter # 4 page#62-65)

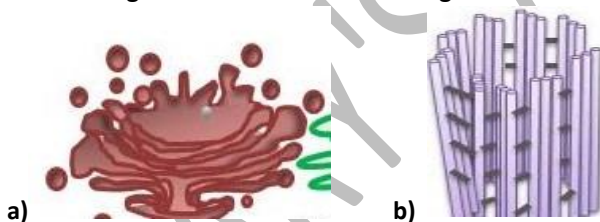
Instructions: read the page # 62-65 and then answer the following.

Multiple choice questions:

- i) -----are colorless and store starch, protein and lipids.
a) Chloroplast b) chromoplast c) leucoplast d) a&b
- ii) -----detoxify the harmful chemicals.
a) SER b) RER c) lysosome d) a&b
- iii) -----made of triplet of nine microtubule.
a) Cilia b) microfilament c) centriole d)a&b
- iv) Membrane of the vacuole is called-----
a) Unit membrane b) plasma membrane c) tonoplast d) a&c
- v) Camillo Golgi discovered set of flattened sacs called -----
a) Cristae b) cisternae c) matrix d) a&b

Short answers:

- i) Name and give function of the following:



- ii) Write a note on vacuole-----

- iii) Differentiate : SER & RER: -----

- iv) Describe formation and function of lysosome. -----

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BIOLOGYB-IX Work Sheet-4 (chapter # 4 page#66-68)

Instructions: read the page # 66-68 and then answer the following.

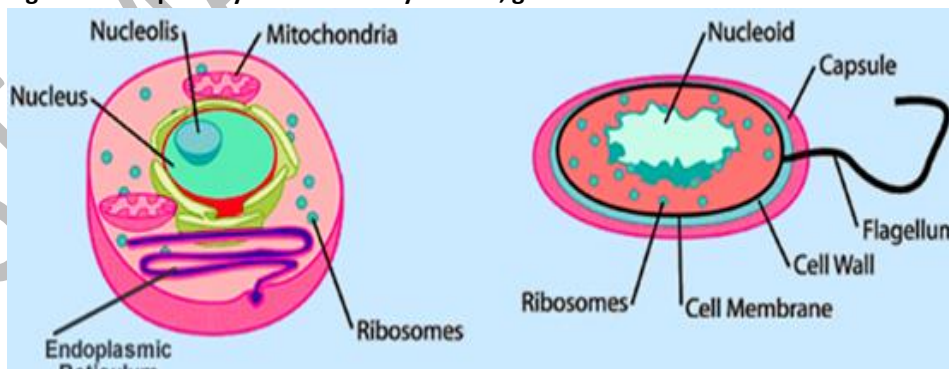
Multiple choice questions:

- i) The smallest cells are bacteria called -----
a) Mycoplasma b) phycoplasmata c) sarcoplasmata d) a&b
- ii) Human body made up of about -----type of cells.
a) 100 b) 1000 c) 200 d) 2000
- iii) Eukaryotic cell on average -----time larger than prokaryotic cell
a) Five times b) 10 times c) 15 times d) 20 times
- iv) Human RBCs are only-----micrometer in diameter.
a) 2 b) 4 c) 6 d) 8
- v) Need of nutrient and rate of waste are directly proportional to-----
a) Cell size b) cell volume c) cell membrane thickness d) all

Short answers:

- i) How the cell size and surface area to volume ratio affect the cell's activity.-----

- ii) Figure shows prokaryotic and eukaryotic cell, give three differences between them:



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- iii) Describe "cell as open system". -----

- iv) Describe relationship between cell function and structure with examples-----

BIOLOGYB-IX Work Sheet-5 (chapter # 4 page#69-73)

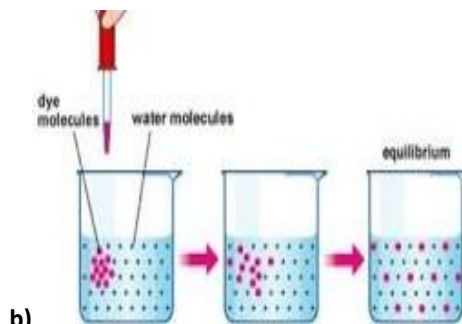
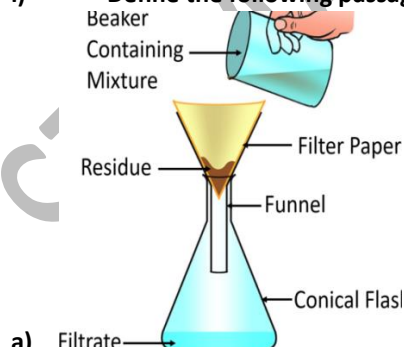
Instructions: read the page # 69-73 and then answer the following.

Multiple choice questions:

- i) The movement against concentration gradient requires energy in form of-----
a) ATP b) ADP c) AMP d)all
- ii) The solution that has relatively high /more solute-----
a) Isotonic b) hypotonic c) hypertonic d) a &b
- iii) The solution that has relatively high /more solute-----
a) Isotonic b) hypotonic c) hypertonic d) a &b
- iv) Shrinkage of cytoplasm is -----
a) Plasmolysis b) deplasmolysis c) a&b d) phagocytosis
- v) Process of ingestion of bulky material is called -----
a) Exocytosis b) endocytosis c) phagocytosis d) pinocytosis

Short answers:

- i) Define the following passage of molecules movement into and out of cells:



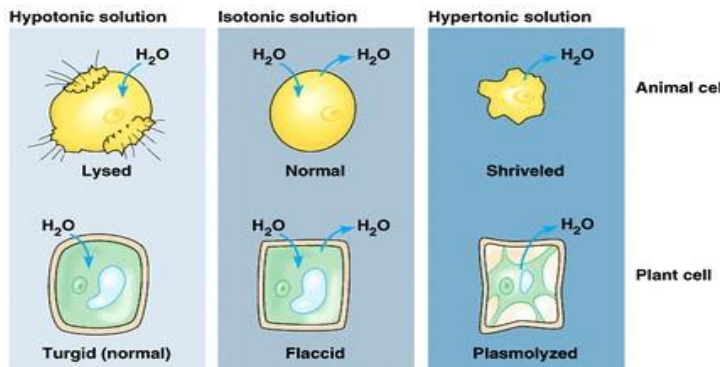
- a) -----

- b)-----

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ii) describe the effect of tonicity on animal and plant cell



ii)

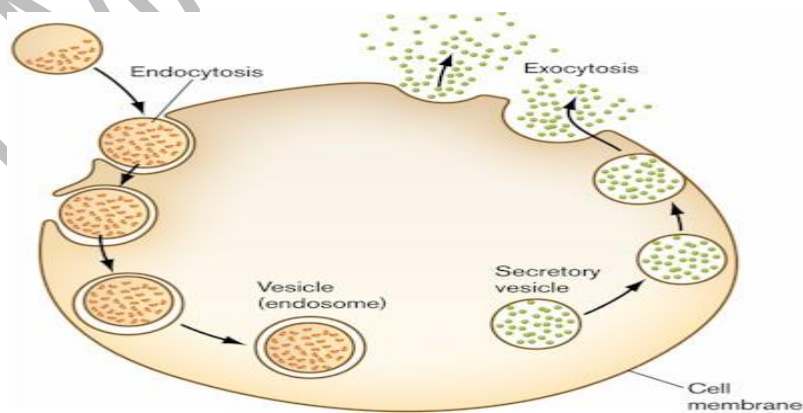
Define : active transport

Turgor pressure

Endocytosis

iii)

Explain the process of endocytosis and exocytosis ,with the help of figure shown below:



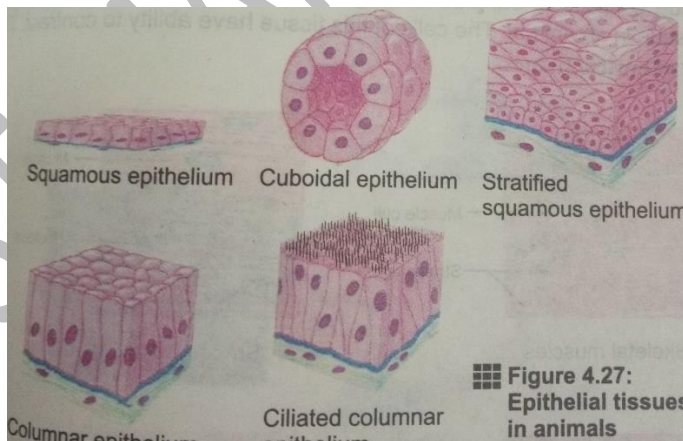
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BIOLOGYB-IX Work Sheet-5 (chapter # 4 page#74-82)

Instructions: read the page # 74-82 and then answer the following.

- i) Give function and location of the following epithelial tissue

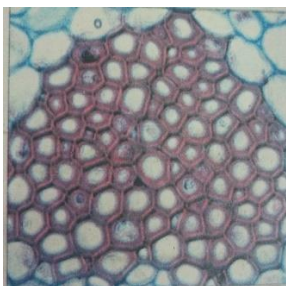


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ii) Identify the following type of plant and animal tissue ,also give their function:

a)



b)



c)



a)

b)

c)