3

Number:			TE PART-II (12 th C	(LASS)
PHYSIC	S PAPER-II			<i>,</i>
think is co Cutting or as given ir	rrect, fill that cir filling two or m objective type q	OBJ ces for each objective rcle in front of that qu ore circles will result [uestion paper and les	uestion number. Use n in zero mark in that q ave others blank. No c	TIME ALLOWED: 20 Minutes MAXIMUM MARKS: 17, C and D. The choice which you narker or pen to fill the circles. uestion. Attempt as many questions redit will be awarded in case
GUBBLES Q.No.1	are not inieu.	Do not solve question	on this sheet of OBJE	CTIVE PAPER.
(1) Shu	nt resistance is al	so called:-		
(A)	Low resistance	(B) High resistance	(C) Specific resistance	e (D) Infinite resistance
(2) Free	uency of A.C use	ed in Pakistan is:-		
(A)	100 cps	(B) 60 cps	(C) 50 cps	(D) 120 cps
(3) Mil	li Henry is the un	it of:-		
(A)	Inductance	(B) Current	(C) Charge	(D) Electric flux
(4) We	can measure the	reactance of capacitor	in:-	
(A)	Farad	(B) Volt	(C) Ampere	(D) Ohm
(5) Pov	ver dissipated in a	pure inductor is:-		
(A)	Large	(B) Zero	(C) Small	(D) Infinite
(6) The	dimensions of st	rain is:-		
(A)	[T]	(B) $[M]$	(C) $\left[LT^{-1}\right]$	(D) Dimensionless
(7) The	diodes required f	for full wave rectificati	ons are:-	
(A)		(B) 2	(C) 3	(D) 4
(8) P –	n diode when for	ward biased acts as a:-		
(A) High resistor	(B) Low resistor	(C) Capacitor	(D) As a switch
(9) 0.1	Kg mass will be	equivalent to the energ		
(A	$9 \times 10^{16} J$	(B) $9 \times 10^{15} J$	(C) $9 \times 10^{-16} J$	(D) $9 \times 10^{-15} J$
(10) Th	e rest mass of Pho			
,	Small	(B) Large	(C) Zero	(D) Infinite
, í	rays are similar i		(0)2010	(D) immic
) Cathode rays	(B) Positive rays	(C) γ – rays	(D) α – rays
•	α – particle has a		(c) / Tuys	(D) α -rays
	+ 2e		(C)	
` '		(B) - 2e	(C) + e	(D) - e
(13) (A)		of Hydrogen are:- (B) 2	(C) 2	(D) 4
, ,	e earth potential is		(C) 3	(D) 4
	Positive	(B) Negative	(C) 7am	(D) Infinite
, ,	ad is unit of:-	(D) Negative	(C) Zero	(D) Infinite
•	Charge	(B) Current	(C) Potential	(D) Como o : to
· ·	•	electrons in a conducto	(C) Potential	(D) Capacitance
) $10^3 ms^{-1}$	(B) $10^{-3} ms^{-1}$	(C) $10^{-4} ms^{-1}$	(D) $10^4 ms^{-1}$

(17) The S.I unit of magnetic flux is:-

(A) Weber

(B) Weber – m^2

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION,

BJECTIVE KEY		IULTAN (PARTA/ II) Supply	Examination, 2016
	Physics	Session	

Q. Nos.	Paper Code	Paper Code	Paper Code	Paper Code
11031	8471	8473	8475	8477
1.	C.	C	D	A
2.	D	С	B	C
3.	В	A	D	A
4.	A	C	B>D	D
5.	Α	C	B,D	B
6.	C	D	B	Ď
7.	A	B	C	B,D
8.	D	A	C	B,D
9.	В	Α	A	B
10.	D ,	C	C	C
11.	B,D	A	C	C
12.	B,D	D	D	A
13.	B	B	B	C
14.	С	D	A	C
15.	С	B,D	A	D
16.	A	B,D	,c	B
17.	C	B	A	A
18.		1.	/	/
19.		1.		/
20.		f	/ /	
	7		**1	

ر فیفیکیٹ بابت تصبح سوالیہ برچ/ مار کنگ Key

مروب الله New برجه الله الروب تعليم New انزمللندا خني امتحان 2016ء كا مواليد برجه ال (Subjective & Objective) کو خطر ممی ق چیک کرلیا ہے یہ پر چسکیس کے عین مطابق Set کیا گیا ہے۔اس موالیہ پر چہ سر ی دیتے ہے۔ اور الیہ پر چہ کا درواور انگریز ک Version بھی چیک کرلیا ہے یہ Version آپس میں مطابقت رکھتے ہیں اور شہیس (s VRED & CHECKED BY

Designation Institution Mobile No. AISH MUHAMMAD AMO. Frof G.E. Jaleanier 030-8390411

Shahad shal Asstt prof G.W.H.981. Callege mallan 03077360030 &

Abdulwaheed Assac. Pro) Co. Emesso ocallege 0301-7436935 Awald

Page (1)

جزل بدایات برائے مارکنگ Key مسلومتیم الولڈسکیم (مارکنگ سکیم) انثريارث فرسط اسكِنڈ سالانه النمنی امتحان 2016ء

SECTION - I

For Question No2, 3 and 4, 9f idea/Reason is given then awasd the max marks.

Q2:-(i) Explaination (02) marks

- No (01) marks, Briefly Explaination (01) marks
- (iii) Definition (01) marks 3. I unit (01) marks
- (iv) Definition (01) marks, Derive 945 Relation (01) mans
- (V) Definition (OI) marks, Formula (OI) marks
- (vi) Any two uses of CRO (01+01) marks
- (Vii) Explaination ____ (02) marks
- (Viii) Explaination or Reason (02) marks
- (ix) NO (01) marks and Explaination (01)
- (X) NO (01) marks and Briefly Explaination (ex mans
- (XI) Yes (01) marks and Reason (01) marks

(xii) Any two points (02) marks.

Q3:- (i) NO OR YES (01) marks, Explaination(01)

(ii) Expression 9 V4 (01) marks, Explaination 9 Expression (01) (iii) Statement (01) marks, Mathematical form (01) marks

- (iv) For Inductor (01) marks, For Capacilor (01) marks
- (V) Briefly Explaination (02) marks
- (Vi) Any two advantages (1+1) marks

(Vii) Explamation Briefly (02) marks

- Definition (01) marks, Briefly Explaination (01) marks (1x) Definitions (1/2+1/2) marks, 3. I unit-s (1/2+1/2) marks
- (X) Explaination Briefly (02) Marks (Xi) Briefly Explaination (02) marks (xi) Definitions (01 +01) marks

Ans al old Abdulwahed Shahod 27h

college HISHMUHAMAD ? G.W.H.gy. Callegemullan G. Emersone G. K. Jahan a

تانوی و اعلیٰ ثانوی تعلیمی بورد، ملتان

مورد: <u>16 - 10 - 29 مغمون: Physics برچ: ۱۲</u> گرپ: جزل مدایات برائے مار کنگ Key میونکیم ااولڈ سکیم (مار کنگ سکیم) -انثريارك فرك اسكندُ مالك فعاسمُنَى امتحان 2016ء

Page(2)

Q4: - (1) Show that E'= 16E by Stefan-Baltzmans Law (ii) Briefly Explaination (02) marks (iii) No(01) marks and

Griefly Explaination (01) marks

(IV) Yes (01) marks, Explaination - (01) marks

(V) yes (OI) marks, Explaination - (OI) marks

(VI) Explaination or Reason (02) marks

(Vii) Any two Factors (02) marks

(Viii) Explaination Briefly (02) marks

(1x) Definitions (1+1) marks, symbols (1+1) marks

SECTION-I

(45(a) Definition (01) Marks, ciscuit-diagram (01 marks) Relation to find for unknown Resistance(03mmks)

(b) Data + Formula (01) marks, Jub. values (01) marks Calculation of correct Ans. with unit-(01) marks

$$E = \frac{mq}{q}$$
,
$$E = 9.8 \text{ N/c} \text{ or } 9.8 \text{ V/m}$$

96(a) Definition (01) marks, Expression For energy

= P.E = 1/2 LI2 (02) marks, and derive relation $=U_{m}=\frac{1}{2}\frac{B^{2}}{U_{0}}(Al)$ — (02) Marks

(b) Data + Formula (01) Marks, Sub Values (01) marks Calculation of correct Answith units (01) marks

$$I = \frac{B}{H_0 n}$$
, $I = 16A$ Ans. (64) Mark

(7 (a) Definition (01) marks, Derivation For Relation

(b) Data + Formula (01) Marks, Sub. Values (01) Marks

Calculation of correct Ans. with units (01) marks.

$$\int f = 15.9 \, \text{Hz} = 16 \, \text{Hz} \, \text{Ars.} \, \text{Hz}$$

فانوی و اعلی ثانوی تعلیمی بورد. ملتان
مورف <u>II بچن Physics</u> مضمون <u>29-10 - ال</u> گروپ
جزل بدایات برائے مار کنگ (Key يوکيم ااولله سيم (مار کنگ سيم) (Page (3)
انثر بإرث فرسط اسكندُ خلاه الشمني المتحان 2016ء
Q8:-(a) Write notes (i) compton effect (2 1/2 marks)
(ii) Pais Production (2½ marks)
(b) Data + Formula (01 marks), Jub Values (01 marks)
Calculation of correct Ans with units or marks
$I_B = \frac{V_{cc}}{R_B}, \Rightarrow I_B = 11.25 \times 10^6 A = 11.25 \text{ MA}$
Ans
$ I_{c} = \beta I_{B} = > I_{c} = 1.125 \times 10^{-3} A = 1.125 \text{ mA}$
(99(9) Definition (01) marks, Functions 9 main Parts(04) marks
(b) Data + Formula (o1) marks. Sub. Values (01) marks
calculation of correct Ans. with units (01) marks
SECTION—III.
Qio(a) If the idea/Reason given in Answer
(h) man marks (1 11 2 2 2 Imperlant)
(b) max. marks should be given 97 Important (03) marks steps or main steps are written for brief procedure.
(6) Carrie (1)
(c) Graph(A) (i) Resistance of Voltmeter (02) marks
(1) Kesistance of voods
(ii) $R_V = 2500 \Omega$ Ans (02) Marks
Graph (B) I < C (02) montes i) current is directly proportional to capacitance I = 17.5 mA 02 montes
is current is directly proportional to aparticular
(ii) When $C = 0.7 \text{ HF}$ then $I = 17.5 \text{ mA}$ Ans.
901
2 January
Shahaday G. W. H. 9 St. Called Awah and where
mulars Abdulwah en college G. Emer multar