

Government of Karnataka

Karnataka Secondary Education Examination Board

Question Paper

ANSWER KEY

KARNATAKA SCHOOL EXAMINATION AND ASSESSMENT BOARD

II PUC EXAM-1, MARCH 2025

SUBJECT: 61-INFORMATION TECHNOLOGY MODEL ANSWERS

Qn No.	PART-A		MARKS
I.	**Multiple Choice Questions**		**10X1=10**
1	a. FTA		1
2	b. Registration		1
3	c. 4		1
4	b. Degree		1
5	c. ALTER		1
6	a. Alternate key		1
7	d. Notepad		1
8	c. NIC		1
9	d. Personal belongings		1
10	c. class 'c' material		1
	PART-B		
II.	**Answer any ten of the following questions**		**10x2=20**
11	**Step1**:Login in to software by using administrator login and password. **Step2:** select administration **>** daily punches. **Step3**: If the administrator requires to see the daily punches of the back date the needs change the date in the given menu. **Step4:** the daily punch report can be exported in to excel format from the given below	½ ½ ½ ½	2
12	**Step1**:-login **Step2**:select report>attendance reports>muster report **Step3**: supply the data such as department, designation Time and mode of the file in the respective field Step4:click on submit get the muster report	1 1	2
13	1.document based enrolment 2.introducer based enrolment 3.head of family based enrolment 4.child enrolment below 5 years of age	½ ½ ½ ½	2
14	1.Multiple punches report 2.Absent report 3.Late report 4.Early report 5. Over time report 6. Tour report 7. single punch report 8. Employee leave report. 9. shift wise report. (Consider any 4)	½ ½ ½ ½	2
15	1. Hierarchical model 2. Network model 3. Entity relational model 4. Relational model	½ ½ ½ ½	2

16	GRANT REVOKE	1 1	2
17	1.Numeric data type Ex:-> 12345, 15.5 2.string data type Ex:-> prime name address 3. Date and time data type Ex: 10/12/2025 12:54:01 (consider any 2)	1 1	2
18	1. MYSQL 2.MS-Access 3. Oracle 4. DB2	½ ½ ½ ½	2
19	1. Education and training. 2. Providing agricultural related information. 3.Dessaster management. 4. Office automation.	½ ½ ½ ½	2
20	1. Offline 2. Online	1 1	2
21	**Ergonomics:** is the science concerned one with designing and arranging things so that people can use them easily and safely **purpose of ergonomic:** applying **one** ergonomics can reduce the potential for accidents injury to improve performance and productivity	1 1	2
22	1.Air pollution is mostly caused by production of the dust mixture of solid particles and gases in the surrounding air 2. extensive use of automobile vehicles in the campus can lead to the air pollute the air. 3. ozone produce in the air can pollute the air (Consider any two)	1 1	2
23	First aid kits should be quickly accessible to the employees it should contain all the important items for first aid required to deal with common problems such as cuts, burns headaches and muscle cramp.		2
	PART-C		
III.	**Answer any six of the following questions**		**6x3=18**
24	Step1:login into the software by using administrator login and password Step2: select report>attendance report> FILO report Step3: supply the data in the respective fields such as department sub-department, designation, time Step4: click on submit button		3
25	1.Attendance resister 2.Advance report 3. Date wise attendance register 4.Customise attendance register 5.weekly/monthly report 6.BAS report 7. BAS graphical report	½ ½ ½ ½ ½ ½	3
26	1.check for eligibility 2. document required 3. online application process. Saturday.	1 1 1	3

27	Components of SQL a) Data manipulation language(DML) b)Data definition Language(DDL) c) Data control language(DCL)	 1 1 1	3
28	a) AFIS b) IAFIS C)NGI d) IDENT e)HART f)CODIS g)NAFIS	½ ½ ½ ½ ½ ½	3
29	SELECT statement is used to retrieve the data from the table **Syntax** Select * from Table_name Select * from Emp_tab	1 1 1	3
30	a) Arch b) loop c) whorl	1 1 1	3
31	1.front end 2.back end 3.internet	1 1 1	3
32	a)trip and fall b)slip and fall c) Injuries caused due to escalators or elevator's	1 1 1	3
33	1. adjust the brightness of computer screen to save your eyes from strain 2. reposition the screen to avoid glare from lights or windows 3. keep a proper vision distance from computer screen and blink your eyes in an interval.	1 1 1	3
	PART-D		
IV	**Answer any two of the following**		**2x6=12**
34	**False Acceptance Ratio (FAR)** : The number of istances detected over a sample data where a wrong person is authenticated. **False Rejection Ratio (FRR)** : The number of istances detected over a sample data where a right person is not authenticated FAR and FRR are the parameters by which we can measure the reliability of the biometric attendance system (BAS). FAR can be computed by using a formula as below. FAR = (NFA/NEIA) * 100 [%] *Where,* FAR = False Acceptance Rate NFA= Number of False Acceptance NEIA = Number of Enrollee Identification Attempt For any good biometric system the FAR should be very low in the range of 0.01 percent. FRR can be computed by using a formula as given below. FRR = (NFR/NEIA) * 100 [%] Where, FRR = False Rejection Rate NFR= Number of False Rejection		6

	NEIA = Number of Enrollee Identification Attempts For any biometric attendance system FRR is low then the system is more convinient to the user.		
35	a. Data redundancy and inconsistency b. Difficulty in accessing data c. Isolation of data d. integrity problem e. Atomicity problem f. concurrent access anomalies	1 1 1 1 1 1	6
36	components of basic cloud architecture are **1. A front end**: consisting of the user's device or computer which is connected over network and accessing data/application remotely. **2. The back end**: refers to the cloud itself. It contains all group of networked computers, servers, storage devices and other services that forms the cloud. **3. A network connection (internet)**:to connect the back-end cloud when needed (on-demand).	2 2 2	6
37	1. Store all cleaning chemicals in tightly closed containers in separatecupboards. 2. Throw rubbish daily. 3. Make sure all areas have proper lighting. 4. Do not wear loose clothing or jewellery when working with machines. 5. Never distract the attention of people who are working near a fire or withsome machinery, tools or equipment. 6. Where required, wear protective items, such as goggles, safety glasses,masks, gloves, and hair nets. 7. Shut down all machines before leaving for the day. 8. Do not play with electrical controls or switches. 9. Do not operate machines or equipment until you have been properlytrained and allowed to do so by your supervisor. 10. Repair torn wires or broken plugs before using any electrical equipment. 11. Do not use equipment if it smokes, sparks or looks unsafe. 12. Cover all food with a lid, plastic wrap or aluminium foil. [Consider any six of the above]		6

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II PUC EXAM-1, MARCH 2025

SUBJECT: 61-INFORMATION TECHNOLOGY (NS) MODEL ANSWERS

Qn No.	PART-A		MARKS
I.	**Multiple Choice Questions**		10X1=10
1	b. Listening		1
2	d. Cntr +X		1
3	a. www.passportindia.gov.in		1
4	a. Verhoff algorithm		1
5	a. It shows all the column in the table		1
6	b. DISTINCT		1
7	c. Statement Both(A)and (B)		1
8	b. Fingerprint		1
9	b. 101		1
10	c. class 'c' material		1
	PART-B		
II.	**Answer any ten of the following questions**		10x2=20
11	Stress is a state of feeling upset annoyed and hopeless is called stress		2
12	1) Microsoft excel 2) Libre office 3) Google sheet (consider any two)	1 1	2
13	**Steps1:-** Login in two the software by using administrator login and password **Steps2:- select setup>Holiday master**	1 1	2
14	**EER**:-It is the interest of FAR curve with FRR curve is called equal error rate **FTA**:-when the machine is unable to acquire the biometric data then it is called as FTA(failed to acquire)	1 1	2
15	**a) UIDAI:** Unique Identification Authority of India **b) PSK:** Passport Seva Kendra	1 1	2
16	Hierarchical model Network model Entity relational model Relational model	½ ½ ½ ½ 1	2
17	**ALTER** **SYNTAX:** ALTER TABLE<TABLE_NAME> ADD<COLUMN_NAME><DATA_TYPE> [<SIZE>][<CONTRAINT>]; **EXAMPLE** ALTER TABLE EMP_TAB ADD PLACE VARCHAR(20) AFTER NAME;	1 1	2
18	**SYNTAX:** SELECT * FROM TABLE NAME: (OR) SELECT COLUMN1, COLUMN2…. FROM TABLE NAME; **EXAMPLE:** SELECT * FROM EMP_TAB: SELECT ROLLNO, NAME EMP_TAB;	1	2

		1	
19	Offline Online	1 1	2
20	**Class 'A' materials**:-materials such as wood ,cloth, paper **Class 'B' materials**:- materials such as all liquid, grease and gas materials that burns when exposed to ignition source	1 1	2
21	a) Trip and fall b) Slip and fall c) Lifts d) Accident due to falling of goods f) Accident due to moving abject (consider any two)	1 1	2
22	❖ Hazard using computers ❖ Handling office equipment ❖ Handling objects ❖ Stress at work ❖ Working environment [consider any 4answer each carry ½ marks]	½ ½ ½ ½	2
23	❖ Adjust the brightness of computer screen to save your eye from strain ❖ Reposition the screen to avoid glare from lights or windows ❖ Keep a paper vision distance from computer screen and blink your eyes in an interval ❖ Wear anti-glare glasses while working in computer (consider any two each carry 1 marks)	1 1	2
	PART-C		
III.	**Answer any six of the following questions**		**6x3=18**
24	1.Service entrepreneurs 2.Business entrepreneurs 3. Industrial entrepreneurs 4. Agricultural entrepreneurs 5. Technical entrepreneurs 6. Non-technical entrepreneurs 7. Professional entrepreneurs 8. IT- entrepreneurs 9. Women entrepreneurs 10. Social entrepreneurs 11. Family entrepreneurs (consider any six each carries ½ marks)	 ½ ½ ½ ½ ½ ½	3
25	1. Reuse scrap materials 2. Ensuring quality country 3. Waste exchange 4. Managing e-waste 5. Use of eco-friendly material 6. Reuse recycle (consider any 3)	 1 1 1	3
26	**Step1:** Login in to the software by using administrator login and password **Step2:** Select registration>off policy registration **Step3:** Enter From date ,To date, Department, Sub Department, Designation and type Select appropriate off policy, such as Sunday and Fourth Saturday.	1 1 1	3

27	1. attendance resister report 2. advance report 3. date wise attendance report 4. customised attendance report 5. Weekly/monthly report 6. BAS report 7. BAS graphical report (consider any six each carries ½ marks)	 ½ ½ ½ ½ ½ ½	3
28	**1. Check for eligibility.** If a person wants to obtain a driving licence for motorcycle without gear, then the applicant must be 16 years old and must have the consent of guardian or parents. If one wish to obtain a driving licence for motorcycle with gear then the applicant must be at least 18 years old **2. Documents required.** Following documents are required to obtain the driving licence. Age proof – birth certificate / PAN card / Passport/ 10th class mark sheet/ TC of school **3. Online application process** One can visit the nearest RTO website for the filling of online form. One such website	1 1 1	3
29	❖ SQL is a relational database language, not a programming language like C, C++, Java. ❖ It provides commands to create and modify tables, insert data into tables, manipulate data in the tables etc. ❖ SQL is a non-procedural language since it describes what data to retrieve, delete, or insert, rather than how to perform the operation. ❖ As part of ensuring data security, SQL provides facility to add or remove different types of access permissions to users on databases or tables. [Consider any three of the above]	1 1 1	3
30	1.Confidentiality 2. Integrity 3. Availability 4. Secrecy 6. Denial of service attack 7. Sniff attack 8. Trojan horse	½ ½ ½ ½ ½ ½	3
31	1.Capture 2.Extractor 3.Matcher	1 1 1	3
32	1) Arch 2) loop 3) whorl	1 1 1	3
33	1) First aid 2) Electrical safety 3) Evacuation	1 1 1	3
	PART-D		
IV	**Answer any two of the following**		**2x6=12**

34	The hardware and software requirement for Aadhaar Seva Kendra is as follows. • Desktop/Laptop. • Camera – 2Mega Pixel. • Slap Scanner – ECMP. • Single Finger print Device – UCL. • IRIS Scanner. • Printer. • Scanner. • Windows 7 or Windows 8 (32-bit and/or 64-bit editions). • High-speed Bank Network Connectivity (for uninterrupted connectivity during clientinst allation/enrolments/Updation). • The enrolment station (Laptop/Desktop) should be pre-installed with associated drivers for printer, • Camera, scanner etc. • Updated window O/S installed using windows live update. • Anti-virus if any installed should be disabled while client installation. • 2 GHz,Dual core CPU or Later. • 4GB RAM or higher. • 160 GB HDD. • Dedicated USB 2.0 port(Minimum 5 ports required) for use of IRIS, Finger print scanner, Camera etc. • Valid (alpha numeric/numeric) Bios Serial number. The operator of the Aadhaar Seva Kendra must follow the following steps before s/he actually start the enrollment process of the residents (to whose card is to be generated). • Operator must capture the GPS coordinates at start of enrolments every day. Consider any 12 answer each 1 marks		6
35	There are **three** types of components Data definition language**(DDL):-**It deals with a schema(structure) definition of the RDBMS the DDL commands are used to create, modif and remove the data base object such as table views, and keys. DDL commands are a) CREATE b)ALTER c) DROP d) TRUNCATE Data manipulation language**(DML)** DML commands are a)UPDATE b)DELETE c)INSERT d)SELECT Data control language**(DCL)** Is used to control access to the data base DCL commands are a) GRANT b) REVOKE	2 2 2	6

36	components of basic cloud architecture are **1. A front end**: consisting of the user's device or computer which is connected over network and accessing data/application remotely. **2. The back end**: refers to the cloud itself. It contains all group of networked computers, servers, storage devices and other services that forms the cloud. **3. A network connection (internet)**:to connect the back-end cloud when needed (on-demand).	2 2 2	6
37	1. Store all cleaning chemicals in tightly closed containers in separatecupboards. 2. Throw rubbish daily. 3. Make sure all areas have proper lighting. 4. Do not wear loose clothing or jewellery when working with machines. 5. Never distract the attention of people who are working near a fire or withsome machinery, tools or equipment. 6. Where required, wear protective items, such as goggles, safety glasses,masks, gloves, and hair nets. 7. Shut down all machines before leaving for the day. 8. Do not play with electrical controls or switches. 9. Do not operate machines or equipment until you have been properlytrained and allowed to do so by your supervisor. 10. Repair torn wires or broken plugs before using any electrical equipment. 11. Do not use equipment if it smokes, sparks or looks unsafe. 12. Cover all food with a lid, plastic wrap or aluminium foil. 13. Do not smoke in 'No Smoking' areas. 14. Report any unsafe condition or acts to your supervisor. [Consider any six of the above]		6

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