2021

| Roll No: | · |
|----------|---|
|          |   |

## INTERMEDIATE PART-II (12th CLASS) (SPECIAL EXAMINATION) PHYSICS PAPER-II

TIME ALLOWED: 2.40 Hours

SUBJECTIVE

**MAXIMUM MARKS: 68** 

NOTE: Write same question number and its part number on answer book, as given in the question paper.

## **SECTION-I**

2. Attempt any eight parts.  $8 \times 2 = 16$ 

- How can you identify which plate of a capacitor is positively charged? (i)
- (ii) Verify that an ohm times farad is equivalent to second.
- Is E necessarily zero inside a charged rubber balloon if balloon is spherical? (iii) Assume that charge is distributed uniformly over the surface.
- Calculate the electric flux through a surface enclosing a charge. (iv)
- If a charged particle moves in a straight line through some region of space, (v) can you say that the magnetic field in the region is zero?
- What is sweep or time base generator in an oscilloscope? (vi)
- Why does a picture on a TV screen becomes distorted when a magnet is brought near the screen? (vii)
- What is digital multimeter, give its advantage over the analog multimeter? (viii)
- Does the induced 'emf' always act to decrease the magnetic flux through a circuit? (ix)
- Who discovered the electromagnetic induction? (x)
- How would you position a flat loop of wire in a changing magnetic field so (xi) that there is no 'emf' induced in the loop?
- Derive an expression  $\varepsilon = -N \frac{\Delta \phi}{}$ (xii)

Attempt any eight parts. 3.

 $8 \times 2 = 16$ 

- Do bends in wire affect its electrical resistance? Explain. (i)
- Is the filament resistance lower or higher in a 500W, 220V light bulb than in a 100W, 220V bulb? (ii)
- What are thermistors? Give its two uses. (iii)
- Name the device that will permit flow of direct current but oppose the flow of alternating current. (iv)
- Write four properties of series resonance circuit. (v)
- At what frequency will an inductor of inductance IH have a reactance of  $500\Omega$ ? (vi)
- (vii) Write a short note on superconductors.
- What is meant by paramagnetic and diamagnetic substances? Give examples for each. (viii)
- (ix) Distinguish between intrinsic and extrinsic semiconductors.
- (x) Why ordinary silicon diodes do not emit light?
- What is the effect of forward and reverse biasing of a diode on the width of depletion region? (xi)
- (xii) Write some application of photo diode.

## 4. Attempt any six parts.

 $6 \times 2 = 12$ 

- (i) As a solid is heated and begins to glow, why does it first appear red?
- Does the brightness of a beam of light primarily depends on the frequency of photons or (ii) on the number of photons?
- State uncertainty principle and give its two mathematical forms. (iii)

(2)

- (iv) What do you understand when we say that the atom is excited?(v) Give two postulates of Bohr's theory.
  - (vi) Why are heavy nuclei unstable?
  - (vii) A particle which produces more ionization is less penetrating. Explain it.
  - (viii) Define decay constant and also give its unit.
  - (ix) Write the name of basic forces in nature.

## **SECTION-II**

| NOTE: | Attempt any three questions.  | $3 \times 8 = 2$ |
|-------|---|------------------|
| 5.(a) | Define simple and complex networks and explain Kirchhoff's rules.   | 5                |
| (b)   | A particle having a charge of 20 electrons on it falls through a potential difference of 100 volts. Calculate the energy acquired by it in electron volts (eV). | 3                |
| 6 (0) | Explain three motheds to produce induced surrent. Does induced surrent lag to   |                  |
| 6.(a) | Explain three methods to produce induced current. Does induced current lag to an induced emf when the circuit is closed?  | 5                |
| (b)   | What current should pass through a solenoid that is 0.5m long with 10,000 turns of copper wire so that it will have a magnetic field of 0.4T.?                  | 3                |
|       |   |                  |
| 7.(a) | What is an operational amplifier? Describe the use of an operational amplifier as non-inverting operational amplifier and find its gain.                        | 5                |
| (b)   | A circuit has an inductance of $\frac{1}{\pi}H$ and resistance of 2000 $\Omega$ . A 50 Hz A.C. is   |                  |
|       | supplied to it. Calculate the reactance and impedance offered by the circuit.   | 3                |
| 8.(a) | What are intrinsic and extrinsic semi-conductors? Discuss the formation of P-type and N-type material with their schematic diagram.                             | 5                |
| (b)   | The half life of ${}_{38}^{91}Sr$ is 9.70 hours. Find its decay constant.   | 3                |
| 9.(a) | Define Compton effect and derive an expression for the Compton shift.   | 5                |
| (b)   | What are the energies in eV of quanta of wavelength? $\lambda = 400$ , 500 and 700 nm   | 3                |

SE-19-2021-5800 (MULTAN)

| '      |  |  |   |   |           |
|--------|--|--|---|---|-----------|
| Paper  | ·Code  | 2  | Roll  | No  |           |
| Numb   | per: 4471  | INTERMEDIATE PAR   | T-II (12 <sup>th</sup> CLASS) (SI                         | PECIAL EXAMINATION  | ON)       |
| PHYS   | SICS PAPER   | e-II<br><u>OBJEC</u>   |   | IE ALLOWED: 20 Mir<br>XIMUM MARKS: 17                     | nutes     |
| Note:  | or pen to fill the<br>question. No cre   | choices for each objective ty, fill that bubble in front of the bubbles. Cutting or filling edit will be awarded in case BJECTIVE PAPER. | that question number, or<br>two or more bubbles wi        | n bubble sheet.  Use mark<br>ill result in zero mark in t | er<br>hat |
| Q.No.1 |  |  |   |   |           |
| (1)    | Electron volt is t (A) Power   | he unit of:<br>(B) Energy  | (C) Voltage   | (D) Current   |           |
| (2)    | For a charged ca   | pacitor, energy density is give  | en by:  |   |           |
|        | (A) $\frac{1}{2}\varepsilon_o\varepsilon_r E^2$  | (B) $\frac{1}{2}(\varepsilon_o + \varepsilon_r)E^2$  | (C) $\frac{1}{2} \frac{E^2}{\varepsilon_o \varepsilon_r}$ | (D) $\frac{1}{2} \frac{\varepsilon_o \varepsilon_r}{E^2}$ |           |
| (3)    | The third band of (A) Tolerance (C) First digit of   | f colour code for carbon resist  | (B) Second digit of                                       | numerical value<br>os after first two digits              |           |
| (4)    |  | has a strength of one tesla if a current of one ampere place to the field (C) Paral  | d at: (A) An angle  |   |           |
| (5)    |  | ge to mass of an electron is gi  | 277   | (D) $\frac{V^2}{R^2r^2}$                                  |           |
|        | $(A) \frac{V}{B^2 r^2}$  | D I  | (C) $\frac{2V}{B^2r^2}$                                   | (D) $\frac{1}{B^2r^2}$                                    |           |
| (6)    | The lenz's law is (A) Energy   | s also a statement of law of co<br>(B) Mass  | onservation of:<br>(C) Momentum                           | (D) Charge  |           |
| (7)    | The principle of (A) Faraday's law   | electric generator is based on<br>w (B) Lenz's law   | r:<br>(C) Ampere's law                                    | (D) Ohm's law   |           |
| (8)    | The sum of the p (A) Instantaneou  | ositive and negative peak value (B) Peak value   | ues of an A.C. cycle is cal<br>(C) p - p value            | lled: (D) rms value                                       |           |
| (9)    | The impedance of   | of the series resonance RLC ci   | rcuit is minimum at reson                                 | ance frequency and it is eq                               | ual to    |
|        | (A) $\frac{R}{LC}$   | (B) R  | . , .   | (D) $X_L$   |           |
| (10)   |  | have conductivities ranging b  |   | 20 ( 0 ) =1   |           |
|        | (A) $10^7$ and $10^3$  |  | (B) $10^{-10}$ and $10^{-2}$                              |   |           |
|        | (C) $10^{-6}$ and $10^{-6}$  |  | (D) $10^{-10}$ and $10^{-10}$                             | $(\Omega m)$  |           |
| (11)   | The base of a train $(A) 10^{-2} m$  | nsistor is very thin, of the ord<br>(B) $10^{-3} m$  | ler of: (C) $10^{-4} m$                                   | (D) $10^{-6} m$   |           |
| (12)   | The ratio $\beta$ is ca  | alled current gain of a transist   | or and is given by:                                       |   |           |
|        | / - B  | (B) $I_C/I_B$  | (C) $I_E / I_C$   | / - C   |           |
| (13)   | If the temperature per square meter (A) 16 times   | re of a perfect black body is d<br>increases by:<br>(B) 8 times  | loubled, the energy radiate (C) 4 times                   | ed per second (D) 2 times                                 |           |
| (14)   |  | y of a positron is: (B) 1.00 MeV   | (C) 0.511 <i>MeV</i>                                      | (D) 0.201 MeV   |           |
| (15)   | ` '  | radius of the hydrogen atom is (B) 0.053 mm  | ,   | (D) 0.053 pm  |           |
| (16)   | The second secon |  | (5) 0.05511111  | (D) 0.000 pm  |           |
| (16)   | Beta particles are (A) Neutrons  | (B) Electrons  | (C) He atoms  | (D) Photons   |           |
| (17)   | The surface tempton (A) $20 M^{\circ}C$  | perature of the sun is: (B) $15 M^{\circ}C$  | (C) 10 M°C  | (D) 5 <i>M°C</i>  |           |

| Paper         | Code   |  |  | No  |
|---------------|--|--|--|---|
| Numb          | per: 4473  | INTERMEDIATE PAR   | Г-II (12 <sup>th</sup> CLASS) (SI  | PECIAL EXAMINATION)   |
| PHYS          | SICS PAPER   | R-II<br>OBJEC  |  | IE ALLOWED: 20 Minutes XIMUM MARKS: 17  |
|               | think is correct<br>or pen to fill the<br>question. No cr<br>this sheet of OI  | choices for each objective typ<br>, fill that bubble in front of t                         | pe question as A, B, C an<br>hat question number, or<br>two or more bubbles wi | nd D. The choice which you<br>n bubble sheet. Use marker<br>ill result in zero mark in that |
| Q.No.1<br>(1) |  | re of a perfect black body is do increases by:  (B) 8 times                                | oubled, the energy radiate (C) 4 times   | ed per second (D) 2 times   |
| (2)           | Rest mass energy<br>(A) 1.02 MeV   | y of a positron is: (B) 1.00 MeV   | (C) 0.511 MeV  | (D) 0.201 MeV   |
| (3)           | First Bohr orbit $(A)$ 0.053 $\mu m$   | radius of the hydrogen atom is (B) 0.053 mm  | : (C) 0.053 <i>nm</i>  | (D) 0.053 pm  |
| (4)           | Beta particles are (A) Neutrons  | e fast moving: (B) Electrons   | (C) He atoms   | (D) Photons   |
| (5)           | The surface tempton (A) $20 M^{\circ}C$  | perature of the sun is: (B) $15 M^{\circ}C$  | (C) 10 M°C   | (D) 5 <i>M°C</i>  |
| (6)           | Electron volt is (A) Power   | the unit of: (B) Energy  | (C) Voltage  | (D) Current   |
| (7)           |  | apacitor, energy density is given $(B) \frac{1}{2} (\varepsilon_o + \varepsilon_r) E^2$    |  | (D) $\frac{1}{2} \frac{\varepsilon_o \varepsilon_r}{E^2}$                                   |
| (8)           | (A) Tolerance  | of colour code for carbon resist   | (B) Second digit of  | f numerical value<br>os after first two digits  |
| (9)           |  | d has a strength of one tesla if<br>a current of one ampere place<br>to the field (C) Para | d at: (A) An angle   | ewton on one meter length<br>of 60° with the field<br>) Antiparallel to the field           |
| (10)          | 20.00  | rge to mass of an electron is given (B) $\frac{2}{B^2r^2}$                                 | iven by: (C) $\frac{2V}{B^2r^2}$   | $(D) \frac{V^2}{B^2 r^2}$   |
| (11)          | The lenz's law (A) Energy  | is also a statement of law of co<br>(B) Mass   | onservation of:<br>(C) Momentum  | (D) Charge  |
| (12)          | The principle o (A) Faraday's la   | f electric generator is based or<br>aw (B) Lenz's law                                      | n:<br>(C) Ampere's law   | (D) Ohm's law   |
| (13)          | the state of the s | positive and negative peak val<br>us value (B) Peak value                                  | ues of an A.C. cycle is ca<br>(C) p – p value                                  | lled: (D) rms value   |
| (14)          | The impedance (A) $\frac{R}{LC}$   | of the series resonance $RLC$ ci<br>(B) $R$  | reuit is minimum at resonant (C) $X_C$   | nance frequency and it is equal to (D) $X_L$  |
| (15)          | LC   |  | between:  (B) 10 <sup>-10</sup> and 10  (D) 10 <sup>-10</sup> and 10           |   |
| (16)          | The base of a tr (A) $10^{-2} m$   | ansistor is very thin, of the ord (B) $10^{-3} m$  | ler of: (C) $10^{-4} m$  | (D) $10^{-6} m$   |
| (17)          |  | called current gain of a transis   | ,  |   |
|               | (A) $I_E/I_B$  | (B) $I_C/I_B$  |  | (D) $I_B/I_C$   |
|               |  |  | SE-19(Obj)(\(\mathbf{X}\)\(\mathbf{X}\)-2                                      | 021- <b>5800</b> (MULTAN)   |

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|-------|---|--|---|--|
| Paper | r Code  | 202  |   | No   |
| Num   | ber: 4475   | INTERMEDIATE PART-   | II (12 <sup>th</sup> CLASS) (SF                                     | PECIAL EXAMINATION)  |
| PHYS  | SICS PAPER  | R-II<br>OBJECTI  |   | E ALLOWED: 20 Minutes XIMUM MARKS: 17  |
| Note: | think is correct<br>or pen to fill the<br>question. No cr | choices for each objective type of the fill that bubble in front of that bubbles. Cutting or filling tweedit will be awarded in case BUBJECTIVE PAPER. | question as A, B, C and t question number, or or or more bubbles wi | n bubble sheet. Use marker<br>Il result in zero mark in that   |
| Q.No. |   | DECITYETALEN.  |   |  |
| (1)   | The principle of (A) Faraday's law                        | electric generator is based on: w (B) Lenz's law   | (C) Ampere's law  | (D) Ohm's law  |
| (2)   | The sum of the p (A) Instantaneou                         | ositive and negative peak values s value (B) Peak value  | of an A.C. cycle is call<br>(C) p – p value                         | led: (D) rms value   |
| (3)   | The impedance of  | of the series resonance RLC circuit  | it is minimum at resona   | ance frequency and it is equal to:   |
| 7.10  | (A) $\frac{R}{LC}$  | (B) R  | (C) $X_C$   | (D) X <sub>L</sub>   |
| (4)   | Semiconductors $(A) 10^7 \text{ and } 10^3$               | have conductivities ranging betw   | ween:<br>(B) $10^{-10}$ and $10^{-2}$                               | 0(Om)-1  |
|       | (A) $10^{-6}$ and $10^{-6}$                               | 170 X10  | (B) $10^{-10}$ and $10^{-7}$  | The state of the s |
|       |   | 0  |   | (\$2m)   |
| (5)   | The base of a train $(A) 10^{-2} m$                       | nsistor is very thin, of the order of (B) $10^{-3} m$  | of:<br>(C) $10^{-4}m$   | (D) $10^{-6} m$  |
| (6)   | The ratio $\beta$ is ca                                   | alled current gain of a transistor a   | and is given by:  |  |
|       | (A) $I_E/I_B$   | (B) $I_C/I_B$  | $(C)^{I_{E}}/I_{C}$   | (D) $I_B/I_C$  |
| (7)   | If the temperature per square meter                       | re of a perfect black body is dout   | oled, the energy radiate  | ed per second  |
|       | (A) 16 times  | (B) 8 times  | (C) 4 times   | (D) 2 times  |
| (8)   | Rest mass energy<br>(A) 1.02 MeV                          | y of a positron is: (B) 1.00 MeV   | (C) 0.511 <i>MeV</i>  | (D) 0.201 MeV  |
| (9)   | First Bohr orbit in (A) $0.053 \mu m$                     | radius of the hydrogen atom is: (B) $0.053  mm$  | (C) 0.053 <i>nm</i>   | (D) 0.053 pm   |
| (10)  | Beta particles are (A) Neutrons                           | e fast moving: (B) Electrons   | (C) He atoms  | (D) Photons  |
| (11)  |   | perature of the sun is:  |   |  |
|       | (A) 20 M°C  | (B) 15 M°C   | (C) 10 M°C  | (D) $5M^{\circ}C$  |
| (12)  | Electron volt is (A) Power                                | the unit of: (B) Energy  | (C) Voltage   | (D) Current  |
| (13)  | For a charged ca  | apacitor, energy density is given  | by:   |  |
| *     | (A) $\frac{1}{2}\varepsilon_o\varepsilon_r E^2$           | (B) $\frac{1}{2}(\varepsilon_o + \varepsilon_r)E^2$  | (C) $\frac{1}{2} \frac{E^2}{\varepsilon_o \varepsilon_r}$           | (D) $\frac{1}{2} \frac{\varepsilon_o \varepsilon_r}{E^2}$  |
| (14)  | (A) Tolerance   | f colour code for carbon resistand   | (B) Second digit of   | numerical value<br>os after first two digits   |
| (15)  |   | has a strength of one tesla if it es<br>a current of one ampere placed a<br>to the field (C) Parallel  | t: (A) An angle   | wton on one meter length of $60^{\circ}$ with the field Antiparallel to the field  |
| (16)  | The ratio of char   | ge to mass of an electron is given   | n by:   |  |
|       | (A) $\frac{V}{R^2r^2}$                                    | (B) $\frac{2}{3}$  | (C) $\frac{2V}{R^2r^2}$   | (D) $\frac{V^2}{R^2r^2}$   |
| (17)  | D I   | $B^2r^2$<br>s also a statement of law of cons  | Di  | $B^2r^2$   |
| (17)  | (A) Energy  | (B) Mass   | (C) Momentum  | (D) Charge   |

| Paper  | ·Code   | 2021   | Roll  | No.   |
|--------|---|--|---|---|
| 1 -    | Der: 4477   | INTERMEDIATE PART-I  |   |   |
|        | SICS PAPER  | R-II<br><u>OBJECTI</u>   |   | E ALLOWED: 20 Minutes XIMUM MARKS: 17   |
| Note:  | think is correct<br>or pen to fill the<br>question. No cr | choices for each objective type of that hat bubble in front of that bubbles. Cutting or filling two edit will be awarded in case BUBJECTIVE PAPER. | uestion as A, B, C an<br>question number, on<br>o or more bubbles wil | d D. The choice which you<br>bubble sheet. Use marker<br>Il result in zero mark in that |
| Q.No.1 |   |  |   | 1 1 1   |
| (1)    | of wire carrying  | has a strength of one tesla if it ex<br>a current of one ampere placed at  | (A) An angle of   | of 60° with the field   |
| (2)    | (B) Right angle t   |  |   | Antiparallel to the field   |
| (2)    |   | ge to mass of an electron is given  2  |   | $V^2$   |
|        | $(A) \frac{V}{B^2 r^2}$                                   | (B) $\frac{-}{B^2r^2}$   | $(C) \frac{2V}{B^2 r^2}$  | $(D) \frac{V^2}{B^2 r^2}$   |
| (3)    | The lenz's law is (A) Energy                              | s also a statement of law of conse<br>(B) Mass   | rvation of:<br>(C) Momentum   | (D) Charge  |
| (4)    | The principle of (A) Faraday's law                        | electric generator is based on: w (B) Lenz's law   | (C) Ampere's law  | (D) Ohm's law   |
| (5)    |   | ositive and negative peak values of svalue (B) Peak value  | of an A.C. cycle is call<br>(C) p – p value                           | ed: (D) rms value   |
| (6)    | The impedance of  | of the series resonance RLC circuit  | t is minimum at resona  | nce frequency and it is equal to:   |
|        | (A) $\frac{R}{LC}$  | (B) R  | (C) $X_C$   | (D) $X_L$   |
| (7)    | 20  | have conductivities ranging between $(\Omega m)^{-1}$  | reen:<br>(B) 10 <sup>-10</sup> and 10 <sup>-20</sup>                  | $(\Omega m)^{-1}$   |
|        | (C) $10^{-6}$ and $10^{-6}$                               | $0^{-4}(\Omega m)^{-1}$  | (D) $10^{-10}$ and $10^{-7}$  | $(\Omega m)^{-1}$   |
| (8)    | The base of a tra   | nsistor is very thin, of the order of  | 120   |   |
|        | (A) $10^{-2} m$   | (B) $10^{-3} m$  | (C) $10^{-4} m$   | (D) $10^{-6} m$   |
| (9)    | 100   | alled current gain of a transistor as  |   | 7 /   |
|        | (A) $I_E/I_B$   | (B) $I_{C}$  | (C) $I_E/I_C$   | (D) $I_B/I_C$   |
| (10)   | per square meter  |  |   |   |
| (1.1)  | (A) 16 times  |  | (C) 4 times   | (D) 2 times   |
| (11)   | (A) 1.02 MeV  | of a positron is: (B) 1.00 MeV   | (C) 0.511 MeV   | (D) 0.201 <i>MeV</i>  |
| (12)   | First Bohr orbit is $(A) 0.053 \mu m$                     | radius of the hydrogen atom is: (B) $0.053 mm$   | (C) 0.053 <i>nm</i>   | (D) 0.053 pm  |
| (13)   | Beta particles are (A) Neutrons                           | e fast moving: (B) Electrons   | (C) He atoms  | (D) Photons   |
| (14)   | The surface temp  | perature of the sun is:  |   |   |
|        | (A) $20 M^{\circ}C$                                       | (B) $15 M^{o} C$   | (C) $10 M^{o}C$   | (D) 5 <i>M</i> ° <i>C</i>   |
| (15)   | Electron volt is (A) Power                                | the unit of:<br>(B) Energy   | (C) Voltage   | (D) Current   |
| (16)   | For a charged ca  | apacitor, energy density is given b  | ·   |   |
|        | (A) $\frac{1}{2}\varepsilon_o\varepsilon_r E^2$           | (B) $\frac{1}{2}(\varepsilon_o + \varepsilon_r)E^2$  | (C) $\frac{1}{2} \frac{E^2}{\varepsilon_o \varepsilon_r}$             | (D) $\frac{1}{2} \frac{\varepsilon_o \varepsilon_r}{E^2}$                               |
| (17)   | (A) Tolerance   | f colour code for carbon resistanc<br>numerical value  | (B) Second digit of   | numerical value<br>s after first two digits   |

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.

OBJECTIVE KEY FOR INTERMEDIATE ANNUAL EXAMINATION, 2021

ame of Subject: Physics - II Session: Special 2021

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|-------|---------------------------------------|---------------|---------------|---------------|
| Q.Nos | Paper Code                            | Paper Code    |               | Paper Code    |
|       | 4471                                  | 4473          | 4475          | 9977          |
| 1     | B                                     | Α             | A             | B             |
| 2     | A                                     | C             | C             | C             |
| 3     | $\mathcal{D}$                         | C             | B             | A             |
| 4     | $\boldsymbol{\beta}$                  | В             | C             | A             |
| 5     | C                                     | FIC           | $\mathcal{D}$ | C             |
| 6     | A                                     | $\mathcal{B}$ | В             | R             |
| 7     | A                                     | A             | A             | C             |
| 8     | C                                     | $\mathcal{D}$ | C             | D             |
| 9     | В                                     | $\mathcal{B}$ | C             | B             |
| 10    | C                                     | C             | В             | A             |
| 11    | $\mathcal D$                          | A             | FIC           | C             |
| 12    | $\mathcal{B}$                         | A             | В             | 0             |
| 13    | A                                     | С             | A             | R             |
| 14    | C                                     | B             | $\mathcal{D}$ | FIC           |
| 15    | c                                     | C             | B             | В             |
| 16    | В                                     | $\mathcal{D}$ | C             | A             |
| 17    | F/C                                   | B             | A             | $\mathcal{D}$ |
| 18    | F/c                                   | mean          | full cre      | dit.          |
| 19    |                                       | -             | , , , ,       |               |
| 20    |                                       |               |               |               |
| 1     |                                       | . 21          |               |               |

مرشیقی نیات کی محمون مرد می از معروض (Subjective & Objective کی جاری کی کرلیا ہے یہ پرچہ اداری کی ان میڈیٹ پارٹ سیکنڈ سیالینہ امتحان 1 2 0 2 ء کا سوالیہ پرچہ انشائیہ ومعروض (Subjective & Objective) کو بنظر محمق چیک کرلیا ہے یہ پرچہ Set کیا گیا ہے۔ اس سوالیہ پرچہ کا اردو اور انگریز کی Version بھی چیک کرلیا ہے۔ یہ Version آئیں میں مطابقت رکھتے ہیں۔ نیز اس پرچہ پرچہ میں کی قتم کی کوئی غلطی نہ ہے۔ ہم نے سوالیہ پرچہ کا اردو اور انگریز کی Version بھی چیک کرلیا ہے۔ یہ Key (MCQs) کی جانب سے تیار کردہ ہدایات کی معروض (Key (MCQs) کی جانب سے تیار کردہ ہدایات وصول کر کے ان کا بغور مطالعہ کرلیا ہے اور ان کی روشنی میں Key بنائی ہے۔ نیز سب انگزامیز زکیلئے تفصیلی مارکنگ ہدایات/ مارکنگ میمیم اور ان کی روشنی میں Key بنا سے سور کی گئی ہیں۔

Prepared & Checked By:

Dated: 07-12-2021

| Name                           | Designation  | Institution   | Mobile No   | Signature   |
|--------------------------------|--|---|---|---|
| انقنا رم اح                    | AIP  | y le E. Ville in S.   | 03336060851   | 120   |
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| ہم کی کوئی غلطی نہے۔ hecked By | ب طور پرتسلی کر لی ہے۔ کسی   | حروضی) معروضی "Key" اور ہدایات کے حوالہ سے کمل  | ج بالاسواليه برجه(انثائيه+م   | بم نے در  |
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|                                | افتنا رم الح<br>ملم النه<br>المر العرب الحراث<br>الماكال المحال ال | افتنارم المراكة المرا | المرائد كا بح الفرائد كا بالم المتعارف المائد كا بالمتعارف المتعارف المتعا | المان الدير في الفائية + معروض المورس المان الم |