





BOARD OF INTERMEDIATE & SECONDARY EDUCATION MALAKAND

بورد آف انظرمیڈیٹ اینڈ سیکنڈری ایجوکیشن ملاکنڈ

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انتياه:

بورڈ کے قوانین کے مطابق اس صفحے کے علاوہ جوابی کاپی کے اندر اپنا نام، رول نمبر لکھنا یا کوئی شناختی علامت بنانا سخت ممنوع ہے اور قابل سزا ہے۔ رول نمبر صرف اس صفحے کے مختص کردہ جگہ پر ہی لکھیں۔

CAUTION: Do not write your name, roll number or any identification mark anywhere in Answer Booklet except at the allocated places as it is punishable under the board rules. Roll number should be written at the allocated place only at this page.

	Signature of Superintender		e Box	
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طالب علموں کے لیے ہدایات **INSTRUCTIONS FOR CANDIDATES**

ان ہدایات کو بغور پڑھنا اور ان پر عمل کرنا لازمی ہے۔ It is mandatory to read and follow the instructions given below:

Important Instructions:

- 1. Use only Black Ballpen to fill bubbles. DO NOT use Marker, Pencil or Ink pen for bubble
- 2. Roll number should be written in the number form on the title page are correctly filled in bubbles.
- 3. There is One (01) page for each question in Section B and Three (0 pages) r each question in
- 4. Give answer of each question at its allocated space.
- 5. Length of an answer must NOT exceed the area allocated or each question.6. If you are not attempting any question DO NOT cross or write anything in the allocated space and leave the page blank.
- 7. No page should be torn-off from the Answer Book
- 8. Answer Booklet must be returned to the invigilator.
- 9. Incase of any confusion/ambiguity you may confusion/amb at the vigilator.
- 10. While writing your answer DO NOT leave space

خصوصی بدایات:

- ک پین کا ہرگز اُستعمال نہ کریں۔ 1. دائرے بھرنے کے لیے صرف کالے بال پین کا استعمال کریں۔
 - د. رول نمبر کو مختص کرده جگه پر اعداد کی صورت میں لکھیں اور
- کشن (سی) کے ہر سوال کے لیے تین (۰۳) سیکشن (بی) کے ہر سوال کے جواب کے لیے ایک (۰۱) صفحہ مخا صفحات مختص کیے گئے ہیں۔
 - 4. ہر سوال کا جواب اس کی مختص کردہ جگہ پر ہی لکھیں۔
 - کسی بھی سوال کا جواب اس کی مختص کردہ جگہ سے زیادہ نہیں ہونا چاہئے
- 6. کوئی سوال نہ کرنے کی صورت میں مختص کی گئ جگہ کو خالی چھوڑ دیں اور ک
 - 7. جوابی کاپی کا کوئی بھی صفحہ پھاڑنے کی ممانعت ہے۔
 - 8. امتحان کے آخر میں جوابی کاپی کو نگران امتحان کے حوالے کر دیں۔
 - 9. کسی بھی قسم کے ابہام کی صورت میں نگران امتحان سے رابطہ کریں۔
 - 10. جواب لکھتے ہوۓ لائن چھوڑ کر مت لکھیں۔

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Section (C)

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Section (C) Question - 12

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Section (C) Question - 12

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Page 2 of 3

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Section (C) Question - 13
Page 3 of 3

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Section (C) Question - 14

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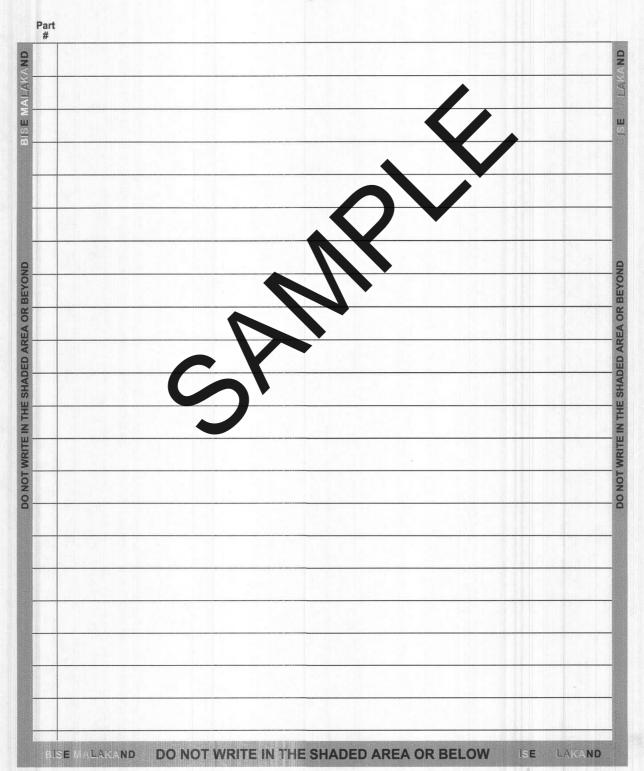




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Section (C) Question - 15

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Section (C)

Question - 15

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PHYSICS (New Course)

9th (Fresh/Reappear)

Note: Time allowed for Section - B and Section - C is 2 Hours and 45 minutes.

Section - B

Marks: 32

Answer any EIGHT parts. Each part carries FOUR marks.

- Q.1 Write the general rules for rounding off the significant figures in results.
- Q.2 Define the following terms and write their mathematical forms.
 - (a) Average acceleration
- (b) Instantaneous acceleration
- Q.3 A body of mass 7kg is accelerating at 3m/sec², calculate the change in momentum over a period of 10 sec.
- Q.4 Explain the law of conservation of momentum, also define isolated system.
- Q.5 Differentiate between the concept of a couple and force with the help of example.
- Q.6 A sea saw is balanced by a 30 N weight at 3m from one side of the pivot point and an unknown weight at 1.5 m from pivot point on the other side. Find the unknown weight using principle of moments.
- Q.7 Explain Newton's law of universal gravitation.
- Q.8 Define Kinetic Energy. Which would have a greater effect on the kinetic energy of an object, doubling the mass or doubling the velocity?
- Q.9 Calculate the power of an electric motor that completes 30 0 joules of work in 2 minutes.
- Q.10 An object has weight 17 N in air, its weight is found to be 13 N when immersed in water. Calculate the density of the object.
- Q.11 Explain the mode of transfer of real in solids

Section - C

Marks: 21

Note: Attempt any THREE questions All questions carry equal marks.

- Q-12 (a) Derive 2nd equation of motion using velocity time graph.
 - (b) A bullet accelerates the length of the barrel of a gun 0.750m long with magnitude of 5.5×10^5 m/s². With what speed does the bullet exit the barrel?
- Q-13 (a) Calculate the mass of Earth using law of universal gravitation.
 - (b) Determine the gravitational force between two bodies of masses, 3×10^3 kg and 9×10^2 kg, when they are separated by 5 m. (G = 6.67×10^{-11} Nm²kg⁻²)
- Q-14 (a) How does pressure vary with area and force, explain providing two examples.
 - (b) The weight of a girl is 580 N, she wears high heels with area of sole 0.0005 m². Calculate the pressure exerted on her foot by the ground.
- Q-15 (a) Provide two examples to illustrate how cooling is produced by evaporation?
 - (b) Calculate the heat absorbed by a substance having a heat capacity 600J/K, when its temperature rises from 28°C to 58°C.