



ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

COMPREHENSIVE EXAMINATION 2023-24

ENGLISH (COMPULSORY) S.S.C. PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi



Time: 3 hours

Marks: 100

General Instructions:

Section 'A': It consists of 20 Multiple choice questions (MCQs) and all of them are to be answered.

Section 'B': It consists of 04 short answer questions and all of them are to be answered.

Section 'C': It comprises 04 Descriptive answer questions and all of them are to be answered.

SECTION 'A' (MULTIPLE CHOICE QUESTIONS)

Time: 30 Minutes

(20 Marks)

Note:

- (i) Attempt all the questions of this Section.
- (ii) Do not copy down the part questions. Write only the answer against the proper number of the question and its part according to the question paper.
- (iii) Each question carries 1 mark.

Q 1: Choose an appropriate answer for the given options:

- i. The poem "Little Things" was written by:
*Julia Carney *David Bates *Eliza Cook *Anonymous
- ii. We should treat our _____ as we treat ourselves.
*friends *relatives *neighbours *servants
- iii. The headmaster did menial work, which made Akhtar feel _____.
*excited *sad *ashamed *worried
- iv. In the poem "King Bruce and the Spider" the word "monarch" means
*emperor *king *leader *faithful
- v. The horse _____ when the beggar touched it.
*winced *snorted *danced *cried
- vi. Cross means:
*happy *angry *glad *none of these
- vii. Louis I. Newman was born in _____.
*1893 *1972 *1894 *1895
- viii. According to King Bruce, the spider was a fool because it had made _____ attempts but failed.
*ten *five *eight *nine
- ix. 'Success begins with a fellow's _____, It's all in the state of mind.'
*determination *will *resolution *wish
- x. _____ is the topmost part of a religious building.
*minaret *tower *steeple *spire
- xi. _____ repaired his own shoes, mended and washed his clothes, and swept his room.
*Hazrat Ali (R.A) *Hazrat Fatima (R.A) *Muhammad (S.A.W) *Emperor Aurangzeb
- xii. Little deeds of _____, little words of love
*sympathy *affection *virtue *kindness
- xiii. The rich man said that he gave the beggar a lift because the beggar was _____ and the rich man felt sorry for him.
*poor *penniless *wise *lame
- xiv. Bravo! Bravo! The king cried out All honour to those who _____.
*try *work *dare *fight
- xv. Have pity on me and save me from the _____ and injustice of this rich man.
*dishonesty *disloyalty *cruelty *disobedience
- xvi. Both riders and _____ riders should wear helmets.
*companion *passenger *pillion *traveller
- xvii. Every time you get into your car you make a:
*choice *decision *promise *mistake
- xviii. Brain injury in a motorbike accident can lead to permanent _____.
*forgetfulness *disability *problems *ill health
- xix. The Gorakh Hills are the highest place in _____.
*Sindh *Balochistan *Punjab *Islamabad
- xx. At night they could hear the sound of _____.
*dogs barking *wolves howling *water flowing *many animals



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According to the syllabus of the Board of Secondary Education, Karachi



Total Time: 2 ½ hours

Total Marks: 80

SECTION 'B'

(SHORT-ANSWERS QUESTIONS)

(40 Marks)

Q2. Answer any 05 of the following: (two or three sentences each)

(10)

- What did the King Bruce think that the spider would not be able to reach its home?
- What was the dispute between the rich man and the beggar?
- What was going on in Akhtar's school? In what way did he participate?
- How can a business be initiated on a virtual platform?
- Why should we speak gently to others?
- What was Mr. Karim's second strange experience?
- What happens when a car stops suddenly?

Q.3 Do as directed. (as instructed in the bracket)

(20)

i. (Use Preposition)

- The sun rises _____ the East.
- I am not fond _____ reading books.

ii. (Use Article)

- Ali has _____ amazing idea.
- What is _____ largest city in the world?

iii. (Change the Voice)

- I have completed my work.
- Lend me some money
- Who won the final match?

iv. (Change the Narration)

- The manager said to the peon, "Get out of my office."
- The mother said to her son, "Never tell a lie."
- He said to us."Alas! My cousin met an accident yesterday."

v. Formation of Sentences (change the following sentences as suggested in the bracket)

- I never come late. (change into Past Indefinite)
- Who will participate in this competition? (change into Past Continuous)
- Are you working on new project? (change into Future Perfect)
- He has completed his task. (change into Future Continuous)
- Ali hid my book yesterday. (change into Interrogative)
- They are coming right now, _____? (add Question Tag)
- how colourful that picture is (Punctuate and capitalize)

vi. Write correct form of the VERB given in bracket.

- We will get flying colours in exam if we (work) hard.
- If you heat up water, it (boil).

vii. Add SUFFIX

- To waste time is a _____ (use) activity.

Q.4 Indicate the part of speech, the underlined words belong to.

(05)

- Always speak the truth.
- Is this pen yours?
- Honesty is the best policy.
- Alas! I have failed in exam/
- Switch off the lights before you leave the room.

NORTH NAZIMABAD CAMPUS I	NORTH NAZIMABAD CAMPUS II	GULSHAN	NORTH KARACHI	BAHADURABAD	GULISTAN-E-JOHAR
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According to the syllabus of the Board of Secondary Education, Karachi



Q.5 Translate the following paragraph into Urdu/Sindhi. (05)

Urdu is a national language of Pakistan but English is an official language of Pakistan. In the present age, the importance of English language has increased. This language is important in a sense that books on a modern branches of knowledge are written in it. In our country, an English speaker is regarded as a scholar. To go abroad, English language learning is necessary. It is an international language.

Section "C"

(Marks: 40)

Descriptive Questions/Answers

Q.6 Read the given passage and fill in the blanks from the options provided in the box. (05)

Inherited	Social	Division	Cooperate	orderly
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Some ants are _____ insects. It means that they live in societies, _____ with one another and od only the work assign to them. They go out in search of food in an _____ manner, marching in lines and columns like soldiers. Different groups of ants have different jobs. They manage their affairs through _____ of labors. The social ants have not learnt this split of labor, they had _____ it.

Q.7 Write an essay of 120-150 words on ANY ONE of the following: (10)

- Role of Social Media on Youth
- Need of National Unity
- An Interesting Cricket Match

Q.8 Write a letter to your friend, inviting him/her to spend the summer vacation with you. (10)

OR

Write a letter to the Editor of the newspaper about the short supply of water in your locality.

Q.9 Read the passages given below and answers the questions that follow them: (15)

Do you know that some people don't do their reading assignments? It's shocking, but it's true. Some students don't even read short texts that they are assigned in class. There are many reasons for this. They may be distracted or bored. They may be unwilling to focus. They may be confident readers. Whatever the reason, it has to stop today. Here's why. Reading stimulates your mind. It is like a workout for your brain. When people get old, their muscles begin to deteriorate. They get weaker and their strength leaves them. Exercise can prevent this loss. The same thing happens to people's brains when they get older. Brain power and speed decline with age. Reading strengthens your brain and prevents these declines. You can benefit from reading in the near-term too. Reading provides knowledge. Knowledge is power. Therefore, reading can make you a more powerful person. You can learn to do new things by reading. Do you want to make video games? Do you want to design clothing? Reading can teach you all this and more. But you have to get good at reading, and the only way to get good at something is to practice.

Read everything that you can at school, regardless of whether you find it interesting. Reading expands your vocabulary. Even a "boring" text can teach you new words. Having a larger vocabulary will help you better express yourself. You will be able to speak, write, and think more intelligently. What's boring about that? Do not just discount a text because it is unfamiliar to you. Each time you read, you are exposed to new ideas and perspectives. Reading can change the way that you understand the world. It can give you a broader perspective on things. It can make you worldlier. You can learn how people live in faraway places. You can learn about cultures different from your own.

Reading is good for your state of mind. It has a calming effect. It can lower your stress levels and help you relax. You can escape from your troubles for a moment when you read, and it's a positive escape. So do yourself a favour: the next time you get a reading assignment, take as much as you can from it. Squeeze it for every drop of knowledge that it contains. Then move on to the next one.

Questions

- Why do the students not even read short text? (02)
- Why do we need a large vocabulary? (02)
- Give past participle and present participle forms of the verb "know ". (02)
- Find a word of the same meaning from above passage for each of the following words: (04)

☆commence	☆ plan	☆communicate	☆unknown
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- Write a Summary of the above passage. (05)

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مطالعہ پاکستان جماعت دہم (سائنس)

According to the syllabus of the Board of Secondary Education, Karachi

کل نشانات: ۷۵

کل وقت: ۳ گھنٹے

حصہ ”الف“ (کثیر الانتخابی سوالات)

(۱۵)

سوال نمبر ۱: دیے گئے ممکنہ جوابات میں سے ہر ایک کے لیے درست جواب کا انتخاب کیجیے:

اجزاء کا پی پر نقل نہ کریں۔ پرچہ کے مطابق صحیح نمبر ڈال کر ان کے مقابل صرف جواب لکھیے۔

i. حضرت شاہ ولی اللہ کا اصل نام ہے۔

(الف) قطب الدین (ب) شریعت اللہ (ج) شاہ عبدالرحیم (د) شاہ خلیل اللہ

ii. ۲۳ مارچ ۱۹۵۶ کو نافذ ہونے والے آئین کا نمبر ہے۔۔

(الف) پہلا (ب) دوسرا (ج) تیسرا (د) کوئی نہیں

iii. قرارداد پاکستان اس سن میں منظور ہوئی۔

(الف) ۱۹۳۰ (ب) ۱۹۳۹ (ج) ۱۹۵۰ (د) ۱۹۵۱

iv. چین پاکستان کے اس سمت میں واقع ہے۔

(الف) مشرق (ب) مغرب (ج) شمال (د) جنوب

v. دنیا کی سب سے بڑی نمک کی کان یہاں واقع ہے۔

(الف) کراچی (ب) چاغی (ج) مکر وال (د) کھیوڑہ

vi. نوں اور دسویں جماعت کو دی جانے والی تعلیم کہلائی جاتی ہے۔

(الف) پرائمری (ب) مڈل (ج) سیکنڈری (د) اعلیٰ تعلیم

vii. دنیا میں سب سے بڑا نہری نظام یہاں واقع ہے۔

(الف) بھارت (ب) پاکستان (ج) افغانستان (د) چین

viii. نظریہ پاکستان کی اساس ہے۔

(الف) انصاف (ب) اسلام (ج) اقدار (د) ان میں سے کوئی نہیں

ix. قائد اعظم محمد علی جناح نے مسلم لیگ میں شمولیت اختیار کی۔

(الف) ۱۹۱۳ (ب) ۱۹۳۶ (ج) ۱۹۰۶ (د) ۱۹۲۰

x. قراقرم سلسلہ کی لمبائی تقریباً ہے۔

(الف) ۵۰۰۰ میٹر (ب) ۱۰۰۰ میٹر (ج) ۸۰۰۰ میٹر (د) ۱۰۰۰۰ میٹر

xi. پاکستان کا نام تجویز کیا۔

(الف) مولانا شوکت علی (ب) چوہدری رحمت علی (ج) چوہدری نثار علی (د) چوہدری برکت علی

xii. علامہ اقبال نے اپنا صدارتی خطبہ اس سن میں پیش کیا۔

(الف) ۱۹۳۰ (ب) ۱۹۳۱ (ج) ۱۹۳۰ (د) ۱۹۳۱

xiii. پاکستان کا کل رقبہ مربع کلومیٹر میں یہ ہے۔

(الف) ۷۹۶۰۹۶ (ب) ۷۹۶۱۹۶ (ج) ۱۸۷۹۰۶ (د) ۷۹۶۳۹۶

xiv. یہ پاکستان کی نہایت اہمیت کی حامل بندرگاہ ہے۔

(الف) گوادر (ب) پسنی (ج) کراچی (د) پورٹ قاسم

xv. پاکستان کی عوام زیادہ تر اس شعبے سے وابستہ ہے۔

(الف) زراعت (ب) تجارت (ج) معلمی (د) یہ تمام

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مطالعہ پاکستان جماعت دہم (سائنس)

According to the syllabus of the Board of Secondary Education, Karachi

(نشانات: ۳۰)

حصہ 'ب' (مختصر جواب کے سوالات)

- نوٹ: اس حصہ سے کل (۶) سوالوں کے جوابات مطلوب ہیں۔ تمام سوالات کے نشانات مساوی ہیں۔
- سوال نمبر ۲: نظریہ پاکستان سے متعلق قائد اعظم کے تین ارشادات تحریر کیجئے۔ یا قومی کردار کی تعمیر میں نظریہ کا کیا مقام ہونا چاہیے؟ تین نکات لکھیے۔
- سوال نمبر ۳: اسلامی نظریہ کے تین بنیادی ماخذ تحریر کیجئے۔
- سوال نمبر ۴: قائد اعظم کے چودہ نکات میں سے پانچ نکات تحریر کیئے۔
- سوال نمبر ۵: ”دو قومی نظریہ“ سے کیا مراد ہے؟ چار جملے لکھیے۔
- سوال نمبر ۶: آل انڈیا مسلم لیگ کے کوئی چار اغراض و مقاصد لکھیے۔
- سوال نمبر ۷: فراضی تحریک کے تین مقاصد تحریر کیجئے۔
- سوال نمبر ۸: تین جون منصوبے سے کیا مراد ہے؟ چند جملے لکھیے۔
- سوال نمبر ۹: قرارداد پاکستان کے بارے میں تین جملے لکھیے۔
- سوال نمبر ۱۰: تحریک علیگڑھ کے خاص مقاصد تحریر کیجئے۔
- سوال نمبر ۱۱: درختوں کے پانچ فوائد تحریر کیجئے۔
- سوال نمبر ۱۲: ماحولیاتی آلودگی کے چار وجوہات تحریر کیجئے۔ - یا - ایک شہری کے حقوق و فرائض تحریر کیجئے (کوئی چار)

(نشانات: ۳۰)

حصہ 'ج' (تفصیلی جواب کے سوالات)

- نوٹ: اس حصہ سے کوئی تین (۳) سوالات کے جوابات مطلوب ہیں۔ تمام سوالات کے نشانات مساوی ہیں۔
- سوال نمبر ۱۳: پاکستان کے قومی مقاصد حاصل کرنے کے لئے مسلسل تعمیری کاوشیں ضروری ہیں۔ بیان کیجئے۔
- سوال نمبر ۱۴: بحیثیت قومی زبان اردو کی اہمیت بیان کیجئے۔
- سوال نمبر ۱۵: فلاحی ریاست سے کیا مراد ہے؟ ایک اسلامی ریاست کا تصور پیش کیجئے۔
- سوال نمبر ۱۶: پاکستان کے محل وقوع کی اہمیت بیان کیجئے۔ - یا - بڑھتی ہوئی آبادی کی وجوہات تحریر کیجئے اور اس کے تعلیم پر اثرات تحریر کیجئے۔
- سوال نمبر ۱۷: مندرجہ ذیل عنوانات میں سے کسی ایک پر تفصیلی نوٹ لکھیے۔
- ٹیکنالوجی اور دو کیشنل تعلیم
 - انفارمیشن ٹیکنالوجی
 - پاکستان کے اہم معدنی وسائل
 - پاکستان کی زبانیں
 - ای۔ کامرس

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COMPREHENSIVE EXAMINATION 2023-2024

PAKISTAN STUDIES PAPER-SSC PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi



Time: 3 hours

Max. Marks: 75

General Instructions:

Section 'A': It consist of 15 Multiple Choice Questions (MCQs) and all of them to be answered.

Section 'B': It consists of 11 Short –Answer Questions from which 06 are to be answered.

Section 'C': It comprises of 05 Descriptive –Answer Questions from which 03 are to be answered.

SECTION 'A'

(MULTIPLE CHOICE QUESTIONS)

Q 1: Choose the correct answer for each from the given options:

- i. The real name of Hazrat Shah Waliullah was
(a) Qutubuddin (b) Shariatullah (c) Shah Abdul Rahim (d) Shah Khalil Ullah
- ii. The constitution of pakistan promulgated on 23rd March 1956 was:
(a) First (b) second (c) Third (d) None
- iii. The Resolution of Pakistan was passed in the year:
(a) 1940 (b) 1949 (c) 1950 (d) 1951
- iv. China is Situated in this side of Pakistan:
(a) East (b) West (c) North (d) South
- v. The biggest Salt mine in the world is located at:
(a) Karachi (b) chaghi (c) Makarwal (d) khewra
- vi. The education provided in class IX and X is called:
(a) Primary (b) Middle (c) Secondary (d) Higher Education
- vii. It has the largest system of canal irrigation in the world:
(a) India (b) Pakistan (c) Afghanistan (d) China
- viii. The ideology of Pakistan is based upon:
(a) Justice (b) Islam (c) Values (d) None of these
- ix. The Quaid-e Azam joined the All India Muslim League in A.D:
(a) 1913 (b) 1936 (c) 1906 (d) 1920
- x. The average length of karakoram range is:
(a) 5000 meters (b) 1000 meters (c) 8000 meters (d) 40,000 meters
- xi. The name of Pakistan was proposed by:
(a) Moulana Shoukat Ali (b) Chaudhary Rehmat Ali
(c) chaudhary Nisar Ali (d) chaudhary Barkat Ali
- xii. Allama Muhammad Iqbal delivered his presidential address at Allahabad in the year:
(a) 1931 (b) 1930 (c) 1940 (d) 1941
- xiii. The total area of pakistan in Square km is
(a) 796096 (b) 796196 (c) 187906 (d) 796396
- xiv. The most important sea-port of Pakistan is:
(a) Gawadar (b) Pasni (c) Karachi (d) Port Qasim
- xv. In Pakistan, the majority of people is associated with:
(a) Agriculture (b) Trade (c) Teaching (d) All of these

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PAKISTAN STUDIES PAPER-SSC PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi



Time: 2 ½ hours

Max. Marks: 60

SECTION 'B' (SHORT-ANSWER QUESTIONS)

(Marks: 30)

Note: Answer any six questions from this section. All questions carry equal marks.

Q.2: Write any three different statements of Quaid-e-Azam on the ideology of Pakistan.

OR What is the role of ideology in building National character. Write three points.

Q.3: Write down any three basic sources of Islamic ideology.

Q.4: Write any five points from fourteen points of Quaid-e-Azam.

Q.5: What is meant by Two Nation Theory? Write in four sentences.

Q.6: Write any four objectives of the establishment of All India Muslim League.

Q.7: Write three objectives of Faraizi Movement-

Q.8: What do you mean by 3rd June plan? Write in few sentences.

Q.9: Write three sentences on Pakistan Resolution.

Q.10: Write three main Objectives of Aligarh movement.

Q.11: Write five advantages of forests.

Q.12: Mention any four causes of Environmental Pollution in Pakistan.

OR Write down any four rights and duties of a Citizen.

SECTION 'C' (DETAILED-ANSWER QUESTIONS)

(Marks: 30)

Note: Attempt any three questions from this section. All questions carry equal marks.

Q.13: Describe in detail the sustained constructive efforts required to achieve the national Goals of Pakistan.

Q.14: Describe the importance of Urdu as National Language.

Q.15: What is meant by welfare State? What is the Concept of an Islamic welfare State?

Q.16: Explain the importance of Pakistan's Geographical location in South-Asia.

OR What are the causes of growth of Population in Pakistan? Describe the effects of growing population in education.

Q.17: Write down a detailed note on any one.

- Technical and vocational education
- Information Technology.
- Main Minerals of Pakistan.
- Languages of Pakistan.
- E-commerce

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حصو ”الف“ (گھڻ چونڊائڻا سوال)

(۱۵)

سوال ۱: هيٺ ڏنل هر هڪ سوال لاءِ صحيح جواب چونڊيو.

- i. شاه سائين جي ڪلام کي _ چئبو آهي.
☆ شاه جو ڪتاب ☆ شاعري رسالو ☆ ڪلام ☆ شاه جو رسالو
- ii. خط لکڻ جي شروعات _ سان ڪئي ويندي آهي.
☆ دعا ☆ بسم الله ☆ سلام ☆ ڪلام
- iii. ايران ۾ ان وقت _ مذهب جو زور هو.
☆ مٽي ☆ باه ☆ پاڻي ☆ ذرتشت
- iv. اجرڪ جا قسم _ کان مٿي آهن.
☆ ڏهن ☆ يارهن ☆ ٻارهن ☆ تيرهن
- v. ڪينجهر هڪ پراڻي تاريخي _ آهي.
☆ مسجد ☆ ڍنڍ ☆ محلات ☆ درياءَ
- vi. شاه لطيف _ ع ۾ ڄائو.
☆ ۱۶۶۰ ☆ ۱۶۹۰ ☆ ۱۶۹۱ ☆ ۱۶۹۲
- vii. حڪيم فتح محمد سوهائي _ ع ۾ ڄائو.
☆ ۱۸۸۰ ☆ ۱۸۸۱ ☆ ۱۸۸۲ ☆ ۱۸۸۳
- viii. سليمر ڳاڙهويءَ جو اصل نالو _ هو.
☆ الله داد ☆ الله ورايو ☆ الله بخش ☆ الله ڏنو
- ix. عبدالڪريم گدائي _ ع ۾ ڄائو.
☆ ۱۹۰۱ ☆ ۱۹۰۲ ☆ ۱۹۰۴ ☆ ۱۹۰۴
- x. ليڪراج ڪشن چند جي مضمون جو مجموعو _ هو.
☆ ادبي آئينو ☆ ادبي ڪتاب ☆ ادبي شاعري ☆ ڪو به نه
- xi. جيمس برنس _ نومبر تي حيدرآباد پهتو.
☆ ۲۱ ☆ ۲۲ ☆ ۲۳ ☆ ۲۴
- xii. برنس مير مراد علي خان جي علاج لاءِ سن _ حيدرآباد پهتو.
☆ ۱۸۲۷ ☆ ۱۸۲۸ ☆ ۱۸۲۹ ☆ ۱۸۲۵
- xiii. سڀني ميرن جي پٺيان _ هئا.
☆ خدمتگار ☆ صوبيدار ☆ اسير ☆ نواب
- xiv. سومرن کان پوءِ _ جو دور شروع ٿيو.
☆ ارغون ☆ ترخان ☆ مغلن ☆ سومرن
- xv. نثر نويس آڏو هڪ _ هوندو هو.
☆ مطلب ☆ مقصد ☆ لالچ ☆ فائدو

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حصو ”ب“ (مختصر سوال جا جواب) کل مارکون: ۳۰

(۱۰)

سوال ۲: کن به پنجن سوالن جا جواب لکو .

- i. کينجهر لڳڻ اصطلاح جي معني ڪهڙي آهي؟
- ii. اسلام قبول ڪرڻ کان پوءِ حضرت سلمان ڪهڙيون خدمتون سر انجام ڏنا؟
- iii. ميرن جي پوشاڪ ڪهڙي قسم جي هئي؟
- iv. سليم ۽ ارشد ڌڙيلن جو خاتمو ڪئين آندو؟
- v. شاعر هاريءَ لاءِ ڪهڙي دعا تو گهري؟
- vi. اجرڪ سنڌ جي ڪهڙن شهرن ۾ ٺهي ٿي؟
- vii. بين الاقوامي عدالت جي ججن جي چونڊ ڪهڙي ريت ٿيندي آهي؟
- viii. واڍي مائي کي ڪهڙو شرط ٻڌايو؟
- ix. مائي خيرِي ڪهڙا ڪهڙا خير جا ڪم ڪيا؟

(۰۴)

سوال ۳: هيٺ ڏنل لفظن مان ڪن به چئن جا جملا ٺاهيو .

☆ پسارا ☆ هاڪ ☆ ويڙه ☆ مستحق ☆ طالب علم ☆ نقش قدم ☆ جٽاءُ ☆ معذور

(۰۴)

سوال ۴: (الف) هيٺ ڏنل لفظن مان ڪن به چئن جا ضد لکو .

☆ رهبر ☆ خادم ☆ پيراندي ☆ رات ☆ سخي ☆ ڪليل ☆ خوشي ☆ شهرن

(۰۳)

(ب) هيٺ ڏنل لفظن مان ڪن به ٽن جا واحد يا جمع لکو .

☆ دعائون ☆ پانڊار ☆ اسڪول ☆ هٿ ☆ قلم ☆ بڪريون ☆ پوئلڙو ☆ پاڏو

(۰۳)

(ج) هيٺ ڏنل لفظن مان ڪن به ٽن جا مذڪر يا مؤنث لکو

☆ عورت ☆ استاد ☆ ڳئون ☆ چاچو ☆ وچ ☆ گهوڙي ☆ ڍڳي ☆ ڪبوتري

(۰۴)

(د) هيٺين مان ڪن به ٻن جي تعريف مثالن سان لکو

☆ ضمير ☆ حرف ندا ☆ ظرف ☆ حرف جر

(۰۲)

سوال ۵: هيٺين مان ڪن به ٻن اصطلاحن جي سنڌي ۾ معنيٰ لکو

☆ گوڙ ڪڍي وڃڻ ☆ کينجهر لڳڻ ☆ لذت چڏڻ ☆ نقش قدم تي هلڻ

☆ سوالِي نه خالي موتائڻ ☆ هڙاڻ ڏيڻ

يا

هيٺ ڏنل پٿرگراف پڙهي آخر ۾ ڏنل سوالن جا جواب لکو

اها ڪوئي اهڙي هئي. جو ان ۾ رات جو ڏاڍو سيءُ پوندو هو. سيءُ کان بچڻ لاءِ ڪوئيءَ ۾ ڪو به بندوبست ڪو نه هو. اڃا ٿوري دير مس ٿي ته چوڪري کي اچي سيءُ ورايو. چوڪري سيءُ کان بچڻ لاءِ دادِي ڪوشش ڪئي. پر سيءُ گهٽ نه ٿيو. ڪوئيءَ جي وچ تي هڪ وڏو تڙ پيو هو.

i. ڪوئي ڪهڙي هئي؟

ii. ڪوئيءَ ۾ رات جو ڇا پوندو هو؟

iii. چوڪري کي رات جو ڪنهن ورايو؟

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ڪل مارڪون: ۳۰

حصو ”ج“ (بيانيه سوال جا جواب)

(۰۶)

سوال ۶: هيٺين مان ڪنهن به هڪ عنوان تي مضمون لکو

☆ پسندیده شخصيت

☆ شاه عبدالطيف

☆ تندرستي هزار نعمت آهي

(۰۶)

سوال ۷: پنهنجي اسڪول جي هيڊ ماستر کي عيد ميلادالنبی جي اجازت لاءِ درخواست لکو

يا

والد صاحب کي ڪتابن خريدن ڪرڻ لاءِ خط لکو.

(۰۶)

سوال ۸: هيٺ ڏنل شعرن مان ڪن به ٻن جي سمجهاڻي نظر ۽ شاعر جي حوالي سان لکو.

i. شال نه وسري هوت، پيو سڀ مون وسري

مون کي تائين موت، هئين اڪڙين ۾.

ii. اسان جي قوم کي آزاد ڪر قرضن ۽ مرضن کان

اسان جي قوم کي آباد ۽ دلشاد ڪر مولا

iii. بک بيماري ڪڍ پچائي

تنهنجا گڻ زمانو گائي

iv. منڙا وطن تنهنجي مٿان سر ساه سڀ گهوري ڇڏيان

تنهنجو نه مٿ ڪو ديس پيو محبوب موچارا وطن

يا

هيٺ ڏنل رباعي جي تشريح نظر ۽ شاعر جي حوالي سان لکو.

مون سان جي ڪٿي ڪو به برائي تو ڪري

دل منهنجي برائي مان نه ته به ان ڏي وري

آءُ ان سان دل به ساڻ ڪندس پيو نيڪي

توفيق جو هت شال خداوند ڌري

(۰۵)

سوال 9: (الف) هيٺين مان ڪنهن به هڪ سبق جو مر ڪزي خيال لکو.

☆ مائي خيرِي

☆ هنر دولت آهي

☆ اجرڪ

(۰۴)

(ب) هيٺين مان ڪنهن به هڪ نظر جو خلاصو يا مرڪزي خيال لکو.

☆ ڏيئو

☆ پيارا وطن

☆ نيڪي نظر

(۰۳)

(ج) هيٺ ڏنل پيراگراف جو اردو ۾ ترجمو ڪريو.

توهان مون ڏي جيڪي سنڌي ڪتاب موڪليا آهن، انهيءَ لاءِ مان اوهان جو ثورائتو آهيان، هاڻي منهنجي سنڌي

سنڌي ٿي وئي آهي. انهي جو ثبوت منهنجو هي خط آهي.

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MATHEMATICS S.S.C. PART-II (SCIENCE GROUP)

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Time: 3 Hours

Max. Marks: 75

General Instructions:

Section 'A': It consists of 15 Multiple choice questions (MCQs) and all of them are to be answered.

Section 'B': It consists of 10 Short Answer questions out of which 06 questions are to be solved.

Section 'C': It comprises 05 Descriptive questions of which 03 questions are to be solved.

SECTION 'A' (MULTIPLE CHOICE QUESTIONS)

Time: 30 Minutes

(Marks: 15)

NOTE:

1. Attempt all questions from this section.
2. Do not copy down the question. Write only the answer against the proper number of the question
3. Each question carries One mark.

Q 1: Choose the correct answer for each from the given options:

- i.** If $(9, y-6) = (x + 5, 8)$ then $x + y =$
 (a) 4 (b) 14 (c) 18 (d) none of these
- ii.** If $A = \{1,2,3,4\}$ and $B = \{2,4,6\}$ then $A - B =$ _____
 (a) $\{2, 4\}$ (b) $\{1, 3\}$ (c) $\{2, 3\}$ (d) $\{1, 4\}$
- iii.** $w^{1234567} =$
 (a) w^2 (b) w^3 (c) w (d) w^5
- iv.** Find x if $\begin{vmatrix} 5 & 1 \\ 2 & x \end{vmatrix} = x + 4$
 (a) $\frac{3}{2}$ (b) $\frac{2}{3}$ (c) 0 (d) none of them
- v.** If p, q are the roots of $2x^2 + 5x + 3 = 0$, then $p + q =$ _____
 (a) $\frac{5}{3}$ (b) $\frac{3}{5}$ (c) $\frac{5}{2}$ (d) $-\frac{5}{2}$
- vi.** An improper fraction can be reduced into proper fraction by
 (a) addition (b) multiplication (c) subtraction (d) division
- vii.** The A.M of $\{0, 90, k, 10, 100\}$ is 40, then $k =$ _____
 (a) 0 (b) 90 (c) 10 (d) 100
- viii.** If $\frac{1}{2} \sec 45^\circ =$
 (a) $\sqrt{2}$ (b) $\frac{\sqrt{2}}{2}$ (c) $\frac{2}{\sqrt{2}}$ (d) $\frac{1}{\sqrt{2}}$
- ix.** The bisector of an angle of equilateral triangle divides the opposite side in
 (a) 2:3 (b) 3:2 (c) 1:1 (d) 5:2
- x.** All circles are always _____
 (a) congruent (b) similar (c) tangent (d) none of these
- xi.** The maximum number of common tangents between two circles touching externally is _____.
 (a) 0 (b) 1 (c) 2 (d) 3
- xii.** If data contains a number equal to zero then _____ cannot be computed.
 (a) A.M (b) G.M (c) H.M (d) Median
- xiii.** The sum of central angles of all the arcs of a circle is _____
 (a) 90° (b) 180° (c) 360° (d) 1000°
- xiv.** _____ circles can pass through a single point
 (a) one (b) two (c) three (d) infinite
- xv.** $\sec^2\theta - \tan^2\theta =$ _____
 (a) 0 (b) 1 (c) -1 (d) $\cos^2\theta$

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Total Time: 2 1/2 Hours

(Marks: 60)

SECTION 'B'

(SHORT-ANSWER QUESTIONS)

(30 Marks)

Note: Attempt any six (06) questions from this section.

Q.2: If $U = \{x|x \in N^+ 1 \leq x \leq 10\}$, $A = \{1,2,3,4,5\}$, $B = \{1,3,5,7\}$ then prove that $A \Delta B = (A \cup B) - (A \cap B)$

OR $A \Delta B = (A - B) \cup (B - A)$

OR Prove any one condition of De-morgan's law.

Q.3: If $a:b = c:d = e:f$ then show that

$\frac{(a+c+e)^3}{(b+d+f)^3} = \frac{ace}{bdf}$ OR $(a^2 + c^2 + e^2)(b^2 + d^2 + f^2) = (ab + cd + ef)^2$

OR Using theorem of Componendo and dividend, find the value of x.

If $\frac{\sqrt{x+6}-\sqrt{x-6}}{\sqrt{x+6}+\sqrt{x-6}} = \frac{2}{5}$

Q.4: Prove that $\cos^4\theta - \sin^4\theta = \cos^2\theta - \sin^2\theta$ OR $\sqrt{\frac{\sec\theta+1}{\sec\theta-1}} = \frac{\sec\theta+1}{\tan\theta}$

OR $\frac{1+\sec\theta}{1-\sec\theta} = \frac{\sin\theta+\tan\theta}{\sin\theta-\tan\theta}$

Q.5: Find the remaining trigonometric function / ratios if $\sin\theta = \frac{\sqrt{3}}{2}$ and θ lies in second quadrant.

OR Find the height of the electric pole if the angle of elevation of the top of the electric pole from a point on the ground 18m away from its base is 30° .

OR In a circle of radius 12cm, an arc is subtended a central angle of 84° . Find its arc length and also calculate area of the sector.

Q.6: Find the cube root of -27 OR 125

OR Prove the following:

$\left(\frac{-1+i\sqrt{3}}{2}\right)^9 + \left(\frac{-1-i\sqrt{3}}{2}\right)^9 - 2 = 0$ OR $(a+b)(aw+bw^2)(aw^2+bw) = a^3 + b^3$

OR Solve the following system of equation $2x - y = 3$ and $x^2 + y^2 = 2$

Q.7: Resolve into partial fractions

$\frac{3(2x^2-8x-1)}{(x+4)(x-1)(2x-1)}$ OR $\frac{3x^3-2x^2-16x+20}{(x-2)(x+2)}$ OR $\frac{4x-3}{(x+1)^2}$ OR $\frac{x^2+9x+8}{x^2+x-6}$

Q.8: Find the median electricity consumption of a shop for 60 days using the data.

Electricity consumption	68-87	88-107	108-127	128-147	148-167	168-187	188-207
No. of days	10	13	15	10	4	6	2

OR Find mean deviation in mass of 50 blocks of metals as distributed in the following data.

Mass of lock (kgs)	7.1-7.3	7.4-7.6	7.7-7.9	8.0-8.2	8.3-8.5	8.6-8.8	8.9-9.1
No. of blocks	3	5	9	14	11	6	2

OR The marks obtained by students in a subject out of 50 are given in the following grouped table. Find mode.

Marks	25- 29	30-34	35-39	40-44	45-49
No. of students	9	18	35	17	5

OR Find range, variance and standard deviation of number of absentees in a class for last seven days: 3, 5, 3, 2, 4, 1, 8

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MATHEMATICS S.S.C. PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi

- Q.9:** Solve the following system of linear equations by using matrix inversion method $5x+2y=3$; $3x + 2y = 5$
OR Solve the system of linear equations by using Cramer's Rule
 $3x + 2y = 10$; $-6x + 4y = 4$
- Q.10:** Perpendicular from the centre of a circle to a chord, prove that bisects it.
OR If two chords of a circle are congruent then they will be equidistant from the centre. Prove it.
OR Equal chords of a circle (or two circles) subtend equal angles at the centre, prove it.
- Q.11:** If α, β are the roots of the equation $2x^2 - 3x + 7 = 0$, then find the value of $\frac{\alpha}{\beta^2} + \frac{\beta}{\alpha^2}$ **OR** $\frac{1}{\alpha+1} + \frac{1}{\beta+1}$
OR $\alpha^3 + \beta^3$
OR If α, β are the roots of the equation $6x^2 - 3x + 1 = 0$, from the equations where root are $\alpha+\beta, \frac{1}{\alpha} + \frac{1}{\beta}$ **OR** $\frac{1}{\alpha}, \frac{1}{\beta}$

SECTION 'C'

(DETAILED-ANSWER QUESTIONS)

(30 Marks)

Note: Attempt any three (03) questions from this section.

- Q.12:** Find the inverse of the matrix by adjoint method (any one of them)

i) $A = \begin{bmatrix} 9 & 2 & 1 \\ 5 & -1 & 6 \\ 4 & 0 & -2 \end{bmatrix}$ ii) $B = \begin{bmatrix} 2 & 1 & 1 \\ 3 & 2 & 1 \\ 2 & 1 & 2 \end{bmatrix}$

- Q.13:** If the square of one side of triangle is equal to the sum of the squares of the other two sides then the triangle is a right angled triangle, prove it.
- Q.14:** A line parallel to one side of a triangle and intersecting the other two sides, divides them proportionally, prove it.
- Q.15:** Construct the ΔABC and draw its circumcircle if $m \overline{AB} = 5.5\text{cm}$, $m \overline{AC} = 6\text{cm}$ and $m\angle A = 50^\circ$ (also write step of construction)
OR Draw two equal circles each of radius 3.3cm with centres at point A and B such that $m \overline{AB} = 7.8\text{cm}$. Draw transverse common tangents to these circles. (also write steps of construction)
- Q.16:** The tangent to a circle and the radial segment joining the point of contact and the centre are perpendicular to each other prove it.

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COMPREHENSIVE EXAMINATION 2023-24

PHYSICS S.S.C. PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi



Total Time: 3 Hours

Total Marks: 60

General Instructions:

Section 'A': It consists of 12 Multiple choice questions (MCQs) and all of them are to be answered.

Section 'B': It consists of 12 Questions out of which 08 to be answered.

Section 'C': It comprises 06 Questions out of which 04 questions are to be answered.

SECTION 'A'

(MULTIPLE CHOICE QUESTIONS)

Time 30 Minutes

(12 Marks)

Note:

(i) Attempt all Questions from this section.

(ii) Do not copy down the question. Write only the correct answer against the proper number of the question and its part according to the question paper.

Q.01: Choose the correct answer for each from the given options:

i. The least distant of vision for normal eye is:

- 20 cm
- 25 cm
- 30 cm
- 35 cm

ii. In the ball and bowl system, the mean position is at:

- The earth
- Floor of the bowl
- Center of the bowl
- Extreme position

iii. Which is the extension not suitable to an MS-word file:

- .doc
- .docx
- .rtf
- .jpeg

iv. The electromagnetic rays used in radiotherapy to destroy cancer cells are

- Infrared rays
- X-rays
- Visible rays
- Ultraviolet rays

v. Electronics comprises the:

- Physics
- Engineering
- Technology
- All of these

vi. The condition when the resistance of a circuit is zero is known as:

- Closed-circuit
- Open circuit
- Short circuit
- Zero circuit

vii. Audible frequencies range that a normal human ear can detect is:

- 10 Hz and 10 kHz
- 20 Hz and 20 kHz
- 25 Hz and 25 kHz
- 30 Hz and 30 kHz

viii. What is the direction of the magnetic field lines inside a bar magnet?

- from north pole to south pole
- from south pole to north pole
- there are no magnetic field lines
- from side to side

ix. Two capacitors of $8\mu\text{F}$ are connected in series then the equivalent capacitance is:

- $\frac{1}{4}\mu\text{F}$
- $2\mu\text{F}$
- $4\mu\text{F}$
- $6\mu\text{F}$

x. If an element B has five protons & has six neutrons what will be the symbol of element B:

- ${}_{6}^{11}\text{B}$
- ${}_{11}\text{B}$
- ${}_{5}^{11}\text{B}$
- ${}_{11}^{5}\text{B}$

xi. 1 light year is equal to:

- 9.46×10^{10} km
- 9.46×10^{12} km
- 9.46×10^{14} km
- 9.46×10^{16} km

xii. The type of radiation that travel in straight line across an electric field is a/an:

- Proton
- Electron
- Alpha particle
- Gamma-ray

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COMPREHENSIVE EXAMINATION 2023-24

PHYSICS S.S.C. PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi



Time Duration: 2:30 hours

SECTION 'B'

Marks: 48

(SHORT-ANSWER QUESTIONS)

Marks: 24

Note: Answer any eight (08) questions from following. All questions carry equal marks.

- Q2. Write down three differences between Mechanical waves & Electromagnetic waves
OR Write three application of ultrasound techniques in industry and medicine.
- Q3. Define Dispersion of light & describe when light passing through a glass prism, draw diagram.
OR Define Reflection of light and laws of reflection.
OR With the help of diagram describe total internal reflection and write conditions for total internal reflection
- Q4. Define Capacitance of capacitor & write two factors on which it depends.
OR Write down three-point differences between Analogue & digital electronics
- Q5. Write three uses of resistance.
OR Define Mutual induction, Faraday's law of induction and Right-hand rule.
- Q6. Name different information storage devices and describe use of anyone.
- Q7. Describe structure of an atom.
OR write one application of each radioisotope in medicine, agriculture & in industry.
- Q8. What is the wavelength of a radio wave broadcasted by a radio station with a frequency of 1300 kHz? & the speed of the radio-wave is $3 \times 10^8 \text{ ms}^{-1}$.
OR A sound wave has frequency of 6 kHz and wavelength 25 cm. How long will it take to travel 1.5 km?
- Q9. Calculate the wavelength of 100 – M Hz radio wave used in an MRI unit?
- Q10. A concave lens of focal length 20 cm forms an image 15 cm from lens. How far is the object positioned from the lens?
OR An object is placed 15 cm away from converging lens of focal length 10 cm. Determine the position, nature of image formed.
- Q11. The potential difference applied to a portable radio terminal is 6 volts. Determine the resistance of the radio when a current of 20 mA flows through it.
OR What is the electric force of repulsion between two electrons at a distance of 1m?
- Q12. A wire carrying 4A current and has length of 15 cm between the poles of a magnet is kept at an angle of 30° to the uniform field of 0.8T. Find the force acting on the wire.
- Q13. If there are 96 g of radioactive element Neptunium - 240 present, how much Np - 240 will remain after 6 hours? (Np – 240 has half-life of 1hour)

SECTION 'C'

(DETAILED-ANSWER QUESTIONS)

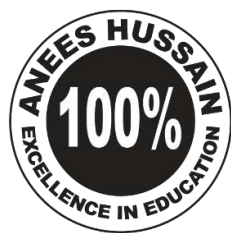
Marks: 24

Note: Attempt any four questions from this section. All questions carry equal marks.

- Q14. Define S.H.M and Prove that the motion of a simple pendulum executes simple harmonic motion.
OR Define musical sound and noise explain characteristics of musical sound in detail.
- Q15. Define electrostatic induction & describe it with the help of experiment with the use of two metal sphere. Draw diagrams.
- Q16. State and explain Lenz's law of electromagnetic induction, draw diagrams.
OR Define Electromagnetic force & derive an expression for force on a moving charge in a magnetic field.
OR Describe turning effect on a current carrying coil in a magnetic field with diagram.
- Q17. What is CRO? Write construction and working of CRO.
OR Define electronics, and describe transmission of radio waves through space.
- Q18. State Ohm's law and derive its formula also write four limitations Ohm's law also write formula.
OR Define Ammeter & Voltmeter. How can we convert a Galvanometer into Ammeter & Voltmeter? Draw diagrams.
- Q19. Describe the construction and working of Projector with the help of ray diagram.
OR What is compound microscope? With the help of ray diagram, describe magnification of compound microscope.

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COMPREHENSIVE EXAMINATION 2023-24

CHEMISTRY PAPER-SSC PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi



TIME: 3 Hours

TOTAL MARKS: 60

General Instructions:

Section "A": It consists of 12 multiple choice questions (MCQs) and all of them are to be answered.

Section "B": It consists of 12 short answer questions of which 08 questions are to be answered.

Section "C": It consists of 06 descriptive answer questions of which 04 questions are to be answered.

Section "A"

(Multiple Choice Questions)

Time: 30 Minutes

(Marks: 12)

Note

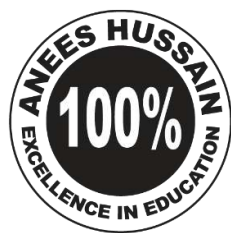
- Attempt all questions from this section
- Do not copy down questions. Write only the answers against the proper number of the question.
- Each question carries one mark.

Q1. Choose the correct answer of each from the given option:

- The unit of K_c for reaction $N_2 + O_2 \rightleftharpoons 2NO$**
* mol dm^3 * $\text{mol}^{-2} \text{dm}^6$ * $\text{mol}^{-1} \text{dm}^3$ * no unit
- Which of the following is not an Arrhenius acid:**
* HCl * CO_2 * HNO_3 * H_2SO_4 .
- The system is stable in equilibrium when:**
* $Q_c = K_c$ * $Q_c > K_c$ * $Q_c < K_c$ * None of these
- Which is not part of greenhouse gases:**
* carbon dioxide * methane * nitrous oxide. * Oxygen.
- The gas is mobile phase in:**
* Light chromatography * Liquid chromatography
* Gas chromatography * N.O.T
- Alkenes:**
* Show Some General Formula As Alkynes. * Have Carbon Carbon Triple Bond.
* Have Carbon Carbon Double Bond * Are Saturated Hydrocarbons Is Radical.
- Water accounts for the weight of a human body is about:**
* 50% * 60% * 70% * 80%
- What is true about a Peptide?**
* It is a protein * It is an anhydride of a carboxylic acids
* It is an anhydride of an amine * It is a polyamide.
- Soap is the term for a salt of a:**
* Carboxylic acid * citric acid
* Sulphuric acid * fatty acid
- Which of the following is helpful for removal of permanent hardness:**
* Na_2CO_3 * $\text{Ca}(\text{OH})_2$ * CaCO_3 * Na_2SO_4
- Layer of atmosphere which separates stratosphere and troposphere is known as:**
* tropo-pause * mesopause * thermopause. * Stratopause
- Cotton contains _____ cellulose.**
* 30% * 65% * 85% * 95%

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SECTION "B"

(SHORT-ANSWER QUESTIONS)



(Max Marks: 24)

- Q.2** Define the following? (**any three**)
Isomerism, Bloor's Reagent, Fatty Acid, Ozone Hole, Potentiometry, Deviation, Precision Matrix, sample, Carbonation. Indicator, Titration, , Equilibrium Constant, pH, Neutralization, Watter Pollutant, Chemical Equilibrium
- Q.3** Differentiate between the following: (**any one**)
a) Fat Soluble and Water Soluble Vitamins **OR** Fat and Oil
b) Troposphere and stratosphere **OR** Hard water and Soft water
c) Quantitative Analysis and Qualitative Analysis **OR** Titrimetric Analysis and Gravimetric Analysis
d) Saturated and Un-Saturated Hydrocarbon **OR** Reversible and Irreversible Reaction
- Q.4** Nitrogen oxides are air pollutants produced by the reaction of nitrogen and oxygen at high temperature. At 2000^oC, the value of the equilibrium constant for the given reaction is 6.4×10^{-4} .
$$\text{N}_2 + \text{O}_2 \rightleftharpoons 2\text{NO}$$

Find the concentration of NO in an equilibrium mixture at 1 atm pressure at 2000^oC. In air $[\text{N}_2] = 0.036$ mol/L and $[\text{O}_2] = 0.0089$ mol/L.
OR The value of Kc for the reaction is 1×10^{-4}
$$2\text{HI} \rightleftharpoons \text{H}_2 + \text{I}_2$$

At a given temperature, the molar concentration of reaction mixture is $\text{HI} = 2 \times 10^{-5}$ mol/dm³, $\text{H}_2 = 1 \times 10^{-5}$ mol/dm³ and $\text{I}_2 = 1 \times 10^{-5}$ mol/dm³. Predict the direction of the reaction.
OR A reaction takes place between Iron ion and Chloride ion.
$$\text{Fe}^{+3}(\text{aq}) + 4\text{Cl}^- \rightleftharpoons \text{FeCl}_4^-(\text{aq})$$

At equilibrium, the concentrations are measured to be $[\text{Fe}^{+3}]$ is 0.2 mol.dm⁻³, $[\text{Cl}^-]$ is 0.28 mol.dm⁻³ and FeCl_4^- is 0.95×10^{-4} mol.dm⁻³. Calculate equilibrium constant Kc for given reaction.
- Q.5** Find pH, pOH and $[\text{H}^+]$ of 2.46×10^{-9} M KOH solution.
OR A solution of HCl has pH of 2.3, calculate its pOH and $[\text{H}^+]$
- Q.6** Explain Lewis theory of acid-base with the examples of NH_3 and AlCl_3 or BF_3
OR Describe Bronsted and Lowery acid-base theory. Also write down its limitations.
OR What are Conjugate Acid – base pairs? Explain with Examples?
- Q.7** Define functional group. Identify the functional groups in the following compounds:
a) $\text{CH}_3\text{—CHO}$ b) $\text{CH}_3\text{—CH}_2\text{—OH}$ c) $\text{CH}_3\text{—CO—CH}_3$ d) $\text{CH}_3\text{—COOH}$
OR What is homologous series? Name the some common homologous series.
OR Define the Alkyl Radicals with suitable examples?
- Q.8** What are nucleic acids? Write three points to differentiate between DNA and RNA.
OR What are amino acids? How do they polymerize to form proteins?
OR What is peptide bond? How it is formed? And also explain dipeptides and tripeptides/
- Q.9** How does greenhouse effect increase the temperature? Explain its effects on environment.
OR What is ozone? How is ozone layer depleted? Write two harmful impacts of ozone depletion?
OR What is the causes of acid rains **OR** Write down the effects of acid rains
- Q.10** What do you mean by 'water borne diseases'? Describe any three of them.
OR List down the diseases due to polluted drinking water.
- Q.11** Describe that NaOH and KOH are used in preparation of soap
OR Justify the Petroleum is 'Black Gold'
- Q.12** List down the applications of conductometry.
OR can you give some examples of error related to your life?
OR How scientists are using infrared spectroscopy in quality control of different industries?

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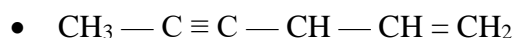
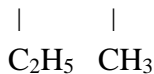
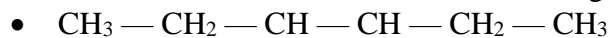
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CHEMISTRY PAPER-SSC PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi



Q.13 Write down the IUPAC names of the following hydrocarbons:



SECTION "C"

(Max Marks: 24)

(DETAILED ANSWER QUESTIONS)

Q.14 Explain the process of preparation of sugar from sugar cane.

OR Draw a stepwise preparation of soft drink in flow sheet diagram.

Q.15 How do you use the value of K_c to determine the extent of reaction?

OR Describe fractions of petroleum in detail.

Q.16 What is salt? Give its preparation. Also explain its types with examples.

OR Classify organic compounds. Also write down suitable examples for each.

Q.17 What are carbohydrates? Give their classification. Explain any two of them.

OR Define vitamins. Describe diseases that are caused by the deficiency of vitamins.

Q.18 What is hard water? Give the cause of hardness. Explain how temporary and permanent hardness can be removed.

OR Describe that how different air pollutants affect environment and human health.

OR Describe the water pollutants in industries.

Q.19 Gas Chromatography with diagram. Also write down its two uses

OR Define spectroscopy. Explain UV spectroscopy in detail.

OR Justify that electrochemical methods depend upon Electrochemical cells?

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COMPREHENSIVE EXAMINATION 2023-24

BIOLOGY S.S.C. PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi



Total Time: 3 Hours

Total Marks: 60

General Instructions:

Section 'A': It consists of 12 Multiple choice questions (MCQs) and all of them are to be answered.

Section 'B': It consists of 13 short answer questions of which 08 questions are to be answered.

Section 'C': It comprises 06 Descriptive answer questions of which 04 questions are to be answered.

SECTION 'A'

(MULTIPLE CHOICE QUESTIONS)

(Time: 30 Minutes)

(12 Marks)

Note:

- Attempt all the questions.
- Do not copy down the Questions. Write only the answer against the proper number of questions and its part.
- Each question carries ONE mark.

Q 1: Choose the correct answer for each from the given options:

- The seed coat of seed is composed of _____ layers.
*Inner integument *Protein *Outer integument * Both A&C
- The Modern pharmacology was introduced by _____.
*Alexander Fleming *Oswald Schmeideberg *Joseph Lister *None of these
- Reproductive system of male rabbit contains following glands:
*Semi-vesicular gland. *Cowper's gland *Prostrate gland *All of them
- The inner most layer of skin is composed of _____.
*Connective tissue *Epithelial tissue *Adipose tissue *None of these
- Exoskeleton is composed of _____.
*Osteoclast *Chondrocyte *Osteocytes *Protein
- _____ are formed in the process of nitrification.
*Nitrogen *Nitrates *Sulphates *Oxides
- The completely alternative change in the gene's trait is called _____.
*Allele *Variation *Mutation *None of them
- The first antibiotic introduced is named as _____.
*Opium Poppy *Quinine *Marijuana *Penicillin
- Pneumonia is caused by _____.
*Virus *Bacteria *Fungi *All of them
- Kidney is covered by a membrane called _____.
*Peritoneum *Meninges *Peritoneal *None of them
- Genetic engineering deals with the _____ of DNA or genes.
*Manipulation. *Modification. * Recombination. *All of them
- The scar present on the seat coat where absorption of water takes place is called _____.
*Hilum *Radicle * Micropyle *Cotyledon

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BIOLOGY S.S.C. PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi



Time Duration: 2 ½ hours

Marks: 48

(Marks 24)

SECTION 'B' (SHORT-ANSWER QUESTIONS)

Note: Answer any Eight (08) questions from this section. Each question carries 03 marks. Answer should be clear and according to need. No extra detail is required.

- Q2. Why nervous co-ordination is faster than chemical co-ordination:
OR Why the sedative drugs is used for?
- Q3. Differentiate between: (Any One)
*Chemical response and nervous response
*Bones and Cartilage
*Vegetative propagation and artificial propagation
- Q4. Describe the mechanism of respiration in man:
- Q5. Write down any 3 sources of medicinal drugs:
OR Define Muscles: Also write its types:
- Q6. Draw neat and labelled diagram of Reproductive system of Male rabbit:
- Q7. What is meant by Reflex Action? **OR** Write a note on Urea Formation:
- Q8. Define the following:
*Mutation *Heredity *Variation
OR *Vaccine *Immunization *Fermentation
- Q9. Describe the structure and composition of DNA:
- Q10. Why stomata generally opens at day time?
- Q11. What is epilepsy?
OR Define consumers and its types:
- Q12. What do you mean by the term Oxygen Debt?
- Q13. Write any 2 disorders:
*Kidney Stone. *Asthma. *Rickets
- Q14. Describe Green House Effect **OR** Acid Rain:

SECTION 'C' (DETAILED-ANSWER QUESTIONS)

(Marks 24)

Note: Answer any FOUR (04) questions from this section. Each question carries 06 marks

- Q15. Describe the law of Independent Assortment along with the checker board:
- Q16. Describe Brain: Also describe its various components:
OR Draw the diagram of any One of the following:
*Structure of Human Eye *L.S of Kidney *Structure of Nephron
- Q17. Explain the term double Fertilization in detail along with the diagram:
- Q18. Define Joints: Also describe its types in detail along with the name of movements:
- Q19. Define Biotechnology: Also describe its scope and importance:
- Q20. Explain the structure of Human respiratory system in detail:

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COMPUTER SCIENCE PAPER-SSC PART-II (SCIENCE GROUP)

According to the syllabus of the Board of Secondary Education, Karachi



Time: 3 Hours

Max. Marks: 60

General Instructions

Section "A" It consists of 12 Multiple Choice Questions (MCQs) and all of them are to be answered.

Section: "B" It consists of 12 Short – Answer Questions of which 08 questions are to be answered.

Section: "C" It comprises 06 Descriptive – Answer Questions of which 04 questions are to be answered

SECTION 'A'

(MULTIPLE CHOICE QUESTIONS)

Time Duration 30 Minutes

(12 Marks)

Note:

- (i) Attempt all the questions.
- (ii) Do not copy down the Questions. Write only the answer against the proper number of questions and its part.
- (iii) Each question carries ONE mark.

Q 1: Choose the correct answer for each from the given options:

i. This flowchart symbol indicates the initialization and termination of a flowchart :

- * terminal
- * rectangle
- * parallelogram
- * diamond

ii. This term refers to insert data elements at the back of a queue:

- * stack
- * dequeue
- * Enqueue
- * queue

iii. A translator takes a program written in source language as:

- * Output
- * input
- * program
- * none of these

iv. Which of the following type of error is the most common error done by the beginner programmers?

- * Syntax error
- * run time error
- * logical error
- * all of these

v. If the value of X is 3, then evaluate the value of the following statement :

cout<<x++<<+x;

- * 4, 5
- * 5, 6
- * 4, 4
- * 3, 4

vi. Modulus operator is also known as:

- * Division operator
- * remainder operator
- * left operator
- * unary operator

vii. A good problem definition should be :

- * precise
- * general
- * lengthy
- * easy

viii. A labeled statement consist of an identifier followed by

- * colon
- * semi colon
- * comma
- * equal

ix. What are types of Functions in C Language.?

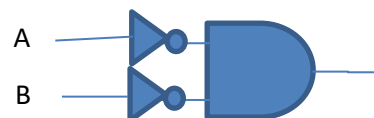
- * Library Functions
- * User Defined Functions
- * Both Library and User Defined
- * None of the above

x. Boolean expression of the given circuit is:



- * $\overline{A + B}$
- * B.A
- * A.B
- * $\overline{(A . B)}$

xi. Boolean expression of the given circuit is:



- * $\overline{A + B}$
- * $\overline{\overline{A + B}}$
- * $\overline{A . B}$
- * $\overline{A} . \overline{B}$

xii. To change the position of sprite on screen we use:

- * Command pallets
- * coordinates
- * stage information
- * costume tab

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Time: 2 ½ hours

Max. Marks: 48

SECTION 'B'
(SHORT-ANSWER QUESTIONS)

(24 Marks)

Note: Answer any 08 questions from this section. All questions carry equal marks.

Q2. Draw a flowchart to calculate the acceleration of a moving body. ($a = \frac{vf-vi}{t}$)

OR Write any program by using arithmetic operator.

Q3. Define the following:

* Sprite block

* stage preview

* sprite list

Q4. Draw a truth table of the following Boolean Algebra Rules:

* $(A+B)(A+C) = A+BC$

* $A + \bar{A}.B=A+B$

Q5. Write a program to check whether a gender is male student or female student.

OR Write any three characteristics of an Algorithm.

Q6. Difference between NOT gate and NOR gate. (write three points for each)

Q7. Define function declaration .

OR Difference between getchar , getche and getch.

Q8. Difference between postfix and prefix increment operator. (write three points for each)

Q9. What is the output of the following program:

```
int main()
{
int a;
for(a=1;a<=5;a++)
{
cout<<a*a*a<<endl;
}
}
```

Q10. Write a program of the following output:

```
10 1
10 2
11 1
11 2
```

Q11. Draw a logic circuit of four inputs NAND gate with truth table.

OR Simplify the following Boolean expression:

$$Z = AA+BC+ABB + A(A+B)$$

Q12. Rewrite the errors and what will be the output of the following program:

```
# INCLUDE <iostream>
using namespace standard;
main()
{
Int a;
For(a=0;a<35;a+=5); {
COUT<<A;
}
RETURN 1;
}
```

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- Q13. Write any three advantages and disadvantage of Low level language.
OR Define IDE with its three benefits.

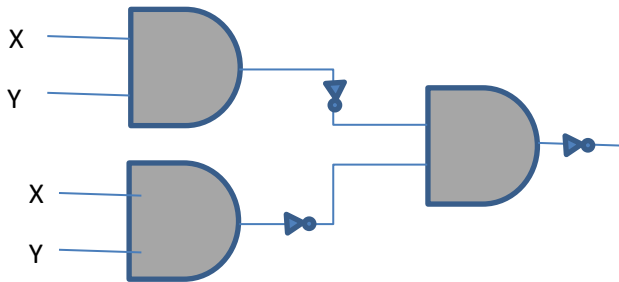
SECTION 'C'

(DETAILED-ANSWER QUESTIONS)

(24 Marks)

Note: Attempt any Four questions from this section. All questions carry equal marks.

- Q14. Describe linear data structure with its types in detail with necessary diagram..
- Q15. Define computer error. Also describe its main types occur during coding a program.
OR Define operator also describe arithmetic operator, relational operator and Boolean operator with its major operators.
- Q16. Write a program to generate the following pattern by using return value and passing arguments technique..
20, 25, 30, 0, 5, 35, 15, 10,
- Q17. Derive the Boolean expression from the given circuit and make a truth table of that Boolean expression.



- Q18. Describe different types of jump statements also write any program by using break OR continue statement..
- Q19. Define switch statement with syntax also write a suitable program with switch statement..

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