|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| **PRE BOARD EXAMINATION1 (2023-2024)** | | | |
| **Subject :Computer Science (083)**  **Grade : XII** | | Max. Marks: 70Time: 3 Hrs | |
| * Answer Key | | | |
|  | **SECTION A** | |  |
|  | (d) ab.c | | 1 |
|  | (c) delete | | 1 |
|  | (a) -511 | | 1 |
|  | False | | 1 |
|  | (b) UPDATE <TABLE\_NAME> | | 1 |
|  | b) Circuit Switching | | 1 |
|  | b. tpl \* 2 | | 1 |
|  | (d) [14 ,17, 20] | | 1 |
|  | (b) Statement 4 | | 1 |
|  | (c) 19#20 | | 1 |
|  | (b) peer-to-peer network | | 1 |
|  | (i) a and d | | 1 |
|  | 1. ValueError, NameError | | 1 |
|  | (b) Repeater | | 1 |
|  | (a) Round () | | 1 |
|  | b) love | | 1 |
|  | Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct  choice as  (a) Both A and R are true and R is the correct explanation for A  (b) Both A and R are true and R is not the correct explanation for A  (c) A is True but R is False  (d) A is false but R is True | | 1 |
|  | (a) Both A and R are true and R is the correct explanation for A | | 1 |
|  | (b) Both A and R are true and R is not the correct explanation for A | |  |
|  | **SECTION B** | |  |
|  | Transmission Control Protocol/ Internet Protocol  eXtensible Markup Language   1. Star topology is a topology in which all devices are connected to a central hub. Bus topology is a topology where each device is connected to a single cable which is known as the backbone.Give one difference between bus topology and star topology   OR   1. There are differences between URL and domain names. The URL is a string of information providing the complete address of the web page on the internet. Whereas domain name is a part of URL which is a user-friendly form of IP address. We use the URL for identifying a particular web page. 2. http is hyper text transfer protocol and https hyper text transfer protocol secured | | 2 |
| Q20. |  | | 2 |
| Q21. | OR | | 2 |
| Q22. |  | | 2 |
| Q23. | 1. Sum() 2. Partition()   OR  import statistics  print(statistics.mode(Marklist)) | | 2 |
| Q24. | Alter table student drop section;  Alter table student add classTr varachar(20) not null;  OR  Problem is the size of the category is short , so assign more size  Alter table athletics modify category varchar(100); | | 2 |
| Q25. | Predict the output of the following code: | | 2 |
|  | **SECTION C** | |  |
| Q26. |  | | 3 |
| Q27. |  | | 3 |
| Q28. |  | | 3 |
| Q29. | i)select E\_no,name from employee where gender='female' and dob like '\_ \_ \_ \_ \_09%';  ii)select count(\*),gender from employee group by gender;  iii)update employee set salary=null where e\_no in (1001,1004,1007); | | 3 |
| Q30. | OR | | 3 |
|  | **SECTION D** | |  |
| Q31. | 1. Select Firstname,lastname,benefits+salary “Total Salary” from employee natural join empsalary; 2. Select Firstname, Benefits from employees natural join empsalary where lastname like ‘%u%’; 3. Select min(salary),designation from empsalary group by designation having count(\*)>2; 4. Desc empsalary; | | 4 |
| Q32. |  | | 4 |
|  | **SECTION E** | |  |
| Q33. | 1. B\_TOWN 2. Optical fibre 3. Hub/Switch 4. VOIP 5. Radiowave | | 5 |
| Q34. | Rb+ opens binary file in read and write mode, make sure file exists otherwise reports an error message FileNotFoundError. Wb+ opens file in write and read mode, it will create the file if file not exists.  ii)    OR  (i) Pickling is serialization and unpickling is deserialization  (ii) | | 5 |
| Q35. | (i) It is the actual values appearing in a given column. Eg for column gender {‘Male’,’Female’}  (ii)  OR  (i) Degree=8, Cardinality=8  (ii) | | 5 |

\*\*\*\*\*\*\*\*\*\*