



# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

## COMPREHENSIVE EXAMINATION 2025-26

### 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. Among other things helmet can save us from  
\*body injury \*muscle injury \*head injury \*knee injury
- ii. A word that is used to add information about a noun is called  
\*adverb \*collective noun \*pronoun \*adjective
- iii. Both riders and \_\_\_\_\_ riders should wear helmets.  
\*pillion \*passenger \*traveler \*companion
- iv. David Bates died in  
\*1867 \*1860 \*1869 \*1870
- v. The Gorakh Hills are the highest place in  
\*Sindh \*K.P. K \*Punjab \*Baluchistan
- vi. Social media should be  
\*ignored \*used with care \*given up \*used everyday
- vii. Some people are born as great leader. The underlined word is a/an \_\_\_\_\_  
\*pronoun \*verb \*noun \*article
- viii. Louis I Newman studied at  
\*Oxford University \*Columbia University  
\*Brown University \*Cambridge University
- ix. Sultan Nasir Uddin earned his living by making \_\_\_\_\_  
\*pots \*caps \*jewelry \*armors
- x. Birds usually \_\_\_\_\_ their nest in the summer  
\*build \*builds \*will build \*were built
- xi. There was more greenery on the \_\_\_\_\_ of the river.  
\*the bank \*left side \*right side \*both sides
- xii. In China, it is mandatory for everyone to work in field or in a:  
\*school \*government office \*restaurant \*factory
- xiii. The trip for Gorakh Hills lasted for:  
\*one day \*two days \*three days \*four days
- xiv. The meaning of disguise is \_\_\_\_\_  
\*cheerful \*change appearance \*fear \*puzzled
- xv. \_\_\_\_\_ means old, torn clothes  
\*smooth \*dearth \*rags \*fine
- xvi. The horse \_\_\_\_\_ when the beggar touched it.  
\*wincing \*snorted \*danced \*cried
- xvii. King Bruce ruled over  
\*England \*Ireland \*Scotland \*Holland
- xviii. Sought is the past form of \_\_\_\_\_.  
\*see \*seek \*search \*Sight
- xix. The synonym of topmost is \_\_\_\_\_.  
\*bottom \*uppermost \*ground \*nearest
- xx. Eliza Cook died in:  
\*1817 \*1888 \*1886 \*1889

NORTH NAZIMABAD CAMPUS I	NORTH NAZIMABAD CAMPUS II	GULSHAN	NORTH KARACHI	BAHADURABAD	GULISTAN-E-JOHAR	MAYMAR	MALIR
C-17 Block I, 5 Star Chowrang, near Imam Clinic, North Nazimabad, Karachi. 021-36631160/36634284 0321-2333114	2nd Floor Saima Paari View, B-pp Block H, North Nazimabad, near Danisil Snacks 021-36641888/36641888 0333-2867446-7	E4, 1 <sup>st</sup> Floor, Maqbool Heights, Main NIPA Chowrang, Above Mobile World, Block-10, Gulshan-e-Iqbal, Karachi 021-34989588/34993726 34993996/0321-9289588	A-985, 2nd Floor, Sector 11-B, main U.P More bus stop, North Karachi, Karachi 021-36932266/0311-2299282 0322-2685558	Mezzanine Floor, Alamgir Rd, near Subway Snacks & Sharfabad Chowrang, Karachi 021-34943939/34921180 0303-2267893	1 <sup>st</sup> Floor, Sarah Grands, Plot No. SB-29, Gulistan-e-Johar, Block 7, Main University Road, Near Safora Chowrang, Karachi 021-34661002/34661003 0332-4977706	C-30, 1 <sup>st</sup> Floor, Sector Z-1, Opposite Mohsin Foods, Gulshan-e-Maymar, Karachi 021-36353355 0314-1222352	Plot No.5, Block -1, Huma Town, Model colony, Jinnah Avenue Road, Malir, Karachi. 021-34115573, 34115574 0330-2166333





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EXCELLENCE IN EDUCATION SINCE 1989

**COMPREHENSIVE EXAMINATION 2025-26**

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

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)

- Why was the poet asked to go down again in the poem "The Voice of God"?
- Why did the King decided to try again?
- What was the dispute between rich man and the beggar?
- Why is China having a rapid progress?
- How can employers hunt the right candidates for their job positions?
- Which chores did our last Prophet S.A.W. use to do?
- How has the social media revolutionized the concept of communication?

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

(20)

**i. (Use Article if needed)**

- This is \_\_\_\_\_ most interesting newspaper.
- I need \_\_\_\_\_ pen that you own.

**ii. (Use Preposition)**

- The teacher handed \_\_\_\_\_ the handouts to the students.
- Every day millions of people travel \_\_\_\_\_ plane.

**iii. (Change the voice)**

- The officer has sent the official documents.
- The thieves were being caught by the police.
- When will he give the money?
- A new servant was hired by me.

**iv. (Change the Narration)**

- She will say to her, "I am working on new project."
- He said, "Have you ever seen my father?"
- They said, "We never smoked."
- She told her sister that she was waiting for her then.

**v. (Formation of Sentences)**

- I bought a new laptop yesterday. (change into negative)
- He did not go to Lahore. (change into interrogative)
- He has completed his assignment. (Change into future Perfect)
- My mother had left the park. (change into present perfect)
- He will be preparing breakfast for her mother. (change into past indefinite)
- we visited naran kaghan and muree last year. (Punctuate & use capital letters)
- Add Suffix to: 'organize'
- Give homophone of: 'berth'

**Q.4 Indicate the kind of ADVERB of the underlined words in each sentence:**

(05)

- You are partly wrong in this matter.
- I think I have visited this place before.
- She talked very politely.
- The teacher ordered us to stand still here.
- The teacher taught us same topic twice.

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# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

## COMPREHENSIVE EXAMINATION 2025-26

### 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 biggest city of Pakistan is :  
\* Islamabad                      \* Lahore                      \* Karachi                      \* Multan
- ii. The first constitution of Pakistan was approved in the year:  
\* 1973                      \* 1962                      \* 1949                      \* 1956
- iii. The first Governor General of Pakistan was:  
\* Ghulam Muhammad                      \* Choudhry Muhammad Ali  
\* Liaquat Ali Khan                      \* Quaid-e-Azam
- iv. The Two Nation Theory is based upon:  
\* Justice                      \* Islam                      \* Values                      \* None of these
- v. In the South West of Pakistan is our neighbouring country:  
\* China                      \* Iran                      \* Afghanistan                      \* India
- vi. Syed Ahmed Barelvi was born in A.D :  
\* 1782                      \* 1789                      \* 1786                      \* 1783
- vii. The highest mountainous peak of Pakistan is :  
\* K2                      \* Mount Everest                      \* Nanga Parbat                      \* Trichmir
- viii. In Pakistan, population-wise the biggest province is:  
\* Punjab                      \* Baluchistan                      \* Sindh                      \* KPK
- ix. The second constitution of Pakistan was approved in the year:  
\* 1973                      \* 1962                      \* 1949                      \* 1956
- x. The total area of Pakistan is:  
\* 796096 sq km                      \* 696096 sq km                      \* 896096 sq km                      \* 596096 sq km
- xi. The total population of Pakistan according to the 1998 census was:  
\* 132.35 milions                      \* 142.35 milions                      \* 152.35 milions                      \* 122.35 milions
- xii. In Pakistan, languages spoken more than:  
\* 30                      \* 20                      \* 15                      \* 10
- xiii. The biggest salt mine in the world is located at :  
\* Karachi                      \* Chaghi                      \* Makarwal                      \* Khewra
- xiv. The real name of Hazrat Shah Wali ullah (May Allah be pleased with him) was :  
\* Qutubuddin                      \* Shariatullah                      \* Shah Abdul Rahim                      \* Shah Khalilullah
- xv. The City of Sialkot is famous for:  
\* Sports goods                      \* Cotton                      \* Food                      \* Carpet

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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 five sentences on Two Nation Theory.
- Q.3: Describe in five sentences the characteristics of culture of Pakistan .
- Q.4: Write the names of neighboring countries of Pakistan.
- Q.5: Write any five objectives of the establishment of All India Muslim League.
- Q.6: Describe any five advantages of forest.
- Q.7: Write the power of Ombudsman. Write in five sentences.
- Q.8: Write five sentences on the importance of census.
- Q.9: Describe defence industries of Pakistan? Write in five sentence.
- Q.10: State any five Islamic provisions of the constitution of 1973.
- Q.11: Describe Welfare State? Write in five sentences.
- Q.12: Write down five salient features of objective resolution.

#### SECTION 'C' (DETAILED-ANSWER QUESTIONS)

(Marks: 30)

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

- Q.13: Write in detail importance of Urdu as a National language.
- Q.14: Describe the importance of geographical location of Pakistan in south-Asia.
- Q.15: Describe the meritorious services of Hazrat Shah Waliullah.
- Q.16: What are the main agricultural problems of Pakistan? Write in detail?
- Q.17: Write a note on any one of the following:
- (i) Principle of Democracy in Islam                      (ii) Pakistan Resolution 1940
- (iii) Information Technology

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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. پاکستان کا سب سے بڑا شہر ہے۔

☆ اسلام آباد ☆ لاہور ☆ کراچی ☆ ملتان

ii. پاکستان کا پہلا آئین اس سن عیسوی میں منظور کیا گیا۔

☆ ۱۹۷۳ ☆ ۱۹۶۲ ☆ ۱۹۴۹ ☆ ۱۹۵۶

iii. پاکستان کے سب سے پہلے گورنر جنرل تھے۔

☆ غلام محمد ☆ چودھری محمد علی ☆ لیاقت علی خان ☆ قائد اعظم

iv. دو قومی نظریہ کی بنیاد اس پر ہے۔

☆ انصاف ☆ اسلام ☆ اقدار ☆ ان میں سے کوئی نہیں

v. پاکستان کے جنوب مغرب میں ہمارا ہمسایہ ملک ہے۔

☆ چین ☆ ایران ☆ افغانستان ☆ بھارت

vi. سید احمد بریلوی کی پیدائش اس سن عیسوی میں ہوئی۔

☆ ۱۷۸۲ ☆ ۱۷۸۹ ☆ ۱۷۸۶ ☆ ۱۷۸۳

vii. پاکستان کی سب سے بڑی پہاڑی چوٹی ہے۔

☆ کے ٹو ☆ ماؤنٹ ایوریسٹ ☆ ناٹگا پربت ☆ تریچ میر

viii. پاکستان میں آبادی کی اکثریت کے لحاظ سے سب سے بڑا صوبہ ہے۔

☆ پنجاب ☆ بلوچستان ☆ سندھ ☆ خیبر پختون خواہ

ix. پاکستان کا دوسرا آئین اس سن عیسوی میں منظور کیا گیا۔

☆ ۱۹۷۳ ☆ ۱۹۶۲ ☆ ۱۹۴۹ ☆ ۱۹۵۶

x. پاکستان کا کل رقبہ ہے۔

☆ ۷۹۶۰۹۶ مربع کلومیٹر ☆ ۶۹۶۰۹۶ مربع کلومیٹر ☆ ۸۹۶۰۹۶ مربع کلومیٹر ☆ ۵۹۶۰۹۶ مربع کلومیٹر

xi. ۱۹۹۸ کی مردم شماری کے مطابق پاکستان کی کل آبادی تھی۔

☆ ۱۳۲.۳۵ ملین ☆ ۱۳۲.۳۵ ملین ☆ ۱۵۲.۳۵ ملین ☆ ۱۲۲.۳۵ ملین

xii. پاکستان میں تقریباً بانیں بولی جاتی ہیں۔

☆ ۳۰ سے زیادہ ☆ ۲۰ سے زیادہ ☆ ۱۵ سے زیادہ ☆ ۱۰ سے زیادہ

xiii. دنیا میں نمک کی سب سے بڑی کان واقع ہے۔

☆ کراچی میں ☆ چانگی میں ☆ مکڑوال میں ☆ کھیوڑہ میں

xiv. حضرت شاہ ولی اللہ (رحمۃ اللہ علیہ) کا اصل نام تھا۔

☆ قطب الدین ☆ شریعت اللہ ☆ شاہ عبدالرحیم ☆ شاہ خلیل اللہ

xv. سیالکوٹ شہر اس صنعت میں مشہور ہے۔

☆ کھیلوں کے سامان میں ☆ کپاس میں ☆ کھانے میں ☆ قالین میں

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(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: دو قومی نظریہ سے کیا مراد ہے؟ پانچ جملوں میں لکھیے۔
- سوال نمبر ۳: پاکستان کی ثقافتی خصوصیات پر کوئی پانچ نکات تحریر کریں۔
- سوال نمبر ۴: پاکستان کے پڑوسی ممالک کے نام تحریر کریں۔
- سوال نمبر ۵: آل انڈیا مسلم لیگ کے قیام کے کوئی پانچ مقاصد لکھیے۔
- سوال نمبر ۶: جنگلات کے پانچ فوائد لکھیے۔
- سوال نمبر ۷: محتسب کے اختیارات پر پانچ جملے لکھیے۔
- سوال نمبر ۸: مردم شماری کی اہمیت پر پانچ جملے لکھیے۔
- سوال نمبر ۹: پاکستان کی صنعتوں کی وضاحت پانچ جملوں میں لکھیے۔
- سوال نمبر ۱۰: ۱۹۷۳ء کے آئین کی کوئی پانچ اسلامی دفعات تحریر کیجیے۔
- سوال نمبر ۱۱: فلاجی مملکت پر پانچ جملے لکھیے۔
- سوال نمبر ۱۲: قرار داد مقاصد کی پانچ اہم خصوصیات بیان کیجیے۔

(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: اردو زبان کی اہمیت پر تفصیل سے وضاحت کیجیے۔
- سوال نمبر ۱۴: جنوبی ایشیا میں پاکستان کے محل وقوع کی اہمیت لکھیے۔
- سوال نمبر ۱۵: حضرت شاہ ولی اللہ کی خدمات کو تفصیل سے بیان کریں۔
- سوال نمبر ۱۶: پاکستان کے خاص زرعی مسائل کیا ہیں؟ تفصیل سے تحریر کیجیے۔
- سوال نمبر ۱۷: مندرجہ ذیل میں سے کسی ایک پر نوٹ لکھیں

(ج) انفارمیشن ٹیکنالوجی

(الف) اسلام میں جمہوریت کے اصول (ب) قرار داد پاکستان ۱۹۷۳

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**COMPREHENSIVE EXAMINATION 2025-2026**

**SINDHI (COMPULSORY) S.S.C. PART-II (SCIENCE GROUP)**

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



مارڪون: ۷۵

وقت: ۰۳ ڪلاڪ

۱۵

## حصو ”الف“ (گهڻ چونڊائتا سوال)

- (i) هدايتون: سڀني سوالن جا جواب گهربل آهن.
- (ii) سوال ڪاپيءَ ۾ نه لکو پرچي مطابق سوال جو صحيح نمبر لکي ان جي سامهون صرف جواب ڏيو.
- (iii) هر سوال هڪ مارڪ جو آهي.
- سوال نمبر ۱: هيٺ ڏنل هر هڪ سوال لاءِ صحيح جواب چونڊيو:
- i. سني رڌ پڇاءَ لاءِ ٽين ضروري ڳالهه آهي .
- ii. صفائي سنڀال مذهب ۾ ان کان بچندا رهجو.
- iii. اعتدال پسندي انتها پسندي هن دور کي سنڌي ادب جو سونهري دور سڏجي ٿو.
- iv. مغلن جي ڪلهوڙن جي حضرت سلمان فارسيءَ کي گورنر مقرر ڪيو ويو.
- v. مڪي مديني حضرت امام جعفر صادق هن سن ۾ ڄاوا.
- vi. ۸۰ هجري ۳۷ هجري نماز دين جو مضبوط آهي.
- vii. ستون قلعو دروازو مان توهان کي مصروف رهڻ جو تاڪيد ٿو ڪريان.
- viii. تعليمي عمل ۾ سياسي عمل ۾ شيخ عبدالعزيز هن اخبار جو مالڪ هو.
- ix. الوحيد ڪاوش نيڪي نظر جي شاعر جو نالو آهي.
- x. سچل سرمست شاه پٽائي سچل سرمست جي مزار راڻيپور جي ڀرسان هن ڳوٺ ۾ آهي.
- xi. درازن خيرپور الله جي رسيءَ کي مضبوطيءَ سان پڪڙيو ۽ نه ٿيو.
- xii. ٽولا ٽولا گروه گروه ترڪيءَ جو عظيم رهنما هو.
- xiii. غازي ڪمال اتاترڪ حسن البناء شهيد سال ۱۹۳۹ع ۾ جلاوطنيءَ کان واپس آيو.
- xiv. مولانا عبيدالله سنڌي مولانا تاج محمود مسافر ورنيڪيولر فائينل پاس ڪري، تعليم کاتي ۾ رٽري ڀرتي ٿيو.
- xv. هيڊ ماسٽر ڪلرڪ امام جعفر صادق رح پنهنجي وقت جا وڏا عالم ۽ هئا.
- اهميت وقت جي پابندي سنڀال خود پسندي شدت پسندي سومرن جي انگريزن جي مڊاين مدائين شام ۱۶۸ هجري ٽنڀو دروازو موبائل ۾ عبرت فتح محمد سيوهاڻي خداآباد فرقه فرقه

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مارڪون: ۳۰

### حصو ”ب“ (مختصر جوابن جا سوال)

(۱۰)

سوال نمبر ۲: ڪن به پنجن (۵) سوالن جا جواب لکو:

- i. حضرت سلمان رضه حق ۽ سچ جي ڳولا لاءِ ڪهڙيون ڪوششون ڪيون؟
- ii. مولانا وفائيءَ کي ڪهڙن بزرگن جي ڪچهريءَ مان فيض حاصل ٿيو؟
- iii. اتحاد نه هئڻ ڪري قوم کي ڪهڙو نقصان ٿيندو؟
- iv. شاعر خدا جو گهر ڪهڙي دل کي ٿو سڏي؟
- v. پاڻ سڳورن ﷺ اسلامي برادريءَ بابت ڪهڙو ارشاد فرمايو؟
- vi. حضرت امام جعفر جا ڪهڙا مشهور شاگرد ٿي گذريا آهن؟
- vii. سرڪاري ملازمن کي قائد اعظم رح ڪهڙي هدايت ڪئي آهي؟
- viii. مولانا وفائيءَ جا ڪهڙا علمي يادگار طور موجود آهن؟

(۴)

سوال نمبر ۳: هيٺ ڏنل لفظن مان ڪن به چئن (۴) لفظن جا جملا لکو:

- ☆ بانهن، ☆ نامور، ☆ پيشوا، ☆ پڇاڻو، ☆ احترام، ☆ چهچتو،  
☆ سوکڙي، ☆ ناماچار

(۴)

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

- ☆ تڪرار، ☆ ڪاميابي، ☆ رهبر، ☆ نقصان، ☆ پيراندي، ☆ علم

(۳)

(ب) هيٺ ڏنل لفظن مان ڪن به ٽن (۳) لفظن جا مذڪر مؤنث لکو:

- ☆ جهرڪي، ☆ ماستر، ☆ ڏاڇي، ☆ مور، ☆ ڊاڪٽر، ☆ ڪنوار

(۳)

(ج) هيٺ ڏنل لفظن مان ڪن به ٽن (۳) لفظن جا واحد جمع لکو:

- ☆ گاڏي، ☆ وڏا، ☆ اک، ☆ مڪيون، ☆ چادر، ☆ چاڀيون

(۲)

(د) هيٺين مان ڪنهن به هڪ جي تعريف مثالن سان لکو:

- ☆ صفت، ☆ فعل، ☆ حرف ندا، ☆ ضمير

(۴)

سوال نمبر ۵: هيٺين مان ڪن به چئن (۴) اصطلاحن جي سنڌي ۾ معنيٰ لکو:

- ☆ ساه صحت ٿيڻ، ☆ لذت چڏڻ، ☆ سر صدقو ڪرڻ، ☆ نالو ڳائجڻ،  
☆ پڇاڻو ٿيڻ، ☆ نقش قدم تي هلڻ

يا

هيٺ ڏنل پيراگراف پڙهي آخر ۾ ڏنل سوالن جا جواب لکو:

ترڪي جي عظيم رهنما غازي ڪمال اتا ترڪ ۽ ننڍي کنڊ پاڪ. هند جي مسلمان رهنما قائداعظم جا مثال اسان جي اکين اڏو آهن ته ڪيئن نه انهن اڳواڻن ارادي جي قوت ۽ پختي يقين سان پنهنجي قومن کي آزادي جي سعادت سان همڪنار ڪيو.

- i. ترڪيءَ جو عظيم رهنما ڪير هو؟
- ii. ننڍي کنڊ پاڪ. هند جو عظيم رهنما ڪير هو؟
- iii. دنيا ۾ ڪنهن جا مثال اسان جي اکين اڏو آهن؟
- iv. قائداعظم اسان کي آزادي جي سعادت سان ڪيئن همڪنار ڪيو؟
- v. قائداعظم قوم جي نالي ڪهڙو پيغام ڏنو؟

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## حصو ”ج“ (تفصيلي جوابن جا سوال) مارڪون: ۳۰

سوال نمبر ۶. هيٺين مان ڪنهن به هڪ عنوان تي مضمون لکو:  
☆ علم جي اهميت ☆ وقت جي پابندي ☆ پسندیده شخصيت

سوال نمبر ۷. پنهنجي اسڪول جي هيڊ ماستر/هيڊ ماستريائي کي شاھ لطيف جو ڏينهن ملهائڻ لاءِ درخواست لکو.  
يا

پنهنجي دوست / ساهيڙيءَ کي خط لکي کيس امتحان ۾ ڪامياب ٿيڻ تي مبارڪ باد ڏيو.

سوال نمبر ۸. هيٺ ڏنل شعرن مان ڪن به ٻن (۲) جي سمجهاڻي نظر ۽ شاعر جي حوالي سان لکو:

1. جن جو وارث تون، الا، سي ڪيئن رهندا نيٺ منهنجا،  
اڳي اُپ خلقيا، پلي خلقياين پون،  
جن جو وارث تون.

2. شال نه وسرين هوت، ٻيو سڀ مون وسري،  
مون کي تائين هئين اڪڙين ۾

3. اسان کي ڏي خدا توفيق، طاقت، همت ۽ حشمت،  
اسان مان ڪي اڳين جهڙا عجب انسان ڪرپيدا،

4. تنهنجي محنت لائي رنگ،  
ڏک وڃن ٿي سڪ جو سنگ.

يا

هيٺ ڏنل بند جي سمجهاڻي نظم ۽ شاعر جي حوالي سان لکو.

حياتيءَ جو مقصد سچو ٿو ٻڌائين،  
بين لاءِ پنهنجو ٿو تن من جلائين،  
جلي جي بين کي سُهائو ڏين ٿا،  
لکين گهور ٿن تان پتنگا ٿين ٿا!

سوال نمبر ۹. (الف) هيٺين مان ڪنهن به هڪ سبق جو خلاصو يا مرڪزي خيال لکو:  
☆ مائي خيرِي ☆ حضرت سلمان فارسي رضه ☆ هنر دولت آهي

(ب) هيٺين مان ڪنهن به هڪ نظر جو مرڪزي خيال لکو:  
☆ نيڪي ☆ دعا ☆ بڻايون سڪ جو ڪو سنسار

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

عربن اجرڪ کي ازرق جي نالي سان سڏيو آهي. ”ازرق“ جي معنيٰ آهي نيرو رنگ. اجرڪ جي تر ۾ نيرو رنگ زياده استعمال ٿيندو آهي. اهو به چيو وڃي ٿو ته ٻنهي جهانن جا سردار حضرت محمد ص جن جيڪا چادر اوڍيندا هئا اها اجرڪ هئي.

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### MATHEMATICS S.S.C. 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 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.  $\omega^{1234567} =$**   
 (a)  $\omega^2$  (b)  $\omega^3$  (c)  $\omega$  (d)  $\omega^5$
- 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. Diagonal of a rectangle measures 6.5cm if its width is 2.5cm, its length is**  
 (a) 9cm (b) 4cm (c) 6cm (d) 3cm
- 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. Diameter divides the circle into \_\_\_\_\_ parts.**  
 (a) two (b) three (c) four (d) all of these
- xiii. The sum of central angles of all the arcs of a circle is \_\_\_\_\_**  
 (a)  $90^\circ$  (b)  $180^\circ$  (c)  $360^\circ$  (d)  $1000^\circ$
- 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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# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

**COMPREHENSIVE EXAMINATION 2025-2026**

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

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  $U = \{x|x \in N \wedge 1 \leq x \leq 10\}$ ,  $A = \{1,2,3,4,5\}$ ,  $B = \{1,3,5,7\}$  then

Prove any one condition of De-Morgan's law.

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

OR If  $P = \{a,b,c\}$ ,  $Q = \{x,y,z\}$  and  $R = \{p,q,r,s\}$  then find ;

(i) a function  $h$  from  $P$  to  $R$  (Injective)

(ii) a function  $h$  from  $Q$  to  $P$  (bijective)

Q3. If  $a:b = c:d = e:f$  then show that:

$$\frac{(a+c+e)^3}{(b+d+f)^3} \text{ OR } (a^2 + c^2 + e^2)(b^2 + d^2 + f^2) = (ab + cd + ef)^2 \text{ OR } \frac{a^4b^2 + a^2e^2 - e^4f}{b^6 + b^2f^2 - f^5} = \frac{a^4}{b^4}$$

Solve the following equation by using Componendo and Dividendo theorem

$$\frac{(x+3)^2 - (x-5)^2}{(x+3)^2 + (x-5)^2} = \frac{4}{5} \text{ OR } \frac{\sqrt{x+5} - \sqrt{x-5}}{\sqrt{x+5} + \sqrt{x-5}} = \frac{1}{10} \text{ (also verify your answer)}$$

Q4. Prove that:

$$\cos^4\theta - \sin^4\theta = \cos^2\theta - \sin^2\theta \text{ OR } \sqrt{\frac{\sec\theta + 1}{\sec\theta - 1}} = \frac{\sec\theta + 1}{\tan\theta}$$

$$\text{OR } \frac{1 + \sec\theta}{1 - \sec\theta} = \frac{\sin\theta + \tan\theta}{\sin\theta - \tan\theta} \text{ OR } \frac{\cot\theta + \operatorname{cosec}\theta}{\sin\theta + \tan\theta} = \operatorname{cosec}\theta \cot\theta$$

OR The angle of elevation of the top of electric pole from a point on the ground 18 meter away from its base is  $30^\circ$ . Find the height of the electric pole.

Q5. If a point is on the rim of a 21cm diameter fly wheel travels 5040 meters per minute through, how many radian does a wheel turn in a second?

OR If  $\sin\theta = \frac{3}{4}$  then find the remaining trigonometric ratios if  $\cos\theta$  is positive.

Q6. Find the cube root of. -27 OR 216 OR 64

OR Prove the following:

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

OR If  $\alpha, \beta$  are the roots of the equation  $px^2 + qx + q = 0$ ,  $p \neq 0$ , find value of  $\sqrt{\frac{\alpha}{\beta}} + \sqrt{\frac{\beta}{\alpha}}$ .

OR If  $\alpha, \beta$  are the roots of the equation  $x^2 - 5x + 6 = 0$ , form the equation whose roots are  $2\alpha + 1, 2\beta + 1$

OR Find  $m$  if equation of roots are equal  $(m+1)x^2 + 2(m+3)x + 2m+3 = 0$ , provided  $m \neq -1$

Q7. Resolve into partial fractions

$$\frac{x^2 - 3x + 6}{x(x-2)(x-1)} \text{ OR } \frac{3x^2 - 2x^2 - 16x + 20}{(x-2)(x+2)} \text{ OR } \frac{x^2 + 7x + 3}{x^2(x+3)} \text{ OR } \frac{x^2 + 9x + 8}{x^2 + x - 6} \text{ OR } \frac{2x + 3}{(x-2)^2}$$

Q8. 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  $3x + 2y = 10$ ;  $-6x + 4y = 4$

OR Verify  $A(\operatorname{adj} A) = |A|I$ , where  $A = \begin{bmatrix} 2 & 3 \\ -4 & -6 \end{bmatrix}$ .

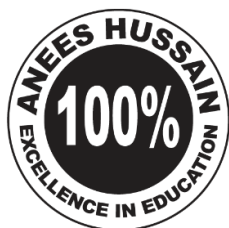
Q9. Two tangents, drawn to a circle from a point outside it, are equal in length, prove it.

OR If two arcs of a circle are congruent then the corresponding chords are equal, prove it .

OR Equal chords of a circle (or two circles) subtend equal angles at the center, prove it.

NORTH NAZIMABAD CAMPUS I	NORTH NAZIMABAD CAMPUS II	GULSHAN	NORTH KARACHI	BAHADURABAD	GULISTAN-E-JOHAR	MAYMAR	MALIR
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# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

**COMPREHENSIVE EXAMINATION 2025-2026**

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

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



**Q10.** 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** The marks obtained by students in a subject out of 50 are given in the following grouped table, Find mode of given data set .

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

**OR** Find Harmonic Mean Or Airthematic Mean of given data set:

Mass (Kg)	7.1- 7.3	7.4-7.6	7.7-7.9	8.0-8.2	8.3-8.5
No of Blocks	5	8	12	14	11

**Q11.** Find the Variance OR Standard Deviation of no of absentees in a class for last seven days : 3 , 5 , 3 , 2 , 4 , 1 , 8 .

**OR** Find A.M Or H.M of given data set : 3 , 2 , 6 , 10 , 12 , 20 , 25 , 28 , 30.

### SECTION 'C'

#### (DETAILED-ANSWER QUESTIONS)

(30 Marks)

**Note:** Attempt any three questions from this section.

**Q12.** Find the inverse of the matrix  $A = \begin{bmatrix} 9 & 2 & 1 \\ 5 & -1 & 6 \\ 4 & 0 & -2 \end{bmatrix}$  by adjoint method.

**Q13.** In a right angle triangle, the square of the length of hypotenuse is equal to the sum of squares of the length of the other two sides, prove it.

**OR** 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 right angle triangle.

**Q14.** If a line drawn perpendicular to a radial segment of a circle at its outer end point, it is tangent to the circle at that point prove it.

**Q15.** Draw two direct common tangents of two equal circles with centres at points A and B having radius 3 cm Of each circle such that  $m\overline{AB} = 8$  cm , also write steps of construction of it.

**OR** Draw two direct common tangents to the given circles of radius 3.4 cm and 2.1 cm , where distance between their centres is 7.5 cm, also write steps of construction of it.

**OR** Draw a circumcircle of  $\triangle ABC$ , where  $m\overline{AB} = 5.5$ cm ,  $m\overline{AC} = 6$ cm and  $m\angle A = 50^\circ$ , also write steps of construction of it.

**Q16.** A line parallel to one side of a triangle and intersecting the other two sides, divides them proportionally prove it.

**OR** If a line segment intersects the two sides of a triangle in the same ratio then it is parallel to the third side prove it.

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# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

## COMPREHENSIVE EXAMINATION 2025-2026

### PHYSICS PAPER-SSC 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:

- Attempt all Questions from this section.
- 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. 1: Choose the correct answer for each from the given options:**

**i. The type of waves can not travel through a Vacuum are called:**

- \* Sound waves      \* Infrared waves      \* Microwaves      \* X-rays

**ii. ICT stands for:**

- \* Integrated circular Technology      \* Interfacing computer Theories  
\* International computer Technology      \* Information and communication Technology

**iii. If the focal length of convex lens is 20cm. The power of lens is:**

- \*4 Diopter      \*5 Diopter      \*10 Diopter      \*15 Diopter

**iv. Resistance of a conductor does not depend on:**

- \*Length of conductor      \* Area of cross section  
\* Density      \*Resistivity

**v. The Boolean expression of an AND gate is:**

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

**vi. A wave on slinky with frequency of 4Hz and wavelength of 0.4m has a speed of:**

- \*1.9 m/sec      \*1.6 m/sec      \*18 m/sec      \*0.5 m/sec

**vii. The half life of Radon  ${}_{86}\text{Rn}^{222}$  is:**

- \*8.33 days      \*3.83 days      \*38.3 days      \*3.38 days

**viii. The turns ratio of a transformer is 10. It means:**

- \* $I_s = 10 I_p$       \* $N_p = 10 N_s$       \* $N_s = 10 N_p$       \* $V_s = 10 N_p$

**ix. A resistor having a very low resistance is called:**

- \*Shunt      \*combination      \*Resistor      \*none of these

**x. The value of  $\epsilon_0$  ( $\text{C}^2/\text{N}\cdot\text{m}^2$ ) is:**

- \* $0.885 \times 10^{-12}$       \* $8.885 \times 10^{-12}$       \* $8.85 \times 10^{-12}$       \* $88.5 \times 10^{-12}$

**xi. Branch of Physics which deals with the charges at rest is called:**

- \*Electrostatics      \*Electricity      \*Magnetism      \*Quantum

**xii. Oscillations are damped due to the presence of:**

- \*Linear motion      \*Restoring force      \*Frictional force      \*Mechanical force

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# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

**COMPREHENSIVE EXAMINATION 2025-2026**

**PHYSICS PAPER-SSC PART-II (SCIENCE GROUP)**

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



Time Duration: 2:30 hours

Marks: 48

## SECTION 'B'

### (SHORT-ANSWER QUESTIONS)

Marks: 24

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

- Q2. What are the main features of Rutherford's atomic model?  
 OR What is transformer and on which principle it works?  
 OR Derive the equation :  $\frac{1}{R_e} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
- Q3. Write down two factors on which speed of sound in air depends.  
 OR Derive the equation:  $\frac{1}{c_e} = \frac{1}{c_1} + \frac{1}{c_2} + \frac{1}{c_3}$
- Q4. Write down any three differences between Musical sound and Noise OR Fission and Fusion  
 OR What is an electric power? Derive and explain power dissipation in a resistor  $P = \frac{V^2}{R}$
- Q5. Draw diagrams of OR gate and NOT gate showing output of two inputs.  
 OR Define frequency of wave. Derive the relationship between wave speed, wavelength and frequency.
- Q6. State the heat dissipation law and derive the equation  $H = I^2Rt$ .  
 OR Define Thermionic emission. How emission takes place in Tungsten filament.  
 OR Write three uses of electromagnetic waves.
- Q7. A 1.5m long wire carrying a current of 5A is placed at right angle in a magnetic field of strength 0.05T. Calculate the force exerted on the wire.
- Q8. A concave lens whose focal length is 20 cm forms an image 15cm from lens. Determine the position of object.
- Q9. If 3  $\mu\text{C}$  charge is placed in the electric field intensity  $3.42 \times 10^{10}$  N/C, what will be the force on it?
- Q10. A boy clapped his hands near a wall and heard the Echo after 0.6 sec. what is the distance of the wall from the boy? (speed of sound = 340 m/sec).
- Q11. Calculate the speed of sound in air at 30 °C . Given that the speed of sound at 0 °C is 331m/sec.
- Q12. If a current of 0.35A passes through a bulb for 15 minutes. How much electric charge will pass through the circuit during this time?
- Q13. Calculate the frequency of ultraviolet light with the wavelength of 193nm commonly used in laser eye surgery procedure.

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# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

**COMPREHENSIVE EXAMINATION 2025-2026**

**PHYSICS PAPER-SSC PART-II (SCIENCE GROUP)**

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



## SECTION 'C'

### (DETAILED-ANSWER QUESTIONS)

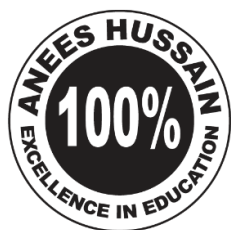
Marks: 24

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

- Q14.** Define Simple Harmonic Motion(SHM). Prove that the motion of a Simple Pendulum is Simple Harmonic motion with diagram.  
**OR** Draw ray diagrams of a convex lens when object is placed at (i) 2F (ii) F (iii) b/w 2F and F.  
**OR** Define compound microscope. With the help of labeled diagram, explain working of a compound Microscope.
- Q15.** Write Geiger-Marsden  $\alpha$ - scattering experiment and its results in detail.  
**OR** State Coulomb's law and derive the equation:  $F = \frac{1}{4\pi\epsilon_0} \times \frac{q_1 q_2}{r^2}$   
**OR** What is electroscope? Write its construction and working.
- Q16.** What is information technology? Also describe its five components of computer based on information system(CBIS).  
**OR** Define Nuclear Fission and Nuclear Fusion reactions, with their equations, explain fission chain reaction with the help of diagram.  
**OR** Explain Faraday's law of electromagnetic induction. Write four factors affecting the magnitude of an induced emf.
- Q17.** What is Cathode Ray Oscilloscope(CRO)? Also describe the basic principle and working with diagram.  
**OR** State and explain Lenz's law of electromagnetic induction. Also derive its mathematical expression.
- Q18.** What is Galvanometer? How it can be converted into an Ammeter and Voltmeter. Draw circuit diagrams.  
**OR** Short sightedness (Myopia) and Long sightedness (Hyperopia) are two common vision defects. Explain their causes and how can they be corrected? Also draw diagrams.
- Q19.** State and explain Ohm's law and also write its three limitations of this law.  
**OR** What is Radioactivity? Write down any two common radiation hazards and six safety measures against radiations.

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# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

## COMPREHENSIVE EXAMINATION 2025-26

### CHEMISTRY PAPER-SSC PART-II (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:

- If  $K_c > K_c$  for a reversible chemical reaction at a given temperature, in which direction will the reaction shift to achieve equilibrium?  
a) Forward                      b) Backward                      c) No shift                      d) Cannot be predicted
- Which of the following reversible reactions has no unit for  $K_c$ ?  
a)  $N_2 + 3H_2 \rightleftharpoons 2NH_3$                       b)  $2SO_2 + O_2 \rightleftharpoons 2SO_3$   
c)  $N_2 + O_2 \rightleftharpoons 2NO$                       d)  $PCl + Cl_2 \rightleftharpoons PCl_5$
- The conjugate acid of water is:  
a)  $OH^-$                       b)  $H_3O^+$                       c)  $H^+$                       d)  $H_2O_2$
- Which of the following is not a composition of buffer?  
a)  $CH_3COOH/CH_3COONa$                       b)  $NH_4OH/NH_4Cl$   
c)  $H_2CO_3/NaHCO_3$                       d)  $HCl/NaOH$
- Identify the ketone amongst the following organic compounds:  
a)  $CH_3CHO$                       b)  $CH_3COOH$                       c)  $CH_3COCH_3$                       d)  $CH_3NH_2$
- Which of the following types of coal has the highest percentage of carbon?  
a) Peat                      b) Bituminous                      c) Anthracite                      d) Lignite
- Which of the following carbohydrates does not undergo hydrolysis?  
a) Sucrose                      b) Cellulose                      c) Fructose                      d) Starch
- Biomolecule which is formed when fatty acid reacts with glycerol is:  
a) Amino acid                      b) Nucleic acid                      c) Lipid                      d) Protein
- Which of the following is a secondary air pollutant?  
a)  $CO_x$                       b)  $SO_x$                       c)  $O_3$                       d)  $NO_x$
- Which of the following is not a bacterial waterborne disease?  
a) Cholera                      b) Hepatitis (A.E.)                      c) Typhoid                      d) All of these
- The error caused by the improper functioning of instruments is:  
a) Systematic                      b) Indeterminate                      c) Determinate                      d) Both a & c
- Which of the following is used as jet fuel?  
a) Kerosene oil                      b) Diesel                      c) Petrol                      d) Fuel oil

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# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

**COMPREHENSIVE EXAMINATION 2025-26**

**CHEMISTRY PAPER-SSC PART-II (SCIENCE GROUP)**

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



Time allowed: 2 ½ Hours

Max. Marks: 48

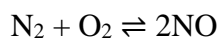
**SECTION 'B'**  
**(SHORT-ANSWER QUESTIONS)**

Q2. Define the following terms:

- a) Catenation                      b) Homologous series                      c) Functional group

Q3. Write any three characteristics of equilibrium constant ( $K_c$ ) **OR** chemical equilibrium.

Q4. In automobile engines, nitrogen and oxygen can react to form nitric oxide (NO), a pollutant:



At 2000K, the  $K_c$  for this reaction is  $4.0 \times 10^{-4}$ . If a sample of exhaust gas at equilibrium contains 0.25M of  $\text{N}_2$  and 0.10M of  $\text{O}_2$ , calculate the molar concentration of the pollutant NO being released into the atmosphere.

Q5. Define isomerism. Draw the possible isomers of pentane with their common & IUPAC names.

**OR** Explain any 03 water borne diseases.

Q6. Calculate the pH of  $2 \times 10^{-2}$  M solution of KOH. ( $\log 2 = 0.3010$ )

Q7. Define amino acid. Discuss how it polymerizes to form protein.

**OR** Enumerate any 03 uses of lipids **OR** nucleic acid.

Q8. Write differences between any one of the following:

- a) Troposphere and stratosphere                      b) DNA and RNA                      c) Oils and Fats

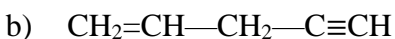
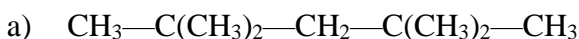
Q9. Describe Lewis acid-base theory with an example.

**OR** What are conjugate acid base-pair? Explain with the help of examples.

Q10. Define error. Describe its two types.

**OR** Define qualitative analysis. Discuss inorganic & organic qualitative analysis with examples.

Q11. Write down the IUPAC names of the following:



Q12. Write down the harmful effects of any one of the following:

- a) Acid rain    b) Global warming

Q13. Give reasons, why? (any two)

- a) The diversity and magnitude of organic compounds are high.  
b) Water is considered as universal solvent.  
c) A preheater is installed at the inlet of the gas chromatograph.

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EXCELLENCE IN EDUCATION SINCE 1989

## COMPREHENSIVE EXAMINATION 2025-26

### CHEMISTRY PAPER-SSC PART-II (SCIENCE GROUP)

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



#### SECTION 'C'

#### (DETAILED-ANSWER QUESTIONS)

- Q14.** State the law of mass action. Derive the expression for equilibrium constant (Kc) for a hypothetical reversible reaction  $Aa + bB \rightleftharpoons cC + dD$ .
- Q15.** What are carbohydrates? Explain the different types of carbohydrates on the basis of functional groups and hydrolysis.
- OR** What are vitamins? Explain their different types with sources to get these and also write down the diseases caused due to their deficiencies.
- Q16.** Define salts. What are its types? Write two methods for the preparation of salts with balanced chemical equations.
- OR** Explain briefly **any two** of the following:
- a) Agricultural waste                      b) House-hold waste                      c) Industrial waste
- Q17.** Describe the process of saponification with the help of flow sheet diagram.
- OR** What is ozone hole? How ozone layer is depleted? Also write its benefits and adverse effects.
- Q18.** What is temporary and permanent hardness of water? Describe the method for the removal of hardness by:
- a) Clark's method                              b) Washing soda
- Q19.** What is chromatography? Explain HPLC **OR** GC with their diagrams.
- OR** Draw the structures of the following organic compounds:
- a) Sec-butyl bromide                              b) Iso-propyl alcohol                              c) Ethyl acetate
- d) Acetylene                                      e) Trimethylamine                              f) Formaldehyde

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# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

## COMPREHENSIVE EXAMINATION 2025-2026

### 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 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 functional unit of kidney is:**
  - \* Neuron
  - \* Alveoli
  - \* Nephron
  - \* All of these
- Voice box in man is called:**
  - \* Pharynx
  - \* Larynx
  - \* Glottis
  - \* Epiglottis
- Which organ is responsible for filtering nitrogenous waste from blood?**
  - \* Liver
  - \* Kidney
  - \* Lung
  - \* Heart
- Transpiration occurs in plants through:**
  - \* Stomata
  - \* Hydrathodes
  - \* Guard cells
  - \* Lenticels
- Spinal cord is covered by a membrane called:**
  - \* Pleural
  - \* Pericardial
  - \* Meninges
  - \* Peritoneum
- The inner most sensory layer of eye is called:**
  - \* Choroid
  - \* Retina
  - \* Conjunction
  - \* Sclera
- The Central nervous system consists of:**
  - \* Neuron
  - \* Spinal Cord
  - \* Brain
  - \* Both spinal cord and brain
- How many pairs of ribs are present in the human chest cavity?**
  - \* 10
  - \* 12
  - \* 19
  - \* 13
- In flowering plants, the process of "Double Fertilization" results in the formation of a diploid zygote and a triploid (3N) structure known as the**
  - \* Radicle
  - \* Endosperm
  - \* Plumule
  - \* Cotyledon
- Oswald Schmeideberg introduced modern:**
  - \* Vaccination
  - \* Antibiotics
  - \* Pharmacology
  - \* Antiseptic
- Which part of the brain is responsible for sensations?**
  - \* Amygdala
  - \* Pons
  - \* Mid-brain
  - \* Hippocampus
- This organ is considered the largest in the human body:**
  - \* Skin
  - \* Lung
  - \* Liver
  - \* Brain

NORTH NAZIMABAD CAMPUS I	NORTH NAZIMABAD CAMPUS II	GULSHAN	NORTH KARACHI	BAHADURABAD	GULISTAN-E-JOHAR	MAYMAR	MALIR
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EXCELLENCE IN EDUCATION SINCE 1989

## COMPREHENSIVE EXAMINATION 2025-2026

### 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. Write three differences between any ONE of the following:  
\* Photosynthesis & Respiration \* Sexual and asexual reproduction \* Epigeal and hypogeal germination.  
**OR** Describe multiple allele with example of blood group.
- Q3. Why nervous coordination is faster than chemical coordination?
- Q4. Write a note on kidney dialysis **OR** paralysis.
- Q5. Explain the drugs obtained from Animals **OR** plants.
- Q6. Describe the discovery of vaccine **OR** Antibiotic.
- Q7. Define myopia and hyperopia.  
**OR** Explain role of skin in cold weather condition.
- Q8. Draw the flow chart showing spermatogenesis or oogenesis.  
**OR** State law of incomplete dominance with suitable example.
- Q9. What is fermentation? Write lactic acid fermentation.  
**OR** Define joint and name its type with example.
- Q10. Explain the process of bone healing in detail step by step.  
**OR** Draw labelled diagram of female reproductive system of Rabbit.
- Q11. Write a Short Note on Acid Rain or greenhouse effect.
- Q12. Describe any ONE of the following along with their symptoms and causes:  
\* Asthma \* Epilepsy \* bronchitis
- Q13. Write short notes on any ONE of the following:  
\* Oxygen Debt \* kidney stone \* Urea formation

### SECTION 'C' (DETAILED-ANSWER QUESTIONS)

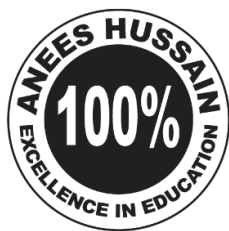
(Marks 24)

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

- Q14. Explain law of independent assortment with suitable example.  
**OR** Describe addictive drugs and describe any two types with example.
- Q15. Explain nitrogen cycle in detail.  
**OR** Describe Darwin's theory in detail.
- Q16. Explain biotic or abiotic components of ecosystem (any three).
- Q17. Write down the process of urine formation.  
**OR** Define endocrine gland and also explain the structure and hormonal function of pancreas or gonads.
- Q18. Explain human brain in detail (any six components).  
**OR** Explain human respiratory system in detail.
- Q19. Draw a net and labelled diagram of any one of the following:  
\* L.S of Kidney \* Respiratory system of Man \* Human Eye \* Structure of Nephron  
**OR** Explain genetic engineering and its uses and also write its six achievements.

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# ANEES HUSSAIN COACHING CLASSES

EXCELLENCE IN EDUCATION SINCE 1989

## COMPREHENSIVE EXAMINATION 2025-26

### 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. What is the primary purpose of a flowchart?**

- \* To debug code
- \* To design user interfaces
- \* To present an algorithm in an easy way
- \* To optimize database queries

**ii. Which data structure has parent and child node?**

- \* Queue
- \* Stack
- \* Tree
- \* Graph

**iii. Which of the following is a characteristic of non-linear data structure?**

- \* Hierarchical structure
- \* It is in zig zag pattern
- \* Sequential access
- \* Complex relationships

**iv. What is the output of the following C++ code: cout<< "\t"; ?**

- \* Newline character
- \* Tab character
- \* Backspace character
- \* Null character

**v. What is the purpose of multi-line comments in C++?**

- \* To execute code
- \* To declare variables
- \* To provide explanation
- \* To define functions

**vi. In which library file getch() is available?**

- \* <iostream>
- \* <stdio.h>
- \* <conio.h>
- \* None of given

**vii. What are for and while loop are?**

- \* Post-test loop
- \* Pre-test loop
- \* Main function
- \* None of given

**viii. Which type error cannot be detected by compiler?**

- \* Syntax
- \* Logical error
- \* Runtime error
- \* None of given

**ix. What is the purpose of C++ programming language?**

- \* Web development
- \* Database management
- \* Movies
- \* System programming and application development

**x. Which of the following is NOT a valid operator in C++?**

- \* +
- \* -
- \* \*
- \* @

**xi. What is the primary function of a programming language?**

- \* To communicate with databases
- \* To design user interfaces
- \* To give instructions to computer
- \* To manage networks

**xii. What will be the output of the given code?**

```
int a=11;
cout<<a++<<++++a;
```

- \* 11 13
- \* 10 11
- \* 12 13
- \* 11 12

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EXCELLENCE IN EDUCATION SINCE 1989

## COMPREHENSIVE EXAMINATION 2025-26

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

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



Time: 2 1/2 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.** Prove the following rules of Boolean algebra

- a).  $A + 1 = 1$       b).  $A + A = A$

**Q3.** Define AND and OR gate.

**Q4.** Define C++.

**Q5.** Write the function of for loop with syntax.

**Q6.** Define escape sequence with 3 types.

**Q7.** Define scratch and sprite.

**Q8.** Find the mistake in the program syntax and rewrite it.

```
cort<> ^Pakistan Zindabad?^
cint??xyz
```

**Q9.** Define language translator and name its types.

**Q10.** Write difference between cin and cout.

**Q11.** Define tree and graph data structures.

**Q12.** Write difference between predefined and user defined function.

**Q13.** Write a program to calculate the volume of a box.

#### SECTION 'C' (DETAILED-ANSWER QUESTIONS)

(24 Marks)

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

**Q14.** Define linear data structure with its types and diagram.

**Q15.** Draw logic circuit diagram of given Boolean expression.

- a.  $Y = \overline{ABC}(A+B)$       b.  $(AB) + (\overline{AB}) + (AB)$

**Q16.** Define operator with their types arithmetic and relational operators.

**Q17.** Define switch, if and while statement.

**Q18.** Define programming language and its types in detail.

**Q19.** Define IDE and its components.

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