

Sri Lal Bahadur Shastri Degree College Gonda

B.Sc-IIInd Sem (Physics)

Thermal Physics & semiconductor

Session 2024-25

Time: 1 hrs

MM: 20

Note-All questions are compulsory

1. A semiconductor is formed by bonds
 - a. Covalent
 - b. electrovalent
 - c. coordinate
 - d. none of these
2. The most commonly used semiconductor is
 - a. Si
 - b. C
 - c. Ga
 - d. S
3. Pentavalent impurity added in pure semiconductor then it become
 - a. P-type semiconductor
 - b. N-type intrinsic semiconductor
 - c. N-type extrinsic semiconductor
 - d. An insulator
4. N-type semiconductor is
 - a. Negative charge
 - b. positive charge
 - c. Electrically neutral
 - d. None of these
5. Minority charge carriers in p type semiconductor is
 - a. Holes
 - b. Electrons
 - c. Neutron
 - d. photons
6. A p-n junction acts as a
 - a. controlled switch
 - b. bidirectional switch
 - c. unidirectional switch
 - d. none of these
7. In forward bias of a p-n junction, the width of depletion layers
 - a. Decrease
 - b. Increase
 - c. Remains the same
 - d. None of these
8. Breakdown voltage found in
 - a. Conductor
 - b. Intrinsic semi-conductor
 - c. Insulator
 - d. Extrinsic semi-conductor
9. In forward bias of p-n junction, P is connected with
 - a. Negative terminal of battery
 - b. Positive terminal of cell
 - c. Connected by sun light
 - d. None of these
10. Pure semiconductor is known as
 - a. Intrinsic semiconductor
 - b. Extrinsic semiconductor
 - c. P-type semiconductor
 - d. N-type semiconductor
11. Heat flow in solid
 - a. Convection
 - b. Conduction
 - c. Radiation
 - d. All of these
12. The sun light comes from sun to earth by
 - a. Radiation
 - b. Conduction
 - c. Velocity
 - d. None of these
13. Photoelectric effect occurs in
 - a. LED
 - b. Photo diode
 - c. LCD
 - d. battery
14. Wein's displacement law is
 - a. $\lambda \propto \frac{1}{T}$
 - b. $E \propto T^4$
 - c. $E \propto \frac{1}{\lambda}$
 - d. none of these
15. Stefan's law is
 - a. $\lambda \propto \frac{1}{T}$
 - b. $E \propto \frac{1}{\lambda^4}$
 - c. $E \propto T^4$
 - d. $E = \sigma T^6$
16. Black body radiation explains by
 - a. quantum mechanics
 - b. classical mechanics
 - c. thermal physics
 - d. nuclear physics
17. Compton wavelength is defined as
 - a. $\Delta\lambda = \frac{h}{mc}(1 - \cos\theta)$
 - b. $\Delta\lambda = \frac{h}{m_0c}(1 - \cos\theta)$
 - c. $\Delta\lambda = \frac{h}{m_0c^2}(1 - \cos\theta)$
 - d. $\Delta\lambda = \frac{h}{m_0c^2}(1 - \cos\theta)$
18. Law of conservation of energy and momentum occurs in
 - a. elastic collision
 - b. non elastic collision
 - c. direct collision
 - d. perpendicular collision
19. Photo electric effect explained by
 - a. Wein's displacement law
 - b. Einstein
 - c. Planck
 - d. Schrodinger
20. Quanta word introduce by
 - a. Bohr
 - b. Planck
 - c. Maxwell
 - d. Ampere

Shri Lal Bahadur Shastri Degree College Gonda

Department of Physics

Continuous and Comprehensive Evaluation

2024-25

B.Sc.II Semester

Paper- Thermal Physics & Semiconductor Devices

S.No.	Name Of Student	Roll No.	M.M	Marks obtain
1	Prabhakar Srivastva	24040100110130	20	18
2	Shivendra Awasthi	147	20	10
3	Nitish Mishra	24040100110121	20	09
4	Alok Sharma	24040100110021	20	11
5	Arpit Singh	24040100110045	20	07
6	Ankit Patel	24040100110032	20	10
7	Satyadev Mishra	112	20	07
8	Shiva Gupta	504	20	08
9	Saurabh Mishra	24040100110174	20	09
10	Pranjal Sharma	24040100110134	20	05
11	Abdul khalik	24040100110002	20	07
12	Alok Kumar Verma	24040100110019	20	09
13	Ashutosh Gupta	24040100110051	20	10
14	Divakar Tiwari	24040100110072	20	11
15	Mohd Aftab Alam	24040100110126	20	09
16	Brijendra pratap	21	20	10
17	Aman Kumar	24040100110023	20	14
18	Lavkesh Kumar	215	20	05
19	Ayusman	277	20	10
20	Satyam	24040100110168	20	09
21	Nidhi Tiwari	221	20	16
22	Nansi Mishra	24040100110359	20	13
23	Alok Awasthi	24040100110018	20	10
24	Anubhav Tiwari	24040100110037	20	11
25	Deepak Mishra	24040100110066	20	02
26	Himnshu tiwari	086	20	06
27	Sundaram Chandra	24040100110200	20	04
28	Satish Arya	24040100110164	20	07
29	Sachin tiwari	24040100110159	20	12
30	Mohit Singh	24040100110110	20	08
31	Sudhanshu pandey	24040100110197	20	03
32	Vishal Tiwari	24040100110214	20	04
33	Price maurya	24040100110137	20	05
34	Satyam Pandey	24040100110170	20	07
35	Satish Chandra Pandey	24040100110165	20	08
36	Jitendra kumar mishra	24040100110090	20	04
37	Vaibhav Tiwari	24040100110207	20	10
38	Aman Kumar	24040100110022	20	05
39	Ram SHarma	24040100110145	20	16
40	Vishnu Prasad parjapati	203	20	06
41	Priyanshu Pandey	24040100110139	20	16
42	Deepak Mishra	494	20	16

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43	Akash Chaurasiya	24040100110015	20	09
44	Ashutosh kumar	24040100110052	20	07
45	Shakti Pratap Singh	24040100110176	20	06
46	Ashish Maurya	311	20	11
47	Hari Darshion Shukla	24040100110079	20	08
48	Nikhil Kumar Pandey	24040100110120	20	07
49	Pankaj gupta	24040100110125	20	06
50	Ashish ojha	24040100110050	20	03
51	Vishnu Kumar	24040100110217	20	04
52	Vipin Kumar Tiwari	24040100110212	20	11
53	Shivam Yadav	24040100110182	20	12
54	Deva Singh	165	20	06
55	Khusi Shukla	24040100110317		06
56	Partibha Mishra	24040100110390	20	13
57	Kaushlendra Mohan	24040100110092	20	09
58	Anurag Yadav	24040100110043	20	11
59	Divya Pandey	24040100110279	20	13
60	Aman Pathak	24040100110024	20	12
61	Mahima Tiwari	24040100110335	20	09
62	Manvendra maurya	24040100110101	20	15
63	Neeraj Singh	24040100110118	20	13
64	Amit Pandey	24040100110026	20	12
65	Priyanshu Singh	24040100110140	20	10
66	Anshuman Tiwari	24040100110035	20	12
67	Raman Kasaudhan	24040100110148	20	07
68	Shreyansh Srivastava	24040100110189	20	08
69	Vishnu	192	20	10
70	Sadhna Maurya	24040100110422	20	14
71	Divyansh Sharma	240401001100736	20	13
72	Sachin Kumar	24040100110158	20	10
73	Kajal Jaiswal	24040100110305	20	08
74	Anchal Pandey	24040100110237	20	07
75	Garima Singh	24040100110285	20	09
76	Anurag Dubey	24040100110040	20	13
77	Abhishek Kumar	188	20	08
78	Ashutosh Pandey	24040100110053	20	13
79	Anshika Srivastva	24040100110255	20	15
80	Mahi Srivastava	24040100110332	20	07
81	Akashi Gupta	24040100110228	20	13
82	Pranay Prajapati	24040100110131	20	07
83	Ashutosh Pandey	24040100110054	20	14
84	Gavrav Kuldeep	24040100110076	20	09
85	Ravi Sankar Shukla	24040100110154	20	13
86	Uday ver Singh	24040100110204	20	08
87	Aditya Kasaudhan	24040100110012	20	09
88	Subham Tiwari	24040100110192	20	10
89	Suryanshi pandey	24040100110469	20	13
89	Anshika Singh	24040100110254	20	14
90	Nikita Jaiswal	24040100110371	20	13
91	Abhilasha Tiwari	240401001102274	20	14
92	Anurag Tiwari	24040100110042	20	06
93	Pusyanjali Shukla	24040100110405	20	07

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94	Saloni	24040100110432	20	04
95	Anshika shukla	24040100110253	20	10
96	Snehlata	24040100110461	20	09
97	Himanshu Shukla	24040100110084	20	08
98	Nidhi Chakrvarti	24040100110368	20	14
99	Adersh Kumar Shukla	24040100110009	20	09
100	Janvi Kasaudhan	24040100110297	20	13
101	Sejal Gupta	24040100110446	20	10
102	Nitisha Mishra	24040100110376	20	14
103	Princi Pandey	24040100110393	20	08
104	Richa Mishra	24040100110411	20	11
105	Rishi Pandey	24040100110412	20	06
106	Prachi Tripathi	24040100110388	20	12
107	Anamika Tiwari	24040100110236	20	12
108	Deeksha Shukla	24040100110272	20	10
109	Ankita chaudhary	24040100110245	20	10
110	Sudha Mishra	24040100110465	20	12
111	Saniya Bano	24040100110438	20	09
112	Samarth Shukla	017	20	06
113	Nitish Tiwari	24040100110123	20	06
114	Ravi Prakash Pandey	24040100110153	20	09

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