



ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

COMPREHENSIVE EXAMINATION 2023-24 ENGLISH (COMPULSORY) S.S.C. PART-I (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. **How did the Quraish treat the Holy Prophet (SAW)? They:**
* favoured him * opposed him * loved him * criticized him
- ii. **Madinat un- Nabi means:**
* the city * the prophet (saw) * the center * the city of prophet (saw)
- iii. **The word "shabby" means:**
* in a new condition * decent * in a poor condition * valuable
- iv. **Which one of the following is not the quality of a visionary?**
* inspiration * recognition * support * negligence
- v. **Pakistan Resolution was passed in**
* Bombay * Delhi * Allahabad * Lahore
- vi. **Which of the following diseases is caused by mosquito?**
* Typhoid * COVID * Dysentery * Chikungunya
- vii. **He has written the poem "The Miller of the Dee":**
* William Shakespeare * William Wordsworth
* Henry Leigh Hunt * Charles Mackay
- viii. **"Service to mankind is the service to God", is the moral of the poem:**
* A Mountain and a Squirrel * A Child's Invocation
* The Miller of the Dee * Abou Ben Adhem
- ix. **According to the poem "Abou Ben Adhem" the moonlight in the room was making it:**
* lovely * rich * frightening * cool
- x. **The first woman who represented the Muslim women in three Round Table Conferences in London was:**
* Fatima Jinnah * Begum Jahan Ara Shahnawaz
* Bilquis Edhi * Begum Ra'ana Liqueat Ali Khan
- xi. **The king went to see the saint:**
* all alone * with all his soldiers * along with his family * with all his courtiers
- xii. **In the village, the meeting place for men was:**
* Otaq * village well * fields * school
- xiii. **The Poem "A Child's Invocation" is written in _____ form.**
* quatrain * tercet * couplet * sestet
- xiv. **The poem 'The Daffodils' consists of:**
* five stanzas * three stanzas * four stanzas * two stanzas
- xv. **In the poem "A Child's Invocation", a child is praying that his life will be like:**
* bulb * tube light * candle * All of these
- xvi. **Everything shows the _____ of God.**
* omnipotence * presence * willingness * creativity
- xvii. **The comparative degree of "bad" is:**
* badder * worse * worst * better
- xviii. **In malaria, the parasite infects the:**
* lungs * white blood cells * red blood cells * brain
- xix. **In malaria, the temperature may reach as high as:**
* 98°F * 100°F * 104°F * 110°F
- xx. **The Quaid-e-Azam was one of the top barristers of:**
* Karachi * Bombay * Dehli * London



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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)

- At the time of arrival of Prophet Muhammad (P.B.U.H) in Madina, which groups of people used to live there?
- What is Shah Latif's key message in his verses acceptable to everyone?
- Both Sara and Jameel had to pass every test in the first go. Why was it so?
- Why was the Quaid-e-Aza greatly respected by the people of all faith?
- Who was the Miller? What was he singing about?
- Why did Abou Ben Adhem receive Lord's blessing?
- Do you think we should build more barrages in our country? Support your answer by providing two reasons.

Q.3 Do as directed. (as instructed in the bracket) (20)

- (Use Preposition)**
 - The sun sets _____ the West.
 - He brought _____ the orphan as his own child.
- (Use Article)**
 - He first met him ____ year ago.
 - _____ river Indus flows through Sindh Province.
- (Change the Voice)**
 - Who gave him a book?
 - Do not pluck the followers.
 - I will see you next month.
- (Change the Narration)**
 - He said to me, "Did you buy this book this week?"
 - Mother said to his daughter, "Do not leave this room without my permission."
 - The scientists said, "The earth revolves around the sun."
- Formation of Sentences (change the following sentences as suggested in the bracket)**
 - The God knows better. (change into Past Indefinite)
 - I am not celebrating my birthday this year. (change into Past Continuous)
 - Are you participating in race competition? (change into Future Perfect)
 - Are you enjoying the party? (change into Future Continuous)
 - She learnt all lessons carefully. (change into Interrogative)
 - I am not late, _____? (add Question Tag)
 - how colourful that pheasant is (Punctuate and capitalize)
- Write correct form of the VERB given in bracket.**
 - I were not late if I (get) the bus on time.
 - We will plan for picnic if the weather (remain) pleasant.
- Add SUFFIX**
 - Areas near the rivers are usually _____ (mud).

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Q.4 Indicate the part of speech, the underlined words belong to. (05)

- He revised the same mistake twice.
- Always walk to the right path.
- Sincerity builds a good personality.
- Hurrah! We have won the match.
- Although it is raining, we will go for picnic.

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

Aurangzeb was a very good natured and God-fearing king. He used to get up very early in the morning to worship God. During his reign, he had issued orders for people to offer their prayers and to do good deeds so that the whole life might pass happily. He held his court at dawn and listened to the requests of the poor and the needy. He treated them with love and fulfilled their desires.

Section "C"

(Descriptive Questions/Answers)

(Marks: 40)

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

| | | | | |
|---------|------------|------------|-------------|--------|
| People, | reverence, | sensitive, | translated, | mystic |
|---------|------------|------------|-------------|--------|

Shah Abdul Latif was a _____, gentle and kind soul. He was a poet of _____, so he wrote in the language of the common man. His collected poems have been compiled in Shah jo Risalo. Which has been _____ into English, Urdu, and other languages. His spiritual and _____ poetry carries a message of love. Shah Abdul Latif always will be remembered for his great poetry with love and _____.

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

- Energy crisis in Pakistan
- An Exciting Cricket Match
- Advantages and Disadvantages of Internet

OR

Write an e-mail to your friend congratulating him/her on the success in the examination.

Q.8 Write an application to the principal of your school requesting him/her to issue you a sports certificate. (10)

OR

Suppose, you have been selected to represent your school at an "INTER-SCHOOL QUIZ COMPETITION." Write your feelings on a page of your diary, the night before the competition.

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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 some students not take interest even short text? (02)
- How will a large vocabulary help you in communication? (02)
- Give past participle and present participle forms of the verb "stop". (02)
- Find a word of the same meaning from above passage for each of the following words: (04)
☆ troubled ☆ cause ☆ press ☆ condition
- Write a Summary of the above passage. (05)

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COMPREHENSIVE EXAMINATION 2023-24

URDU (COMPULSORY) S.S.C. PART-I (SCIENCE GROUP)

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



کل نشانات: ۷۵

اردو (لازمی) نویں جماعت (سائنس)

کل وقت: ۳ گھنٹے

حصہ "الف" (لازمی) (کثیر الانتخابی سوالات)

(۱۵)

سوال نمبر: دیے ہوئے ممکنہ جوابات میں سے ہر ایک کے لئے درست جواب کا انتخاب کیجیے۔

۱. جریر بن عبداللہؓ کو دیکھ کر آپ ﷺ مسکرا دیا کرتے تھے۔

☆ مروت کی وجہ سے

☆ دوستی کی وجہ سے

☆ محبت کی وجہ سے

☆ رشتہ داری کی وجہ سے

۲. ادب اور تعظیم اور رعایت دنیا کی بہبود اور کاروائی کے لئے ناگزیر ہیں۔ یہ عبارت لی گئی ہے سبق۔۔۔۔۔ سے

☆ رشتہ ناتا

☆ قومی ہمدردی

☆ اونہ

☆ تشکیل پاکستان

۳. سبق قومی ہمدردی کے مصنف کا نام ہے۔

☆ مولانا الطاف حسین حالی

☆ منشی پریم چند

☆ مولانا محمد حسین آزاد

☆ ڈاکٹر غلام مصطفیٰ خان

۴. بڑھا پادورِ ثانی ہوا کرتا ہے۔

☆ جوانی کا

☆ بلوغت کا

☆ طفولیت کا

☆ بچپن کا

۵. سبق سیانا بادشاہ کے مصنف ہیں۔

☆ منشی پریم چند

☆ ڈاکٹر نبی بخش خان

☆ مولوی عبدالحق

☆ مرزا ادیب

۶. بدھ رام کی چھوٹی لڑکی کا نام تھا۔

☆ بھولی

☆ بیٹا

☆ گڑیا

☆ لاڈلی

۷. لفظ ”ظلم“ کا اسم مفعول ہے۔

☆ ظالمانہ

☆ ظلم و ستم

☆ ظالم

☆ مظلوم

۸. اسلام کی سر بلندی کے لئے کھڑے ہوئے۔

☆ مولانا محمد علی جوہر

☆ مولانا شوکت علی جوہر

☆ حضرت مجدد الف ثانی

☆ سر سید احمد خان

۹. میر انیس کی نظم میں گرمی کا ذکر ہے۔

☆ کربلا کی

☆ مکے کی

☆ دمشق کی

☆ کونے کی

۱۰. انہیں بچوں کا شاعر کہا جاتا ہے۔

☆ اسماعیل میرٹھی کو

☆ ناصر کاظمی کو

☆ ساقی جاوید کو

☆ علامہ اقبال کو

۱۱. ڈاکٹر صاحب کو آدمی پرکھنے میں بھی تھا۔

☆ کمال

☆ جمال

☆ خیال

☆ اندازہ

۱۲. رشتہ ایک پیوند ہے۔

☆ مصنوعی

☆ خدائی

☆ لازمی

☆ دنیاوی

۱۳. ”آپ حیات“، ”نیرنگ خیال“، ”قصہ ہند“ سے جس شخصیت کا خیال ذہن میں آتا ہے۔ وہ ہیں

☆ قدرت اللہ شہاب

☆ محمد حسین آزاد

☆ ڈاکٹر نبی بخش خان بلوچ

☆ منشی پریم چند

۱۴. بلبل کو ”باغبانوں سے نہ صیاد سے گلہ“ دوسرا مصرع لکھ کر شعر مکمل کیجئے۔

☆ دو گز زمین بھی نہ ملی کوئے یار میں

☆ یہ بھی گلوں کے ساتھ پلے ہیں بہار میں

☆ قسمت میں قید لکھی تھی فصل بہار میں

☆ اتنی جگہ کہاں دل داغدار میں

۱۵. بلبل بستان مصطفیٰ ﷺ سے مراد ہے۔

☆ نعت گو شاعر

☆ خوش الحان بلبل

☆ باغ کا بلبل

☆ نعتیہ کلام

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کل نشانات: ۳۰

حصہ "ب" ("مختصر جواب کے سوالات")

(۶)

سوال نمبر ۲: درج ذیل میں سے کسی دو کے مختصر جوابات تحریر کریں۔

۱. حضرت عتبان بن مالک نے آنحضرت ﷺ سے کیا درخواست کی تھی؟

۲. دنیا میں قومیت کی تشکیل کے دو بنیادی نظریے کون سے ہیں۔

۳. قانون ادب سے کیا مراد ہے؟ یا طالب علموں کے "اونہہ" کرنے کی وجوہات تحریر کیجیے۔

۴. ساہوکار نے اپنے بیٹوں میں ملکیت کس طرح تقسیم کی؟

۵. دنیا کی سب سے مشہور اور اہم لائبریری میں کیا کیا شاہکار موجود ہیں؟

۶. نام دیو کو بچوں کے علاج میں کیسے مہارت حاصل ہوئی؟

۷. شاہ زمانی بیگم نے حسن آراء کی تعلیم کے بارے میں چھوٹی بہن کو کیا مشورہ دیا؟

(۵)

سوال نمبر ۳: درج ذیل اسباق میں سے کسی ایک سبق کا مرکزی خیال یا خلاصہ مصنف کے حوالے کیساتھ تحریر کریں۔

☆ بوڑھی کاکی ☆ اخلاق نبوی ﷺ

(۵)

سوال نمبر ۴: مندرجہ ذیل میں سے کسی ایک نظم کا خلاصہ یا مرکزی خیال شاعر کے حوالے کے ساتھ تحریر کریں۔

☆ برسات کا تماشا ☆ دنیائے اسلام

(۶)

سوال نمبر ۵: مندرجہ ذیل میں سے کسی دو شعری اصطلاحات کی تعریف کیجیے۔

☆ ردیف ☆ مقطع ☆ تضاد ☆ استعارہ

☆ قافیہ ☆ مجاز مرسل ☆ کنایہ ☆ بند

یا

مندرجہ ذیل میں سے دو اصناف ادب کی تعریف مثالوں کے ساتھ کیجیے۔

☆ ناول ☆ ڈرامہ ☆ مضمون ☆ سفر نامہ

☆ آپ بیتی ☆ تخلص ☆ افسانہ ☆ مرثیہ

(۴)

سوال نمبر ۶ (الف): مندرجہ ذیل میں سے کسی دو کی تعریف مثالوں کے ساتھ تحریر کیجیے۔

☆ سابقہ ☆ لاحقہ ☆ روزمرہ ☆ جملہ فعلیہ

☆ مرکب تام ☆ اسم مکبر

یا

مندرجہ ذیل میں سے مکر اور مصغرا لگ لگ کیجیے (کوئی چار)

☆ صندوق ☆ کلباڑی ☆ دیگ ☆ صندوق

☆ چمٹا ☆ کلباڑا ☆ دیگی ☆ چمٹا

☆ ڈبیا ☆ کڑاہی ☆ ڈبہ ☆ چمٹی

یا

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مندرجہ ذیل میں سے سابقہ لائق الگ الگ کیجئے۔

☆ بد نصیب ☆ داغ دار ☆ بد قسمت ☆ پائے دار
☆ لاعلاج ☆ شکر گزار

سوال نمبر ۶ (ب): مندرجہ ذیل میں سے کسی چار الفاظ و محاورات کو اپنے جملوں میں استعمال کیجئے۔

☆ جم غفیر ☆ اشتہا ☆ ناک کٹوانا ☆ بھنڈارے
☆ نام بیچنا ☆ سبز باغ دکھانا ☆ دور افتادہ ☆ سرعت

کل نشانات: ۳۰ حصہ "ج" (بیانیہ جواب کے سوالات)

سوال نمبر ۷: سیاق و سباق کے حوالے کے ساتھ مندرجہ ذیل عبارت کی تشریح سلیس اور با محاورہ زبان میں کیجئے۔

(۸) تیرے ہی شاداب اور سرسبز باغ سے ہر ایک کو محبت کا پھل ملتا ہے۔ تیرے ہی پاس ہر درد کی دوا ہے تجھی سے ہر ایک رنج میں آسودگی ہے۔ عقل کے درمیاں جنگوں میں بھٹکتے بھٹکتے تھکا ہوا مسافر تیرے ہی گھنے باغ کے سرسبز درختوں کے سائے کو ڈھونڈتا ہے۔ وہاں کی ٹھنڈی ہوا، خوش الحان جانوروں کے راگ بہتی نہروں کی لہریں اس کے دل کو راحت دیتی ہے۔

یا

یہاں یہ سمجھ لینا ضروری ہے کہ کہ دنیا میں قومیت کی تشکیل کی دو بنیادیں ہیں۔ ایک جو مغربی مفکرین نے قائم کی ہے۔ دوسری وہ جو رسول مقبول ﷺ کی قائم کی ہوئی ہے۔ اہل مغرب نے خاندانی، نسلی اور قبائلی بنیادوں میں ذرا وسعت پیدا کر کے قومیت کی بنیادیں جغرافیائی حدود پر استوار کیں اور کہا کہ قوم وطن سے بنتی ہے اس نظریہ کی وجہ سے دنیا کے انسانوں کے درمیان تباہی کا جو دروازہ کھلا وہ دو عالمی جنگوں کے ہونے سے بخوبی ظاہر ہے۔

یا

سیاق و سباق کے حوالوں کیساتھ مندرجہ ذیل میں سے کسی دو جملوں کی تشریح کیجئے۔

۱. اول مرتبہ بزرگی کا دنیا میں خدا کا ہے جس نے تمہیں پیدا کیا ہے اور اس دنیا کو پیدا کیا جو تمہاری ضروریات سے مالا مال ہے۔
۲. دنیا کا دستور ہے کوئی فرد بشر رنج سے خالی نہیں۔
۳. ایک انسان کی آنکھ ان نظاروں کا مشاہدہ کرتی ہے جو ڈپٹی کمشنر کی آنکھ کو نصیب نہیں ہوتا۔
۴. اسے کام سے سچا لگاؤ تھا اور اسی میں اسکی جیت تھی۔

سوال نمبر ۸: اپنے دوست کے نام ایک خط لکھئے جس میں اسے بتائیے کہ شجر کاری کی ماحولیاتی آلودگی سے بچنے کے لیے کتنی ضرورت ہے۔

یا

کسی اخبار کے مدیر کے نام ایک مراسلہ تحریر کیجئے جس میں شہر میں صفائی کے ناقص انتظام کی طرف اعلیٰ حکام کی توجہ دلاتے ہوئے تجاویز بھی پیش کیجئے۔

سوال نمبر ۹: مندرجہ ذیل اشعار میں سے کسی تین کی تشریح شاعر کے مختصر تعارف کیساتھ کیجئے۔

(۶)

۱۔ جو تجھ بن نہ جینے کا کہتے تھے ہم
سو اس عہد کو اب وفا کر چلے

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- ۲۔ نہ گور سکندر نہ قبر دارا
مٹے نامیوں کے نشان کیسے کیسے
- ۳۔ رہی نہ طاقت گفتار اور اگر ہو بھی
تو کس امید پر کیسے کہ آرزو کیا ہے؟
- ۴۔ کیا راہ بدلنے کا گلہ ہم سفروں سے
جس راہ سے چلے تیرے در و بام ہی آئے
- ۵۔ بلبل کو باغبان سے نہ صیاد سے گلہ
قسمت میں قید لکھی تھی فصل بہار میں

یا

نظم کے عنوان اور شاعر کے حوالے کے ساتھ مندرجہ ذیل جز کی تشریح کیجئے۔

نگاہیں مضطرب ، ہلکا تبسم روئے زیبا پر
تصور مطمئن تھا مرضی، عرش معلیٰ پر
ہوا ارشاد اے غم خجستہ نام بسم اللہ
خدا حافظ ہے کیجئے نصرت اسلام بسم اللہ

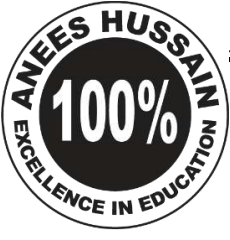
- سوال نمبر ۱۰: مندرجہ ذیل میں سے کسی ایک عنوان پر کم از کم دو صفحات پر مشتمل مضمون لکھیے۔
- ☆ میری پسندیدہ شخصیت ☆ شجر کاری کی اہمیت ☆ پاکستان کے موجودہ مسائل اور ہمارا قومی کردار

یا

مولانا شبلی نعمانی۔۔۔۔۔ یا۔۔۔۔۔ علامہ اقبال میں سے کسی ایک شخصیت کے حالات زندگی اور ادبی کارنامے بیان کیجئے۔۔

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کل نشانات: ۷۵

اسلامیات (لازمی) نویں جماعت (سائنس)
”حصہ الف“ (لازمی) کثیر الانتخابی سوالات

کل وقت: ۳ گھنٹے

(۱۵)

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

- i. انجیل ان پیغمبر پر نازل ہوئی۔
☆ حضرت عیسیٰ ☆ حضرت موسیٰ ☆ حضرت داؤد ☆ حضرت محمد ﷺ
- ii. قرآن مجید کی کل آیات یہ ہیں۔
☆ ۲۳۶ ☆ ۶۶۶۶ ☆ ۷۲۳۶ ☆ ۸۲۳۶
- iii. حضرت آدمؑ سے نبوت کا سلسلہ شروع ہوا وہ تکمیل پر پہنچا۔
☆ حضرت موسیٰ ☆ حضرت عیسیٰ ☆ حضرت ابراہیم ☆ حضرت محمد ﷺ
- iv. خبر دینے والے کو کہا جاتا ہے۔
☆ خبر فرشتہ ☆ پیغمبر ☆ رسول ☆ نبی
- v. ازواج کا مطلب یہ ہے۔
☆ بہنیں ☆ بھابھیاں ☆ بیویاں ☆ بیٹیاں
- vi. اس نے علم کی قدر و قیمت بتائی۔
☆ اسلام ☆ بت پرستی ☆ شیطان ☆ عقیدت
- vii. اے میرے رب میرے علم میں فرما۔
☆ برکت ☆ ثواب ☆ اضافہ ☆ فائدہ
- viii. جہاد عربی زبان کا لفظ ہے جو اس لفظ سے ماخوذ ہے۔
☆ جہد ☆ عہد ☆ لہد ☆ صمد
- ix. جہاد کی اتنی اقسام ہیں۔
☆ دو ☆ تین ☆ چار ☆ پانچ
- x. اطہار کے معنی یہ ہیں
☆ پاکیزہ ☆ سادگی ☆ ایمان ☆ شرافت
- xi. حضرت امام حسینؑ نے زندگی میں اتنے حج کیے:
☆ ۲۲ ☆ ۲۳ ☆ ۲۴ ☆ ۲۵
- xii. حضرت ابو عبیدہ بن جراح کا نام تھا۔
☆ عمر ☆ عمران ☆ عام ☆ ہاشم
- xiii. یہ جابر بن حیان کے استادوں میں شامل ہیں۔
☆ امام شافعی ☆ امام حنیفہ ☆ امام طوسی ☆ امام جعفر صادق
- xiv. مسلم سائنسدان جابر بن حیان اس لقب سے مشہور ہیں۔
☆ بابائے حیاتیات ☆ بابائے نفسیات ☆ بابائے کیمیا ☆ بابائے فلکیات
- xv. سید محمد راشد بن محمد کا لقب یہ ہے:-
☆ روضہ دہنی ☆ رھی بخش ☆ ابوالحسن ☆ ابوالقاسم

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کل نشانات: ۳۰

"حصہ ب" قرآن وحدیث (مختصر جواب کے سوالات)

(۰۶)

سوال نمبر ۲: درج ذیل قرآنی آیات میں سے کسی بھی ۲ کا صرف ترجمہ تحریر کیجیے:

- i. لِدِّرَجَالٍ نَّصِيبٌ مِّمَّا تَرَكَ الْوَالِدَانِ وَالْأَقْرَبُونَ وَلِلنِّسَاءِ نَصِيبٌ مِّمَّا تَرَكَ الْوَالِدَانِ وَالْأَقْرَبُونَ مِمَّا قَلَّ مِنْهُ أَوْ كَثُرَ نَصِيبًا مَّفْرُوضًا
- ii. هُوَ الَّذِي أَرْسَلَ رَسُولَهُ بِالْهُدَى وَدِينِ الْحَقِّ لِيُظْهِرَهُ عَلَى الدِّينِ كُلِّهِ وَلَوْ كَرِهَ الْمُشْرِكُونَ
- iii. وَأَتُوا النِّسَاءَ صَدَقَاتِهِنَّ نِحْلَةً فَإِنْ طِبْنَ لَكُمْ عَنْ شَيْءٍ مِنْهُ نَفْسًا فَكُلُوهُ هَنَيْئًا مَرِيئًا
- iv. الَّذِينَ إِنْ مَكَنْتُمْ فِي الْأَرْضِ أَقَامُوا الصَّلَاةَ وَآتَوُا الزَّكَاةَ وَآمَرُوا بِالنُّعُوفِ وَنَهَوْا عَنِ الْمُنْكَرِ وَلِلَّهِ عَاقِبَةُ الْأُمُورِ

(۰۶)

سوال نمبر ۳: درج ذیل احادیث نبوی ﷺ میں سے کسی بھی ۲ کا صرف ترجمہ تحریر کیجیے:

- i. مَنْ صَامَ رَمَضَانَ إِيمَانًا وَاحْتِسَابًا غُفِرَ لَهُ مَا تَقَدَّمَ مِنْ ذَنْبِهِ
- ii. طَلَبَ الْعِلْمِ فَرِيضَةٌ عَلَى كُلِّ مُسْلِمٍ وَمُسْلِمَةٍ
- iii. أَكْمَلُ الْمُؤْمِنِينَ إِيمَانًا أَحْسَنُهُمْ خُلُقًا
- iv. إِيَّاكُمْ وَالظَّنَّ، فَإِنَّ الظَّنَّ أَكْذَبُ الْحَدِيثِ

(۱۸)

سوال ۴: ذیل میں دیے گئے سوالات میں سے کسی بھی ۶ کے مختصر جوابات تحریر کیجیے:

- ۱۔ جہاد کے تین مقاصد؟
- ۲۔ کئی اور مدنی سورتوں کا فرق تحریر کریں۔
- ۳۔ عقیدہ توحید کے زندگی پر کوئی تین اثرات؟
- ۴۔ قرآن کریم کے حقوق و آداب بیان کریں/نام تحریر کریں؟
- ۵۔ والدین کا ادب و احترام (تین جملے)؟
- ۶۔ اسلام کی بنیاد کن باتوں پر ہے؟
- ۷۔ بعثت نبوی کے چند مقاصد بیان کریں؟
- ۸۔ عفت و عصمت کا مفہوم کیا ہے۔
- ۹۔ ایک جملے میں تحریر کریں: (i) امہات المؤمنین (ii) عشرہ مبشرہ (iii) رسالت

کل نشانات: ۳۰

"حصہ ج" (بیانیہ جوابات کے سوالات)

(۰۷)

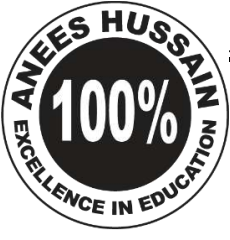
سوال نمبر ۵: درج ذیل قرآنی آیات میں سے کسی بھی ایک کا ترجمہ و تشریح تحریر کیجیے:

(۷) = ۳ + ۴

- i. وَعُبدُوا اللَّهَ وَلَا تُشْرِكُوا بِهِ شَيْئًا وَبِالْوَالِدَيْنِ إِحْسَانًا وَبِذِي الْقُرْبَىٰ وَالْيَتَامَىٰ وَالْمَسْكِينِ وَالْجَارِ ذِي الْقُرْبَىٰ وَالْجَارِ الْجُنُبِ وَالصَّاحِبِ بِالْجَنبِ وَابْنِ السَّبِيلِ وَمَا مَلَكَتْ أَيْمَانُكُمْ إِنَّ اللَّهَ لَا يُحِبُّ مَنْ كَانَ مُخْتَلًا فُخُورًا
- ii. يَا أَيُّهَا الَّذِينَ آمَنُوا لَا تَأْكُلُوا أَمْوَالَكُمْ بَيْنَكُمْ بِالْبَاطِلِ إِلَّا أَنْ تَكُونَ تِجَارَةً عَنْ تَرَاضٍ مِّنْكُمْ وَلَا تَقْتُلُوا أَنْفُسَكُمْ إِنَّ اللَّهَ كَانَ بِكُمْ رَحِيمًا
- iii. مِنْ أَجْلِ ذَلِكَ تَهَمَّ كَتَبْنَا عَلَىٰ بَنِي إِسْرَائِيلَ أَنَّهُ مَنْ قَتَلَ نَفْسًا بِغَيْرِ نَفْسٍ أَوْ فَسَادٍ فِي الْأَرْضِ فَكَأَنَّمَا قَتَلَ النَّاسَ جَمِيعًا وَمَنْ أَحْيَاهَا فَكَأَنَّمَا أَحْيَا النَّاسَ جَمِيعًا وَلَقَدْ جَاءَهُمْ رَسُولنا بِالْبَيِّنَاتِ ثُمَّ إِنَّ كَثِيرًا مِنْهُمْ بَعُدَ ذَلِكَ فِي الْأَرْضِ لَمْ يَسْرِفُونَ

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(۰۷)

سوال نمبر ۶: درج ذیل احادیث نبوی ﷺ میں سے کسی بھی ایک کا ترجمہ و تشریح تحریر کیجیے:

(۷) = ۳ + ۴

i. مَنْ صَامَ رَمَضَانَ إِيمَانًا وَاحْتِسَابًا غُفِرَ لَهُ مَا تَقَدَّمَ مِنْ ذَنْبِهِ

ii. لَا يُؤْمِنُ أَحَدُكُمْ حَتَّىٰ أَكُونَ أَحَبَّ إِلَيْهِ مِنَ وَالِدِهِ وَوَالِدِهِ وَالنَّاسِ أَجْمَعِينَ

iii. أَلَيْدُ الْعُلَيْيَا خَيْرٌ مِنَ الْيَدِ السُّفْلَى

iv.

(۱۶)

سوال ۷: مندرجہ ذیل میں سے کسی دو سوالات کے جوابات تحریر کریں:

۱۔ خصائل و شمائل نبوی ﷺ کی اہمیت و فضیلت بیان کیجیے۔

۲۔ حدیث و سنت پر مضمون تحریر کریں۔

۳۔ قرآن مجید کے فضائل بیان کریں۔

۴۔ مندرجہ ذیل میں سے کسی ایک پر نوٹ تحریر کریں:

(iii) توحید کے تقاضے

(ii) علم کی اہمیت

(i) واقعہ کربلا

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

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



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:

- The multiplicative inverse of $\sqrt{5}$ is**
 - (a) $\sqrt{5}$
 - (b) $\frac{1}{\sqrt{5}}$
 - (c) $\sqrt{-5}$
 - (d) -5
- Base in the natural logarithms is**
 - (a) 10
 - (b) e
 - (c) π
 - (d) 5
- The degree of the $3x^2y + 5y^4 - 10$ is**
 - (a) 4
 - (b) 5
 - (c) 6
 - (d) 10
- In simplified form $\frac{1}{x+y} + \frac{y}{x^2 - y^2} =$**
 - (a) $\frac{y+1}{x^2 - y^2}$
 - (b) $\frac{x}{x^2 - y^2}$
 - (c) $\frac{y}{x^2 - y^2}$
 - (d) $\frac{y - 1}{x^2 - y^2}$
- LCM of $(x - y)^4$ and $(x - y)^3$ is**
 - (a) $x - y$
 - (b) $(x - y)^3$
 - (c) $(x - y)^4$
 - (d) $(x - y)^7$
- Find x if $6^{2x-6} = 1$.**
 - (a) 2
 - (b) 3
 - (c) -3
 - (d) 0
- The point (-3, -4) is located in**
 - (a) 1st quadrant
 - (b) 2nd quadrant
 - (c) 3rd quadrant
 - (d) 4th quadrant
- Solution set of $x^2 + 10x + 24 = 0$ is**
 - (a) $\{-6, -4\}$
 - (b) $\{-6, 4\}$
 - (c) $\{6, 4\}$
 - (d) $\{6, -4\}$
- The diagonal of _____ does not divide it into two congruent triangles**
 - (a) Rectangle
 - (b) Trapezium
 - (c) Square
 - (d) Parallelogram
- Centroid is the common point of intersection of**
 - (a) Medians of a triangle
 - (b) Diagonals of parallelogram
 - (c) Angle bisectors of a triangle
 - (d) Perpendicular bisectors of a triangle
- There are _____ acute angles in an acute angled triangle**
 - (a) one
 - (b) two
 - (c) three
 - (d) none
- Measure of one side of an equilateral triangle is 6cm then other sides are _____ 6cm.**
 - (a) less than
 - (b) greater than
 - (c) equal to
 - (d) none of the above
- A (3,0) and B(0,3) are any two points in the plane then $|\overline{AB}| =$**
 - (a) 6 unit
 - (b) $6\sqrt{2}$ unit
 - (c) $3\sqrt{2}$ unit
 - (d) $2\sqrt{3}$ unit
- The _____ altitudes of an equilateral triangle are congruent**
 - (a) two
 - (b) three
 - (c) four
 - (d) none
- Two linear factors of $x^2 - 15x + 56$ are:**
 - (a) $(x - 7)$ and $(x + 8)$
 - (b) $(x + 7)$ and $(x - 8)$
 - (c) $(x - 7)$ and $(x - 8)$
 - (d) $(x + 7)$ and $(x + 8)$

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



Total Time: 2 1/2 hours

(Marks: 60)

SECTION 'B'

(SHORT-ANSWER QUESTIONS)

(30 Marks)

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

Q2. If $z_1 = 2 - 5i$ and $z_2 = 2 + 3i$, verify that: $\left(\frac{\bar{z}_1}{z_2}\right) = \frac{\bar{\bar{z}_1}}{z_2}$

OR Find the value of x and y if, $4x + 3yi = 16 + 9i$

Q3. Find the value of $\frac{99.87}{8.369 \times 0.785}$ by using logarithms

OR Find the value of $\sqrt{\frac{3.41 \times 37.92}{2.34}}$ by using logarithm

OR Find the number of digits in 4^5 by using logarithms.

Q4. Simplify the following:

$\sqrt{\frac{(216)^{\frac{2}{3}} \times (125)^2}{(0.04)^{-3}}}$ OR $\frac{\sqrt[6]{4 \times 3^3 \times 27} \times \sqrt{60}}{\sqrt{180 \times 3} \times \sqrt[3]{0.25 \times 4} \times \sqrt[4]{9}}$

Q5. Find the value of ab, when $a^3 - b^3 = 16$ and $a - b = 4$

OR Find the value of $a^2 + b^2$, when $a + b = 5$ and $a - b = 3$

OR Find the value of $125x^3 + y^3$ when $5x + y = 13$ and $xy = 10$

Q6. If $x = 3 - 2\sqrt{2}$ then find $x^2 + \frac{1}{x^2}$

OR If $\frac{1}{z} = 7 - 4\sqrt{3}$, then find the value of $z^2 - z^{-2}$

OR If $x = 2 + \sqrt{3}$ then find $x^2 + \frac{1}{x^2}$

Q7. Factorize the following:

$(x^2 - 4x - 5)(x^2 - 4x - 12) - 144$ OR $(x + 2)(x + 3)(x + 5)(x + 4) - 24$

OR $(x - 2)(x - 3)(x + 2)(x + 3) - 2x^2$

Q8. Factorize by using factor theorem

$x^3 + 12x^2 + 44x + 48$ OR $6x^3 + 7x^2 - x - 2$ OR $x^3 + 5x^2 - 4x - 20$

Q9. For what value of 'p' and 'q', the expression $x^4 + 8x^3 + 30x^2 + px + q$ will be a perfect square.

OR What should be subtracted from $9x^6 - 12x^5 + 4x^4 - 18x^3 - 12x^2 + 18$ to make it a perfect square

Q10. Find the solution set and verify the answer $\sqrt{25y - 50} = \sqrt{y - 2}$

OR Find the solution set if, $\left|\frac{2x-5}{5}\right| - 12 = 5$

OR Find the solution set by using quadratic formula.

$10x^2 + 19x - 15 = 0$

Q11. If two angles of a triangle are congruent, then the sides opposite to them are also congruent, prove it.

OR Construct a triangle PQR when $m\overline{PR} = m\overline{QR} = 4.7\text{cm}$ and $m\angle P = 55^\circ$.

OR Any point on the right bisector of a line segment is equidistant from its end points, prove it

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SECTION 'C'

(DETAILED-ANSWER QUESTIONS)

(30 Marks)

Note: Attempt any three questions from this section.

Q12. Factorize the following any four

(i) $b^4 + b^2 + 1$

(ii) $x^2 - y^2 - 4x - 2y + 3$

(iii) $10x^2 - 19xy + 6y^2$

(iv) $x^9 - 8y^9$

(v) $\frac{8}{27}x^3 + 2x^2y + \frac{9}{2}xy^2 + \frac{27}{8}y^3$

(vi) $9a^2b + 18ab^2 - 6ac - 12bc$

Q13. Find the solution set of the following simultaneous equations by graphical method. (Find four ordered pairs for each equation)

$3x - 2y = 13$; $2x + 3y = 13$

OR $3x = 5y - 2$; $3x + 5y = 8$

OR $5 = x + 4y$; $2x + 3y = 0$

Q14. In any correspondence of two triangles, if one side and any two angles of one triangle are congruent to the corresponding side and angles of the other then prove that the two triangles are congruent.

OR If in the correspondence of two right angled triangles, the hypotenuse and one side of one triangle are congruent to the hypotenuse and the corresponding side of the other then prove that the triangles are congruent.

Q15. Show that the points A(2,3), B(8,11), C(0,17) and D(-6, 9) are vertices of a square. Also find its diagonals too.

OR Show that A(2,1), B(5,1) and C(2,6) are the vertices of a right angle.

OR A circle has a diameter between the points A(-3, 4) and B(11,6). Find the centre and diameter of the circle.

Q16. In any triangle, the square on the side opposite to an acute angle is equal to sum of the squares on the sides containing that acute angle diminished by twice the rectangle contained by one of those sides and the projection on it of the other, prove it.

OR If two opposite sides are congruent and the opposite angle are congruent then prove that the diagonals bisect each other.

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PHYSICS PAPER-SSC PART-I (SCIENCE GROUP)

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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. In a liquid, some energetic molecules break free from the surface even when the liquid is too cold for bubbles to form. What is the name of this process?**
 - Boiling
 - Condensation
 - Convection
 - Evaporation
- ii. Ten identical steel balls each of mass 27g are immersed in a measuring cylinder having 20 cm³ of water. The reading of water level rises to 50 cm³. What is the density of the steel?**
 - 0.90 gm/cm³
 - 8.1 gm/cm³
 - 9.0 gm/cm³
 - 13.5 gm/cm³
- iii. The pressure in a fluid depends upon:**
 - Density
 - Depth
 - Gravitational acceleration
 - All of these
- iv. It is not a vector quantity:**
 - Momentum
 - Weight
 - Pressure
 - Torque
- v. Which one of the following is a natural satellite?**
 - Earth
 - Jupiter
 - Moon
 - Mars
- vi. Co-efficient of friction between wood and leather is:**
 - 0.2
 - 0.4
 - 0.6
 - 0.8
- vii. If a gas is heated in a sealed cylinder, then _____ increases.**
 - pressure inside the container
 - average kinetic energy of the particles
 - temperature of the gas
 - all of them
- viii. If two parallel forces have opposite direction, they are called _____ parallel force.**
 - Unlike
 - Like
 - Both
 - None
- ix. 1 hp (horse power) =**
 - 746 watts
 - 550 watts
 - 674 watts
 - 505 watts
- x. An Elasticity of a substance depends on its:**
 - Temperature
 - Size
 - Mass
 - Nature
- xi. Boiling point of pure water is:**
 - 0 K
 - 273 K
 - 373 K
 - 227 K
- xii. The branch of physics concerned with highly ionized atom is called:**
 - Atomic Physics
 - Nuclear Physics.
 - Plasma Physics.
 - Bio Physics.

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Time Duration: 2:30 hours

Marks: 48

SECTION 'B'

(SHORT-ANSWER QUESTIONS)

Marks: 24

Note: Answer any EIGHT (08) questions from this section.

- Q2.** Define Significant Figures and write two Rules for determining significant figures.
OR Write three importance of physics in daily life.
- Q3.** Write three points of differences between **anyone** of them:
i. Speed and Velocity. ii. Renewable Energy Source and Non-Renewable Energy Sources
iii. Mass and Weight iv. g and G v. Heat and Temperature
- Q4.** What is Work? Also derive the equation $W = F \cdot d \cos \theta$
OR Define Heat capacity, Heat of fusion and Real Expansion.
- Q5.** Define Torque (moment of force), write factors on which torque depends also write its unit.
OR State and describe conditions of equilibrium.
- Q6.** Define Elasticity, Hooke's Law and Pascal's Principle.
OR State Boyle's Law and write two applications of "Boyle's law".
- Q7.** State and explain law of conservation of momentum.
OR write three advantages of friction
- Q8.** What is the mass of a solid iron wrecking ball of radius 18 cm? If the density of iron is 7.8 g/cm^3 ?
- Q9.** A car moving on a road with velocity 30 ms^{-1} , when breaks are applied its velocity decreases at a rate of 6 ms^{-2} . Find the distance it will cover before coming to rest.
OR A car starts moving from rest with an acceleration of 5 ms^{-2} . Find out the time to travel 50 m distance.
- Q10.** Horizontal and vertical components of a force are 4 N and 3 N respectively. Find Resultant force.
OR A container holds 30 m^3 of air at a pressure of 150000 Pa. If the volume changed to 10 m^3 by decreasing load on the piston. What will the pressure of the gas become? Assume that its temperature remains constant.
- Q11.** A car is running on a circular part of highway having about 1000 m radius. The mass of car is 600 kg and its velocity is 72 km h^{-1} . Find centripetal force of car.
OR A gun of mass 8 kg fires a bullet of mass 40 g with a velocity of 100 ms^{-1} . Calculate the recoil velocity of gun
- Q12.** Determine the gravitational force of attraction between Urawa and Ayesha standing at a distance of 50 m apart. The mass of Urawa is 60 kg and that of Ayesha is 70 kg.
OR A ball of mass 50 gram is raised to a height of 7m from the ground. Calculate its gravitational potential energy?
- Q13.** How much heat is required to boil 3 kg water which is initially 10°C ?
OR Convert 212°F into Celsius and Kelvin.

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COMPREHENSIVE EXAMINATION 2023-24

PHYSICS PAPER-SSC PART-I (SCIENCE GROUP)

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



SECTION 'C'

(DETAILED-ANSWER QUESTIONS)

Marks: 24

Note: Answer any FOUR (04) questions from this section. All questions carry equal marks.

Q14. What do the symbols V_i & V_f represent? And also derive the equation: $2aS = V_f^2 - V_i^2$

Q15. Define resolution of vector. Explain the method to resolve a vector into its rectangular components. Draw diagram.

Q16. By using Law of Gravitation derive the formula for mass of earth and calculate mass of earth.

OR What is artificial satellite? Prove that the velocity of satellite orbiting around the earth is given by:

$$V = \sqrt{g_h(R + h)}$$

Q17. Define Kinetic Energy and Potential Energy. Also derive the equation $K.E = \frac{1}{2} m v^2$

Q18. Define linear expansion, Co-efficient of linear expansion and derive the relation, $\Delta L = \alpha L \Delta T$

OR Write six differences between Evaporation and Boiling.

Q19. Define momentum. Derive the relation of Momentum in terms of force. $F = \frac{\Delta P}{t}$

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COMPREHENSIVE EXAMINATION 2023-24

CHEMISTRY PAPER-SSC PART-I (SCIENCE GROUP)

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



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:

- It is the empirical formula of glucose:**
 - CH_2O
 - $\text{C}_2\text{H}_4\text{O}_2$
 - $\text{C}_5\text{H}_{10}\text{O}_5$
 - $\text{C}_6\text{H}_{12}\text{O}_6$
- Name the material of screen which used in Rutherford atomic model :**
 - Aluminum foil
 - zinc sulphide
 - sodium sulphide
 - Aluminum sulphide
- The ability to attract shared pair of electron is called:**
 - Electron Affinity
 - Electronegativity
 - Ionization Energy
 - Shielding Effect
- Two fluorine atoms share one electron each in their outermost shell to achieve electronic configuration of:**
 - Xe
 - Ar
 - Kr
 - Ne
- The bond between hydrogen and chlorine in HCl is**
 - Ionic
 - Covalent
 - Polar covalent
 - Non polar covalent
- One atmospheric pressure is equal to:**
 - 10325 Pascal
 - 106075 Pascal
 - 10523 Pascal
 - 101325 Pascal
- Which of the following gas diffuses fastest?**
 - Hydrogen
 - Chlorine
 - Fluorine
 - Helium
- 2 moles of sodium chloride (NaCl) is equal to:**
 - 123 grams
 - 135 grams
 - 158 grams
 - 117 grams
- One faraday**
 - 96600 Faraday
 - 96500 Columb
 - 96560 Faraday
 - 96800 Faraday
- A solution that contain solid solute into liquid solvent is called:**
 - solids in gas
 - liquids in solids
 - solids in solids
 - solids in liquid
- Which of the following ions has the same number of electron as an argon atom of atomic number 18?**
 - Na^+
 - O^{-2}
 - K^+
 - N^{-3}
- In a double bond connecting two atoms there is a sharing of**
 - 1 electrons
 - 2electrons
 - 4 electrons
 - 6 electrons

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CHEMISTRY PAPER-SSC PART-I (SCIENCE GROUP)

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



SECTION 'B'

(SHORT-ANSWER QUESTIONS)

- Q.2 Write down the classification of molecule?
OR How kinetic molecular theory differentiates states of matter? (Two Points of Each State)
- Q.3 Calculate the molar mass of the following: (**any two**):
(i) $\text{Al}_2(\text{SO}_4)_3$ (ii) $\text{K}_4[\text{Fe}(\text{CN})_6]$ (iii) $\text{H}_2\text{S}_2\text{O}_7$ (iv) $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$
OR How many atoms or molecules are there in? 8gm Sulphur, 8.8g of Carbon dioxide
OR Calculate the mass of one atom of Au (Gold) in gram
(Atomic Mass: Al=27, S=32, O=16, K=39, C=12, N=14, Mg=24, H=1, Fe=56, Au=197)
- Q.4 Define vapour pressure and justify that it is visible in a close system only?
Define evaporation. How surface area and temperature are related with the rate of evaporation?
OR Define boiling point. How boiling point is affected by different factors? Explain any one factor.
- Q.5 1.2g of Acetic Acid (CH_3COOH) is dissolved in water to make 200cm^3 of the solution. Find its molarity and pH
OR What volume of 0.5M acid is needed to neutralize 200ml of 4M base?
- Q.6 Define the following? (Any Four)
• Evaporation • Gram Molecular Mass • Dipole – Dipole Forces
• Freezing Point • Diffusion • Boiling Point
OR Write difference between following option **any two** with two points each
• Amorphous Solid and Crystalline Solids
• Polar Covalent Compound and Non – Polar Covalent Compound
• Solution and Suspension and Colloids
• Iron and Sodium
- Q.7 Write down the application of chemistry in our daily life?
OR Name the branches of chemistry and discuss any three branches of chemistry
- Q.8 Write 4 properties of Cathode Rays **OR** What are the limitations of Bohr's Atomic Theory
- Q.9 Draw the structure of isotopes of Hydrogen to justify the definition of isotopes?
- Q.10 Balance the following chemical equation.
(i) $\text{MnO}_2 + \text{HCl} \rightarrow \text{MnCl}_2 + \text{H}_2\text{O} + \text{Cl}_2$
(ii) $\text{PCl}_3 + \text{H}_2\text{O} \rightarrow \text{H}_3\text{PO}_3 + \text{HCl}$
(iii) $\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
- Q.11 Define Types of Covalent bond and Draw the electronic formulae of the following covalent molecules
(i) H_2 (ii) O_2 (iii) N_2 (iv) C_2H_2
- Q.12 It is desired to increase the volume of a fixed amount of gas from 90.5 to 120 cm^3 while holding the pressure constant. What would be the final temperature if initial temperature is 33°C
OR The 800 cm^3 of a gas is enclosed in a container under a pressure of 750 mm. If the volume is reduced to 250 cm^3 , what will be the pressure?
- Q.13 Write down the names of sub atomic particles their masses in a.m.u & gm with their unit charges.
OR Explain how shielding effect influence the periodic trends?

SECTION 'C'

(DETAILED-ANSWER QUESTIONS)

- Q.14 Describe wave particle duality of electron of De Broglie Hypothesis?
OR Describe Rutherford's experiment which led him to the discovery of the nucleus of an atom.
- Q.15 What is period? How many periods are there in the modern periodic table? Describe them.
OR Determine the demarcation of periodic table in to s, p, d and f blocks.
- Q.16 Define ionic bond. Discuss the formation of sodium chloride (NaCl).
OR Justify that atoms of Bose Einstein condensate are super unexcited and super cooled?
- Q.17 State Faraday's First and Second Law of electrolysis.
- Q.18 With the help of a labelled diagram, explain the construction and working of a Dry Battery Cell.
- Q.19 What is electroplating? How steel object can be electroplated with Tin, Zinc and Silver?
OR What is rusting? How can be prevented?

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COMPREHENSIVE EXAMINATION 2023-24

BIOLOGY S.S.C. PART-I (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 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 famous book Al-Nabatiat was written by:**
 - *Bu Ali sina
 - *Jabir Bin Hayan
 - *Abdul Malik
 - * Ibn-e- Nafees
- The scientists who observed Plasmodium first time in human blood is:**
 - *Aristotle
 - *Bu-Ali-Sina
 - *Laveran
 - *None of these
- In sub-phase of diplotene, the _____ process occurs.**
 - *Crossing over
 - *Synapsis
 - *Chiasmata
 - *None of them
- Biodiversity means :**
 - *Variety Within A species
 - *Variety among the species
 - *Variety within a species and among the species
 - *None of these
- There are _____ centrioles present in a sequence.**
 - *27 pairs
 - *12 pairs
 - *14 pairs
 - *22 pairs
- Which of these are responsible for blood clotting?**
 - *Platelets
 - *Erythrocytes
 - *Neutrophils
 - *Basophils
- Non-protein part of enzymes are:**
 - *Inhibitors
 - *Substrate
 - *Cofactors
 - *Coenzymes
- A cell hydrolyses ATP to ADP & inorganic phosphate & almost _____ Kcal energy is released.**
 - *7.3 Kcal
 - *7.4 Kcal
 - *7.2 Kcal
 - *7.5 Kcal
- Oral cavity opens into _____.**
 - *Pharynx
 - *Larynx
 - *Trachea
 - *Bronchi
- Pulmonary veins originate from _____.**
 - *Liver
 - *Lungs
 - *Kidney
 - *Intestine
- Find the correct path of blood circulation.**
 - *Left atrium, left ventricle, lungs, right atrium, right ventricle, body
 - *Right atrium, right ventricle, lungs, left atrium, left ventricle ,body
 - *Left atrium, left ventricle, right atrium, right ventricle, lungs body
 - *Right atrium, lungs, right ventricle, left atrium, body , left ventricle
- Ribosome are composed of _____:**
 - *RNA
 - *Glucose
 - * Protein
 - *Both A&C

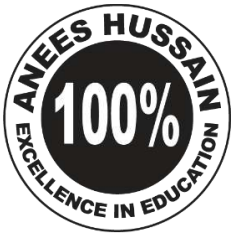
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COMPREHENSIVE EXAMINATION 2023-24

BIOLOGY S.S.C. PART-I (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. Write a short note on Photosynthesis:
OR Describe the types of heterotrophic nutrition:
- Q3. Differentiate between: (Any one)
* Animal cell and Plant cell.
* Light reaction and Dark reaction
* Aerobic and Anaerobic respiration
- Q4. Write short notes on any two of the following.
* Non-Disjunction *Blood * Arteries
- Q5. Write down 6 characteristics of enzymes:
- Q6. Write salient features of cell theory:
OR Describe G1 and S-phase of Interphase:
- Q7. What is Malnutrition and write its types.
OR Draw A neat and labelled diagram of Plant Cell OR Animal Cell:
- Q8. Define the following:
* Photolysis * kwashiorkor * Activation energy
OR * Nucleus *Heterotrophic Nutrition *Diarrhea
- Q9. Why experiment is necessary for theory?
- Q10. Why cell membrane is semi-permeable in nature?
- Q11. Describe Relationship of Biology with Physics and Geography:
- Q12. Define plastids and its types.
- Q13. Draw graph of temperature and pH level affecting the rate of enzymatic activities:

SECTION 'C'

(DETAILED-ANSWER QUESTIONS)

(Marks 24)

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

- Q14. Explain the structure and mechanism of heart in detail:
OR Describe Light Reaction/ Light dependent reaction in detail:
- Q15. Describe any 3 components of human food in detail along with examples:
- Q16. Explain the mechanism of Meiosis I in detail: Along with Diagram:
- Q17. Explain Simple Plant Permanent Tissue in detail:
OR Describe the structure and function of Oral cavity and Small Intestine:
- Q18. Describe Five kingdom classification in detail along with its flow chart:
- Q19. Describe the solution of a biological problem using the case of Malaria..

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COMPREHENSIVE EXAMINATION 2023-24

COMPUTER SCIENCE PAPER-SSC PART-I (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. It is used to store program instructions that are frequently re-referenced by software during operations:

- * primary memory
- * read only memory
- * secondary memory
- * cache memory

ii. It uses ribbon for printing:

- * Impact printer
- * non impact printer
- * ink jet printer
- * laser printer

iii. It allows the user to present a set of data visually:

- * Data
- * monitor
- * charts
- * illustrations

iv. Which of the following function is not performed by operating system?

- * Process data
- * file organization
- * programming
- * operational testing

v. Which of the following is a part of utility programs?

- * computer virus
- * internet explorer
- * hard disk tools
- * all of these

vi. The speed of computer mainly depends upon the speed of :

- * Memory
- * registers
- * cache
- * microprocessor

vii. The insulation and twisting of wires prevent external interference:

- * Coaxile cable
- * twisted pair cable
- * fiber optic cable
- * all of these

viii. Which of the following is a popular blog site?

- * Word processor
- * word press
- * word Art
- * word blog

ix. The minimum monitor capability for installing windows is;

- * 800 x 700
- * 800 x 600
- * 800 x 800
- * 800 x 500

x. Which of the following is an Email application software?

- * Ms Access
- * Ms word
- * Ms Outlook
- * Ms Powerpoint

xi. Which of the following is a primary object of any database system?

- * Field
- * record
- * table
- * file

xii. The correct formula to calculate the percentage in the given table is:

| | G | H | I | J | K | L |
|---|---------|---------|----------|-----------|---------|---|
| 1 | Name | English | Computer | Chemistry | Physics | |
| 2 | Shanzay | 56 | 33 | 65 | 67 | |
| 3 | Marium | 60 | 44 | 54 | 55 | |
| 4 | Abeera | 55 | 55 | 43 | 43 | |
| 5 | Shibra | 23 | 66 | 21 | 34 | |

* $=\frac{H2+I2+J2+K2}{300} \times 100$

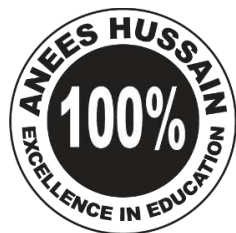
* $=\frac{(H2+I2+J2+K2)}{100} \times 400$

* $=\frac{(H2+I2+J2+K2)}{400} \times 200$

* $=\frac{(H2+I2+J2+K2)}{400} \times 100$

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COMPREHENSIVE EXAMINATION 2023-24

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

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



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. Difference between LAN, MAN and WAN.

Q3. Name and explain three components of Communication System.

Q4. Differentiate between: (any one)

i. Physical Address and Logical Address

ii. Analog Signal and Digital Signal

iii. DBMS and Flat file System

Q5. What do you know about HTML?

Q6. How can you apply formula in MS Excel?

Q7. Define the term Input make a list of all input device and explain any one of them.

Q8. Write down any three characteristics of 5th Generation of Computer.

Q9. Define Software Piracy and Plagiarism

OR Define Intellectual Property Rights and also name some safeguard in terms of IPR.

Q10. What are computer buses?

Q11. Explain any three of the following HTML tags:

*

*

* <p>

* <html>

* <h1> - <h6>

Q12. Write the purpose of the following office automation programs:

i. MS Word

ii. MS Excel

OR Write the full name of the following:

* ANSI

* IEEE

* ISO

* IETF

* ITU

* AI

Q13. Define Operating System with examples.

OR List out all OSI model layers in standard form.

SECTION 'C' (DETAILED-ANSWER QUESTIONS)

(24 Marks)

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

Q14. Describe different types of relationship of Database also describe data types used in database.

Q15. Describe different types of network topologies with the help of diagram in detail.

Q16. Define Modem with its different types.

Q17. Define the following web development terminologies:

* web page

* website

* web hosting

* web server

* home page

* web browsing

Q18. Describe different career of IT in different fields in detail.

Q19. Describe evolution of computer in terms of mechanical era. Mention all the devices which had discovered in this era with inventor, year of invention and function.

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