BOARD OF INTERMEDIATE EDUCATION, KARACHI

INTERMEDIATE EXAMINATION, 2016 (ANNUAL)

Date: 03.05.2016 9:30 a.m. to 9:50 a.m.

NOTE:

1.

PHYSICS PAPER - I

(Science Groups)

Time: 20 minutes

Max. Marks: 17

The correct answers are highlighted in red colour.

i)

ii)

SECTION 'A' (MULTIPLE CHOICE QUESTIONS) – (M.C.Qs.)

Each question carries one mark.

This section consists of 17 part questions and all are to be answered. Write this Code No. in the Answerscript.

Do not copy the part questions in your answerbook. Write only the answer in full against the proper

| | iii) iv) | The co | | question | paper is | to be wri | | | | beginning their usual r | | |
|-----------|---|---|-------------------|-------------------------|------------------------------------|-----------------------|----------------|-------------------|----------|----------------------------|----------------|----------------------------|
| Select th | he most ap | opropriate a | nswer for | each fron | n the give | n options | : | | | | | |
| i) | The dime | ensions of C | G are: | | | | | | | | | |
| | * | $M^{-1}L^3T^{-1}$ | -2 | | * | M^2L^2T | 7-2 | * | M^{-1} | L^2T^{-2} | * | MLT^{-2} |
| ii) | * | ty of a body in the direct perpendicu | tion of vel | ocity | | | ration is: * * | | | e direction | | ty |
| iii) | | of change of Linear mor | _ | momentu * | m is also Torque | 1 | s: * | Force | | * | Energy | |
| iv) | accelerat | ance, equal tion will be One half | | f the radi | us of the One fou | | eve the su | rface of Four tin | | rth, the valu | e of gravi | |
| v) | * | ge of audible 1 Hz – 19 l 21000 Hz - | Hz | Z | | * | | 20000 H | | | | |
| vi) | | ditions of in Diffraction | | in thin fi * | | versed du oherence | e to: | * | Refra | ection | * | Phase reversal |
| vii) | The mag | nifying pov | ver of a ler | ns of foca | l length | $\frac{1}{2}m$ is: | | | | | | |
| | * | 1 dioptre | | * | 2 diopti | res | * | 50 diopt | tres | | * | 100 dioptres |
| viii) | This equ | ation representation $m\lambda = 2a$ | | g's Law: * | $m\lambda = 0$ | $d\sin\theta$ | * | $2m\lambda =$ | d sin | $_{1}	heta$ | * | $2m\lambda = 3d\sin\theta$ |
| ix) | | ance betwee Aperture | en the princ | cipal focu | | optical c | | alled: | Foca | l length | * | Principal axis |
| x) | If \hat{i} , \hat{j} a | and \hat{k} are ι | ınit vectors | s, then \hat{k} | $\exists \ \hat{i} \times \hat{j}$ | is equal to | o: | | | | | |
| | * | zero | * | one | | * | \hat{j} | | * | \hat{k} | | |
| xi) | The angle between centripetal acceleration and tangential accelerat | | | | | | | tion in ci | rcular | motion is: | | |
| | * | 180^{o} | * | 0^{o} | | * | 90° | | * | 45° | | |
| xii) | Kitabul I | Manazir wa <mark>Ibn-Al Ha</mark> | | y: * | Al Razi | | * | Abu-Re | han Al | l Beruni | * | Jabir bin Hayyan |
| xiii) | One radi | an is equal I^o | to: | * | 75.3° | | * | 57.3° | | * | 0.017° | |
| xiv) | One kilo | watt hour i | s equal to: | | | | | | | | | |
| | * | 3.6×10^6 | J | * | 3.3×10 | $0^9 J$ | * | 3.9×1 | $0^6 J$ | | * | $3.6 \times 10^9 J$ |
| xv) | | rating bodie Echo | es, having s | slightly d * | ifferent fi Beats | requencie | s, produc * | ce: Resonar | nce | * | Polariza | tion |
| xvi) | If $\overline{A} \Box \overline{B}$ | $=0, \ \overline{A} \times \overline{I}$ | $\bar{B} = 0$ and | $\overline{A} \neq 0$, | then vect | or \overline{B} is: | | | | | | |
| | * | Equal to \overline{A} | - \ | * | Parallel | to \overline{A} | | * | Perpe | endicular to | \overline{A} | * zero |
| xvii) | Kinetic f | riction is al greater than | n static fric | | | * | equal to | static fri | ction | | | |

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