OBJECTIVE

NOTE: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

QUESTION NO. 1

	When dielectric material is placed in an electric field it (A) conducts (B) exhibit electric charge (C) undergoes electrolysis (D) becomes po	larized
	(A) R/C (B) C/R (C) R x C (D) \(\subseteq \text{RC} \) Equivalent resistance when two resistances are connected in parallel is given by	
	(A) $R_1 + R_2$ (B) $R_1 + R_2$ (C) R_1R_2 (D) R_1R_2	
- 1	R_1R_2 $R_1 + R_2$ $R_1 - R_2$	
	When Ohm meter measures infinite resistance, its pointer lies at	
- 1	(A) Centre of scale (B) Left end of scale (C) Right end of scale (D) Out of scale	
	A proper combination of a galvanometer and a series resistance acts as	
1	(A) Olum meter (B) Volt meter (C) Ammeter (D) Potentiometer A transformer	
- 1	(A) transformers power (B) generates emf (C) transforms voltage (D) transforms en	erev
- 1	When a motor is just started, the back emf is	
- 1	(A) maximum (B) minimum (C) infinity (D) Almost zero	
	In D.C circuits, current and voltage are controlled by (A) capacitor (B) inductor (C) Resistor (D) gate	
. 1	The reactance x _c of capacitor is given by	
- 1	(A) $x_c = 2\pi fc$ (B) $x_c = \pi fc$ (C) $x_c = 1$ (D) $x_c = 1$	
- 1	2 π fc 2 π f	
0	Semiconductor resistivity ranges	
	(A) 10 ⁻⁶ to 10 ⁻⁴ (B) 10 ⁶ to 10 ⁴ (C) 10 ⁻⁶ to 10 ⁻⁸ (D) 10 ⁻⁸ to 10 ⁻¹⁰	
1	The mathematical symbol for NOR operation is	
2	(A) $x = A.B$ (B) $x = \overline{A.B}$ (C) $x = A+B$ (D) $x = \overline{A+B}$ Emitter current IE in transistor is given by	
	(A) IE = IC/IB (B) IE = IB/IC (C) IE = IB + IC (D) IE = IC - IB	
3	(A) $IE = IC/IB$ (B) $IE = IB/IC$ (C) $IE = IB + IC$ (D) $IE = IC - IB$ The condition $hf > 2 moc^2$ refers to	
_ 1	(A) Compton effect (B) pair production (C) Photoelectric effect (D) Annihilation	of man
•	Momentum of photon is	
5	(A) h/c (B) c/h (C) hf/c (D) λ/h	
	An atom can reside in excited state for (A) 10 ⁻⁸ Sec (B) one second (C) 10 ⁻³ Sec (D) 10 ⁻¹⁰ Sec	
- 1	The SI unit of radiation dose is	
5	(A) Roentgen (B) Curie (C) Grey (D) Rem	
7	The particles equal in mass or greater than protons are called	
-	(A) leptons (B) baryons (C) mesons (D) muons	
>-	EFCS - GROUP SECOND 12*CLASS - 120(13) TIME - 2.4 MAPPES MAPPES	OHOLR
	SUBJECTIVE SECTION NO. 2 Write short answers a ny Eight (8) questions of the following (1) Give statement of Gauss's law. Write down it's mathematical form	68
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Jesus Christ and not as the task of philosophically reflecting on the nature or existence of God aside from religious presuppositions Torrance moves through and beyond Barth's resistance to natural theology This book establishes Torrance s unique reconstruction of natural theology within its proper intellectual context providing a fresh analysis of this important methodological innovation as it emerges from Torrance s realist epistemology As Irving demonstrates in Torrance s distinctive conception of science he operated with an approach to cognition that functions via a realist synthesis of experience and understanding and in Torrance's theological science this synthesis of experience and understanding is the synthesis of revealed theology and natural theology. The author argues that this reconstruction of natural theology expresses a dramatic vision for human agency within theological cognition adding the necessity of the human knowing subject to the priority of the divine revealer Finally this book marries Torrance's accomplishments in reconstructing natural theology to his Christocentric theological method in which God is both revealed and known in the person of Jesus Christ fully God and fully Flat Space Cosmology Eugene Terry Tatum, U.V.S. Seshavatharam, 2021-06-15 This compilation based upon human recent peer reviewed journal publications encapsulates how the Flat Space Cosmology model FSC has become the primary competitor to the inflationary standard model of cosmology New ideas concerning black holes dark energy and dark matter are presented and shown to correlate extremely well with astronomical observations Anyone who follows the fast changing science of cosmology has an interest in the latest developments and would like to know how it is that our universe appears to follow equations one would ordinarily expect for a time reversed black hole may find this book to be fascinating Cosmology is the study of how the universe has changed over the great span of time roughly 14 billion years Later centuries will look back upon the period from 1990 2030 as a Golden Age of theoretical and observational cosmology It is highly likely that we are on the verge of a deeper understanding of the most mysterious energy dark energy and matter dark matter comprising the majority of energy and matter in the universe Some of the material presented in this book is on the cutting edge of dark energy and dark matter theoretical work This book summarizes for the first time the groundbreaking publications of two cosmologists one from the United States and the other from India from 2015 thru 2020 During this highly productive period the authors stealthily published their papers in six different peer reviewed scientific journals so that the model could be quietly explored in all aspects before bringing it all together in a single book This is that book **Scientific and Technical** Aerospace Reports ,1985-10 Monthly Catalog of United States Government Publications United States. Superintendent of Documents, 1963 Physics Briefs, 1988-07

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