

CP-9224

Sub. Code

11H

B.Sc. (Aviation) DEGREE EXAMINATION, APRIL 2018

First Year

HINDI

Paper - I

STORY, NOVEL, GRAMMAR AND TRANSLATION

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

सभी प्रश्नों के उत्तर संक्षेप में दीजिए।

1. पेमचन्द का असली नाम क्या है? और वे उर्दू में किस नाम से लिखते थे?
2. रामजीदास का संक्षिप्त परिचय दीजिए।
3. वजीरासिंह का संक्षिप्त परिचय दीजिए।
4. "पाँच मिनट" कहानी में अंतिम मुलाकात में पति-पत्नी के बीच में क्या बातें हुईं?
5. कल्याणी और उदयभानुलाल के बीच में किस बात पर झगडा हुआ?
6. मन्साराम को छात्रालय के जीवन में क्यों तृप्ति नहीं मिली?
7. कृष्णा की शादी किससे हुई? और क्यों?
8. रुकमणी कौन है? और वह किस प्रकार पाठकों की सहानुभूति प्राप्त कर लेती है?

9. लिंग बदलिए :-

(a) वर (b) नाना (c) सेठ (d) कुत्ता

10. वचन बदलिए :-

(a) किताब (b) माता (c) रात (d) भाई

Part B

(5 × 5 = 25)

सभी प्रश्नों के उत्तर दीजिए।

11. (a) आनन्दी ने लालबिहारी की क्या शिकायत की थी?

(या)

(b) बिल्ली की हत्या क्यों की गयी?

12. (a) लहनासिंह ने बोधासिंह को कैसे बचाया?

(या)

(b) पाँच मिनट कहानी के शीर्षक की सार्थकता पर विचार कीजिए।

13. (a) पुल्लिंग से स्त्रीलिंग बनाने के नियम उदाहरण सहित समझाइए।

(या)

(b) एकवचन से बहुवचन बनाने के नियम क्या-क्या हैं?

14. (a) मंसाराम की मृत्यु कैसे हुई?

(या)

(b) जियाराम ने आत्महत्या क्यों की?

15. (a) सियाराम किसके साथ भाग गया और क्यों?

(या)

(b) कल्याणी का चरित्र-चित्रण कीजिए।

Part C

(3 × 10 = 30)

सभी प्रश्नों के उत्तर दीजिए। उत्तर विस्तार से लिखिए।

16. (a) "उसने कहा था" कहानी का सारांश लिखिए।
(या)
- (b) निर्मला की दुर्गति का कारण तोताराम है। इसका विचार कीजिए।
17. (a) सर्वनाम किसे कहते हैं? उनके भेदों को उदाहरण सहित समझाइए।
(या)
- (b) विशेषण किसे कहते हैं? उनके भेदों को उदाहरण सहित समझाइए।
18. (a) अंग्रेजी में अनुवाद कीजिए।

रबर खास वृक्षों के दूध से बनाया जाता है। उसके वृक्ष भारत, जावा, सुमात्रा, मलाया, आफ्रीका और दक्षिण अमेरिका में पाये जाते हैं। रबर का वृक्ष और दूध देनेवाली लताएँ भी होती हैं। इस प्रकार की लताएँ आसाम, बर्मा, जावा आदि जगहों में पायी जाती हैं।

रबर निकालने की विधि यों है—रबर के पेड़ के तने में पहले एक छोटा—सा छेद कर दिया जाता है। उस छेद से बराबर दूध निकलता रहता है।

(या)

- (b) कोडैक्कानल में देखने लायक स्थान बहुत—से हैं। सड़क से कोडैक्कानल शहर पहुँचने से पहले "सिल्वर कैसकेड" नामक सुन्दर झरना है। यह सचमुच रजत प्रपात ही है। इसके आसपास सदा दर्शकों की भीड़ लगी रहती है। कोडैक्कानल में और भी कई प्रपात हैं। टाइगर फाल्स, पाम्बार फाल्स, फेरी फाल्स आदि बहुत ही सुन्दर हैं। एक स्थान का नाम "पिल्लर राक्स" है। यहाँ पहाड़ों का एक पार्श्व ऐसा मालूम पड़ता है, मानों वहाँ कई खंभे गड़े हों।

CP-9226

Sub. Code

12

B.Sc. DEGREE EXAMINATION, APRIL 2018

First Year

Aviation

ENGLISH – PROSE AND COMMUNICATION SKILLS

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Who is compared to the man who stumbles through his lessons?
2. What does Indira Gandhi not demand?
3. What is the significance of pen in A.G. Gardiner's *On Habits*?
4. What question did the teacher ask in *Crime and Punishment* by R. K. Narayan?
5. What did the elders not like their children to read in Margaret Atwood's *Survival*?
6. What are the rivers flowing through Allahabad? How does Sarojini Naidu describe them?

Fill in the blanks with appropriate form of verbs.

7. I _____ him tomorrow. (meet)
8. He _____ to cinema yesterday. (go)

Change into passive voice.

9. I post a letter.

Use appropriate articles.

10. _____ deer is _____ animal.

Part B**(5 × 5 = 25)**

Answer **all** questions.

11. (a) Write a short essay on the objective in education emphasized by Livingstone.

Or

(b) Write a short note on Indira Gandhi's views on youth.

12. (a) Why was Balfour agonized when he made a speech?

Or

(b) Bring out the significance of R.K. Narayan's crime and punishment in modern society.

13. (a) What books did Margaret Atwood enjoy reading?

Or

(b) Highlight the views expressed by Sarojini Naidu in the vision of patriotism.

14. (a) Write on usage of simple present tense.

Or

(b) Write on usage of simple future tense.

15. (a) What are the prepositions used to mention the time and place? Explain.

Or

- (b) Write about Definite articles.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) What are Livingstone's views on education.

Or

- (b) Write an essay on the books that Margaret Atwood enjoyed reading when she was a little girl. What reasons does she give for her preferences?

17. (a) Substantiate Indira Gandhi's view that the youth are the backbone of India.

Or

- (b) What are the views of Gardiner on desirability or forming habits?

18. (a) What is a modal verb? List out each with examples.

Or

- (b) Explain Sentence patterns with examples.

CP-9227

Sub. Code

13

B.Sc. DEGREE EXAMINATION, APRIL 2018

First Year

Aviation

INTRODUCTION TO AVIATION INDUSTRY

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. List out the types of aviation.
2. What is low cost carrier?
3. What is Airport Master Plan?
4. Expand BCAS.
5. Define airport.
6. What is an electronic ticket?
7. Expand VISA.
8. What are the major components of airport?
9. List out the different terminal design.
10. What are the current challenges in Airline Industry?

Part B**(5 × 5 = 25)**Answer **all** questions.

11. (a) Write a brief note on IATA.

Or

- (b) Explain the types of charters.

12. (a) Describe the functions of CISF.

Or

- (b) Explain the scope of low cost carriers in India.

13. (a) Write a brief note on FAA.

Or

- (b) Explain DGCA and its functions.

14. (a) Describe the functions of Airport.

Or

- (b) Write a short note on Airport planning.

15. (a) Describe the major players in Airline industry in India.

Or

- (b) Explain the competition in Airline industry.

Part C**(3 × 10 = 30)**Answer **all** questions.

16. (a) Explain ICAO and its functions.

Or

- (b) Narrate the freedom of Air with examples.

17. (a) Explain DGCA and its functions.

Or

(b) Explain the organizational structure of an airport.

18. (a) Narrate the airport operations in detail.

Or

(b) Explain the different types of airline operations.

CP-9228

Sub. Code

14

B.Sc. DEGREE EXAMINATION, APRIL 2018.

First Year

Aviation

AIRPORT OPERATIONS

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Airport.
2. What are the types of Airport?
3. What is Heliport?
4. What is Equinox?
5. List out the Airport Cost.
6. What is open sky policy?
7. Define Runway.
8. Difference between Latitude and Longitude.
9. What are the objectives of Air Traffic Services?
10. What is RAMP?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Narrate the principles of Aviation.

Or

- (b) Explain the impact of aviation during World Wars.

12. (a) Describe the classifications of Airport.

Or

- (b) Write a short note on :

(i) International Airport.

(ii) Regional Airport.

(iii) Floating Airport.

13. (a) Explain the sources of Airport Revenue.

Or

- (b) Narrate the economic benefits of Airport Business.

14. (a) Explain the planning itineraries by Air.

Or

- (b) Describe the travel documents for Air Travel.

15. (a) Explain the types of runway with neat sketch.

Or

- (b) Describe about Airport Markings.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Narrate the history of Aviation.

Or

(b) Explain airport structure with neat sketch.

17. (a) Explain the different types of customers in airport business.

Or

(b) Describe the IATA traffic conference areas.

18. (a) Explain airport lighting with neat sketch.

Or

(b) Explain the ground support equipments in airport operations.

CP-9229

Sub. Code

15

B.Sc. DEGREE EXAMINATION, APRIL 2018

First Year

Aviation

ELECTRICAL AND ELECTRONICS (BASICS)

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define ohm's law.
2. State Power Factor.
3. What is meant by Single phase Transformer?
4. List out the usage of Ammeter, Voltmeter.
5. Define Logic Gates.
6. What is meant by Rectifiers and Types?
7. Define Zener Effect.
8. Define Flip-Flops and Types.
9. Define digital signal over to the Analog signal.
10. Draw a Block Diagram for Satellite and Optical fiber.

Part B**(5 × 5 = 25)**Answer **all** questions.

11. (a) Explain Kirchhoff's law with neat diagram.

Or

- (b) Write short notes about Dynamometer type watt meters and Energy Meters.

12. (a) Explain Single phase Transformer with neat diagrams.

Or

- (b) Explain Single phase induction motor with neat diagrams.

13. (a) Explain various characteristics of PN Junction diode.

Or

- (b) Explain CC, CB, CE Configurations of transistors with diagrams.

14. (a) Explain A/D and D/A Conversion.

Or

- (b) Explain various Logic gates with suitable diagrams.

15. (a) Define Modulation and Demodulation with examples.

Or

- (b) Explain Communication Systems (Radio, TV, Fax, Microwave).

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain Operating Principles of Moving Coil and Moving Instruments.

Or

- (b) Explain DC Generators and its principle, Diagram, Operation, and Basic Equations.

17. (a) Explain Transistors and its Configurations, BJT and its characteristic's.

Or

- (b) Explain briefly about Single phase induction motor with neat diagrams.

18. (a) Explain briefly about Amplitude Modulation and Frequency Modulations.

Or

- (b) Explain Binary Number systems, Boolean Algebra, A/D, D/A Conversion.

CP-9230

Sub. Code

16

B.Sc. (Aviation) DEGREE EXAMINATION, APRIL 2018

First Year

AIR REGULATIONS

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Write a paragraph about sensory receptors and sensory stores.
2. Explain the term “Arousal” in factors affecting performance.
3. Define :
 - (a) Aircraft
 - (b) Aerodrome
 - (c) Import
 - (d) Export
4. Define :
 - (a) Aircraft Proximity
 - (b) Air Prox
5. What are the documents to be carried in aircraft as per Article 29 of convention of chicogo?

6. Define :
 - (a) Error
 - (b) Hazards
7. Why you need Air Traffic Control (ATC)?
8. What is ICAO?
9. Define :
 - (a) Airport
 - (b) Taxiway
10. What are functions of DGCA?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain the effects & side effects of the following :
 - (i) Alcohol
 - (ii) Medication
 - (iii) Drugs.

Or

 - (b) Explain Air Traffic Control within Terminal Area.
12. (a) Explain in detail about the errors due to individual practices and habits.

Or

 - (b) Write short notes on Visual Flying Rules (VFR) and Instrument Flying Rules (IFR).
13. (a) What are the aims and objectives of the organization as per article 44 of convention of Chicago?

Or

 - (b) Draw and Show the organization chart of Director General of Civil Aviation (DGCA) in India.

14. (a) Define :
- (i) Approach Control Unit
 - (ii) Expected Approach Time (EAT)
 - (iii) Standard Instrument Departure (SID)
 - (iv) Standard Instrument Arrival (STAR)
 - (v) Visual Approach.

Or

- (b) What the pilot in command should write to director general in case of accident or incident due to Dangerous goods?

15. (a) Write short notes on :
- (i) Fatigue
 - (ii) Shift Work
 - (iii) Working at night.

Or

- (b) What is Decision Making? Give a brief explanation about decision making.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) What is Human Memory? Explain the process and forms of memory.

Or

- (b) What are the duties, responsibilities and checks to be carried out in case of transporting dangerous goods by aircraft by the operator?

17. (a) Write down the procedure for issue of the Air Defense Clearance (ADC).

Or

- (b) Write briefly about Aircraft Accident Investigation Bureau and their functions which will be setup by Ministry of Civil Aviation.

18. (a) Different between :
- (i) Reversible Error and Irreversible Error
 - (ii) Variable Error and Constant Error.

Or

- (b) Write in detail about Air Traffic Control Aids.
- (i) Enroute Aids
 - (ii) Airway Aids
 - (iii) Landing Aids.

CP-9231

Sub. Code

17

B.Sc. DEGREE EXAMINATION, APRIL 2018

First Year

Aviation

AIRCRAFT AND ENGINE (GENERAL)

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define Aerofoil.
2. What is shock wave?
3. Define Lapse rate.
4. Explain Density.
5. Explain stagnation point.
6. What is shock strut?
7. What is anti- skid system?
8. How Turbojet engine produce thrust?
9. Why lubrication system is required for an engine?
10. How propeller produce thrust?

Part B**(5 × 5 = 25)**Answer **all** questions.

11. (a) Briefly explain the Wing Construction.

Or

(b) Briefly explain the landing Gear Retraction.

12. (a) Explain Lateral stability and control of an aircraft.

Or

(b) Describe Swept Wing.

13. (a) Explain in detail about spin of an aircraft.

Or

(b) List out and explain the factors effecting climb performance.

14. (a) Write the types of supersonic airfoils and its character.

Or

(b) Explain classifications of Aircraft.

15. (a) How do you check engine performance?

Or

(b) Briefly explain Subsonic Flow.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain in detail about the airflow over a wing and how aircraft get the Lift?

Or

- (b) Explain in detail the forces acting on an aircraft while flying?

17. (a) Explain the Ignition System of a Gas Turbine Engine.

Or

- (b) Explain in detail about the limitations of propeller aircraft.

18. (a) Name four categories of Gas Turbine Engines and Explain them.

Or

- (b) Explain in detail about Lubrication System of a Gas Turbine Engine.
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CP-9232

Sub. Code

21H

B.Sc. (Aviation) DEGREE EXAMINATION, APRIL 2018

Second Year

Part-I - HINDI-II

PROSE, GRAMMAR AND TRANSLATION-II

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

सभी प्रश्नों के उत्तर संक्षेप में दीजिए।

1. प्रादेशिक भाषाओं की कृतियों का आस्वादन सम्पूर्ण भारतीय कैसे कर सकते हैं?
2. घृणा का समाज में क्या महत्व है?
3. चुड़िहारिन के पेशे में क्या विशेषताएँ होनी चाहिए?
4. मक्रील के वातावरण पर प्रकाश डालिए।
5. भ्रमण के लिए नक्शे से क्या मदद मिलती है?
6. गाँधीजी उपवास क्यों करते?
7. प्रेरणार्थक क्रिया किसे कहते हैं?
8. अकर्मक क्रिया किसे कहते हैं?
9. संभाव्य भविष्यत् काल किन अर्थों में प्रयुक्त होता है?
10. नामधातु किसे कहते हैं?

Part B

(5 × 5 = 25)

सभी प्रश्नों के उत्तर दीजिए। संदर्भ सहित व्याख्या कीजिए।

11. (a) यदि पृथ्वी पर स्वर्ग कहीं है तो यहाँ ही है, यहाँ ही है, यहाँ ही है।

(या)

- (b) एक पाखंडी पुजारी को हम ग्रामीणों को ठगते देखकर हमें उससे घृणा होती है।

12. (a) वह मेरे आँगन में चूड़ियों का बाजार पसारकर बैठी थी और कितनी बहू-बेटियाँ उसे घेरे हुए थीं।

(या)

- (b) फूल न खिल जाने से पहले इतना सुन्दर होता है और न तब जब उसकी पंखुडियाँ लटक जायें।

13. (a) मैं लौटने का ही निश्चय किया। पर सड़क दीखती तो थी नहीं, अन्दाज से ही मैं बीच के पक्के हिस्से पर गाड़ी चला रहा था।

(या)

- (b) लोग "सर", "रायबहादुर", "खानबहादुर" और "रायसाहब" की उपाधियाँ एक के बाद एक छोड़ते चले गये।

14. (a) "ने" विधि का प्रयोग समझाइए।

(या)

- (b) भूतकाल के कितने भेद हैं? उदाहरण देकर स्पष्ट कीजिए।

15. हिन्दी में अनुवाद कीजिए।

- (a) We are all citizens of India. Each of us is a member of one great community, which includes every Indian. We should be grateful, for this privilege and the thought of it should always prevent us from doing anything unworthy.

(या)

- (b) The Arab is very fond of his horse and loves it as he would love his own child. The Arabian horse is one of the best in the world. It is beautiful to look at and it can run very fast. It is brought up with great care.

Part C

(3 × 10 = 30)

सभी प्रश्नों के उत्तर दीजिए। उत्तर विस्तार से लिखिए।

16. (a) "जीवन में घृणा का स्थान" पाठ का सारांश लिखिए।
(या)
- (b) "रजिया" पाठ का सारांश लिखिए।
17. (a) "क्रिया विशेषण" किसे कहते हैं? अर्थ के अनुसार इसके कितने भेद हैं? उदाहरण सहित समझाइए।
(या)
- (b) "कारक" किसे कहते हैं? उनके भेदों को उदाहरण सहित समझाइए।
18. (a) "बहता पानी निर्मला" पाठ का सारांश लिखिए।
(या)
- (b) हिन्दी में अनुवाद कीजिए।

King Dasaratha had three queens - Kausalya, Kaikeyi and Sumithra. Rama was the son of the eldest queen Kausalya, Bharatha was the son of Kaikeyi, while Sumithra had two sons, Lakshmana and Satrughna. Lakshmana was devoted to Rama and was always in his company; while Satrughna was specially devoted to Bharatha. The four brothers lived in great friendship, and the three younger brothers worshipped their eldest brother Rama.

CP-9233

Sub. Code

22

B.Sc. (Aviation) DEGREE EXAMINATION, APRIL 2018

Second Year

Part II — English

**PROSE, EXTENSIVE READING AND COMMUNICATION
SKILLS**

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Who were the foreigners who invaded and looted India?
2. Name some of the duties that the artist as a Citizen, has to the community.
3. How can diphtheria, small-pox and measles be controlled?
4. How was Lynd converted to nationalism?
5. What is the moral of the story “After Twenty Years”?
6. Why did the astrologer choose the spot under the tamarind tree to conduct business?
7. What is meant by Adverbial classes?
8. What are called reflexive pronoun?

9. Change the following into indirect speech :
Sita to Ramu, "If you are going to the forest, I want to accompany you"
10. Peter is the smartest boy in the class. (Change into positive degree)

Part B (5 × 5 = 25)

Answer **all** questions.

11. (a) Indians' attitude to burning social issues.
Or
(b) What forces prevent us from stamping out diabetes, cholera and other diseases?
12. (a) Write a paragraph on the opening of Nehru's speech.
Or
(b) The purpose that a referee can serve at debates, according to Robert Lynd.
13. (a) Describe the character 'Jimmy'.
Or
(b) Write a short note on 'An Astrologer's Day'.
14. (a) Differentiate main and subordinate clause.
Or
(b) Write a short note on pronoun and its kinds.

15. (a) What are the general rules for changing direct speech into indirect speech?

Or

- (b) Complete the following sentences using the appropriate form of the adjective.
- (i) She is ————— than her sister.
 - (ii) Martha is a ————— girl.
 - (iii) Supriya is the ————— girls in the class.
 - (iv) Martin speaks English —————
 - (v) Russia is the ————— country in the world.

Part C (3 × 10 = 30)

Answer **all** questions.

16. (a) Write an essay on the conflict between the state and the artist.

Or

- (b) How can a scientific attitude help man? What hinders man from being scientific?
17. (a) How does Nehru react to Gandhi's death? How does he finally reconcile himself to it?

Or

- (b) Write a critical appreciation on "The Four Brothers".
18. (a) Complete each sentence using the subordinating conjunction from the parenthesis :
- (i) I visit the grand canyon ————— I go to Arizona. (once, whenever, wherever).

- (ii) This is the place _____ we stayed last time we visited. (where, when, how)
- (iii) _____ you win first place, you will receive a prize. (wherever, if, unless)
- (iv) You won't pass the test _____ you study. (when, if, unless)
- (v) I could not get a seat, _____ I came early. (as, though, when)
- (vi) we are leaving Wednesday _____ or not it rains. (if, whether, though)
- (vii) Pay attention to your work _____ you will not make mistakes. (so that, unless, or)
- (viii) The musicians delivered a rousing performance _____ they had rehearsed often. (though, as, once)
- (ix) She's honest _____ everyone trusts her. (if, so, when)
- (x) Write this down _____ you forget. (or, when, lest)

Or

- (b) Change the sentences into indirect speech :
- (i) She said, "I have got a toothache".
- (ii) "Give me a cup of water", he told her.
- (iii) "Where are you going?" James asked Mary.
- (iv) He said, "I have passed the physical test".
- (v) She said to me, "You are my only friend".

CP-9234

Sub. Code

23

B.Sc. DEGREE EXAMINATION, APRIL 2018.

Second Year

Aviation

AVIATION WEATHER AND METEOROLOGY

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define pressure and mass.
2. What is the amount of oxygen in atmosphere?
3. Daily flight crew briefing check list.
4. What is general circulation?
5. Classification of clouds?.
6. Define Jet stream.
7. What is wind shear?
8. What is wind friction layer?
9. Define turbulent mixing.
10. What is TAF?

Part B**(5 × 5 = 25)**Answer **all** questions.

11. (a) Explain an meteorology and weather concepts.

Or

- (b) Write short notes on earths atmosphere.

12. (a) Explain the method of icing conditions.

Or

- (b) Explain about the low visibility wind shear.

13. (a) Explain a detail note on water vapour sensing systems.

Or

- (b) What are the measuring devices and its application?

14. (a) Explain the operation of with Satellite system with neat sketch.

Or

- (b) Explain about the low cloud formation.

15. (a) Explain about the jet stream location and intensity.

Or

- (b) Short notes on conditions leading to aircraft icing.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the detail notes on isothermal layers along with function.

Or

- (b) Briefly explain about the Jetstream and micro Burst its operation.

17. (a) Discuss on the different clouds and formation system.

Or

- (b) Explain with neat sketch the satellite weather image for the flight operations.

18. (a) Why is water vapour measurement critical to meteorology and aviation forecasting?

Or

- (b) Briefly explain about the benefit of aviation weather meteorology.
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CP-9235

Sub. Code

24

B.Sc. DEGREE EXAMINATION, APRIL 2018

Second Year

Aviation

PERSONALITY DEVELOPMENT

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is a communication skill?
2. What is a positive outlook?
3. What is time waster?
4. Define emotional competence.
5. Who is a leader? Explain.
6. What is motivation?
7. What do you understand by the term “job interview”?
8. Define creativity.
9. What is group discussion?
10. Define training.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Explain the barriers of communication.

Or

- (b) Explain about communication skill in details.

12. (a) What are the limitations of emotional intelligence?
Explain briefly.

Or

- (b) What is emotional competency? How can you measure emotional competency? Explain.

13. (a) Explain three skills that are required by a manager.

Or

- (b) What are our time wasters? Briefly explain.

14. (a) What are some of the illegal questions in an interview?

Or

- (b) What are the three steps to follow up effectively after the interview?

15. (a) Explain the advantages of training.

Or

- (b) What is presentation? Explain the various types of presentations.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain the barriers of listening.

Or

- (b) What are the ten blocks that affects our creativity? Explain.

17. (a) What is time management? Explain the importance of time management.

Or

- (b) What are the methods to be followed to improve creativity?

18. (a) What are the ten points to keep in mind before attending an interview?

Or

- (b) What is a resume? Describe its contents with illustrations.

CP-9236

Sub. Code

26

B.Sc. DEGREE EXAMINATION, APRIL 2018

Second Year

Aviation

AIR NAVIGATION (GENERAL)

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What is gravity or gravitation?
2. Give a brief idea about earth rotation.
3. What is controlled airspace?
4. What is TCAS? Explain.
5. Write the advantages and disadvantages of TCAS?
6. Write the meaning of 'Dead Reckoning Navigation'.
7. What do you mean by performance of an airplane?
8. What is meant by ceiling for an aircraft?
9. What are the various factors that determine the performance of aircraft?
10. What do you mean by cruise altitude?

Part B**(5 × 5 = 25)**Answer **all** questions.

11. (a) Explain in brief about the factors governing performance of aircraft.

Or

- (b) Differentiate between Tare Weight and Ramp Weight.

12. (a) How do Inertial Navigation Systems works?

Or

- (b) Write down the method followed for finding weight and balance check of light aircraft.

13. (a) Explain :

- (i) GPS Navigation Systems
- (ii) Inertial Navigation System (INS).

Or

- (b) Differentiate Between Datum and Datum Point.

14. (a) Explain in brief about the importance of performance calculation of aircraft.

Or

- (b) Briefly explain how the pilot maintains the centre of gravity of his aircraft.

15. (a) How TCAS works? Explain in detail.

Or

- (b) Explain in brief about the importance of performance calculation of aircraft.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) How the performance of an airplane is evaluated — Explain in detail.

Or

- (b) Explain in detail about the method followed in finding out EWCG of a large aircraft.
17. (a) Discuss in detail about structural limitations of an aircraft.

Or

- (b) Write in detail about the Global Positioning Systems (GPS).
18. (a) Define
- (i) Heading
 - (ii) Track
 - (iii) Route
 - (iv) Magnetic heading
 - (v) True heading.

Or

- (b) Explain with neat diagrams
- (i) True North
 - (ii) Magnetic North
 - (iii) Compass North

CP-9237

Sub. Code

27

B.Sc. DEGREE EXAMINATION, APRIL 2018

Second Year

Aviation

LOGISTICS AND AIR CARGO MANAGEMENT

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define logistics.
2. What is S.C.M?
3. Define strategy.
4. Explain global market.
5. What is E.O.Q?
6. What is reverse logistics?
7. Define D.R.P.
8. What is outbound logistics?
9. What is cargo zone?
10. Define TQM.

Part B

(5 × 5 = 25)

Answer **all** questions

11. (a) Explain various functions of logistics.

Or

(b) Explain alternative warehousing.

12. (a) Explain the various types of air cargo.

Or

(b) Explain various functions of logistics management.

13. (a) Explain the role of various channels members in logistics.

Or

(b) Explain government role in regulating road transport.

14. (a) Explain various purpose of holding inventory.

Or

(b) Explain the importance of information technology in logistics.

15. (a) Explain various types of packaging.

Or

(b) Explain logistics in global organization.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Discuss the facilities in air cargo terminals.

Or

- (b) Explain the various types of cargo services.

17. (a) How is various air cargo tariffs worked out for different types of cargos?

Or

- (b) Explain international documentation.

18. (a) What are the advantages and disadvantages of various modes of transport?

Or

- (b) Explain various types of material handling equipments used in cargo handling.

CP-9238

Sub. Code

28

B.Sc. DEGREE EXAMINATION, APRIL 2018

Second Year

Aviation

PUBLIC RELATIONSHIP IN THE AVIATION INDUSTRY

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. Define service marketing.
2. What is market segmentation?
3. What is marketing mix?
4. What is product positioning?
5. Name two service differentiation strategies.
6. What do you understand by the term electronic media?
7. What is crisis management?
8. What is hospitality?
9. Define Airport Operator.
10. Who is a P.R personnel? What do they do?

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Briefly explain the nature of services.
Or
(b) Explain the importance of relationship marketing in aviation industry.
12. (a) Explain different positioning strategies in aviation industry.
Or
(b) Define Tourism. State and explain the different types of users of tourism services.
13. (a) Explain some of the issues that are involved in public relations.
Or
(b) What are the Do's and don'ts in media handling?
14. (a) Explain the four steps involved in public relations process.
Or
(b) How can a public relation officer prepare for a crisis at the airport?
15. (a) What are the objectives of Public Relations?
Or
(b) Briefly explain the following terms :
(i) Human Relations
(ii) Empathy
(iii) Persuasion
(iv) Dialogue.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) Explain elements of marketing mix in relation to aviation industry giving suitable examples for each marketing mix.

Or

- (b) Explain the strategies for successful Public Relation personnel in an organization.

17. (a) Explain various bases of market segmentation in relation to aviation industry.

Or

- (b) Define crisis. Explain various ways of managing crisis at Airports.

18. (a) What is pricing? What are the various kinds of pricing?

Or

- (b) What is electronic media? Explain in detail.

CP-9239

Sub. Code

29

B.Sc. DEGREE EXAMINATION, APRIL 2018

Second Year

Aviation

FLIGHT SAFETY AND SUPPORT SYSTEMS

(2017 onwards)

Time : 3 Hours

Maximum : 75 Marks

Part A

(10 × 2 = 20)

Answer **all** questions.

1. What a signal man should do and where he should be standing?
2. Write short note on 'tie down anchor'.
3. What you understand by Mooring?
4. What is purpose of single base jack?
5. What is taxi track?
6. What is fire? State its classification.
7. How the Fire extinguisher is marked for identifying?
8. Why bleeding is necessary for hydraulic brakes system?
9. What is the purpose of electrical power unit?
10. Describe pressure-oil Unit.

Part B

(5 × 5 = 25)

Answer **all** questions.

11. (a) Describe Jacking operation of Aircraft.

Or

- (b) Write short note on Aircraft cleaning.

12. (a) Briefly explain about Control Tower.

Or

- (b) Briefly explain the Airfield lighting system.

13. (a) Describe portable hydraulic test rig.

Or

- (b) State the safety precautions to be observed while using the Hoisting crane.

14. (a) Describe the steps involved in flying control rigging.

Or

- (b) State the various occasions for 'symmetry check'.

15. (a) State the procedure for Shock strut charging.

Or

- (b) Write short note on:

- (i) Dragging brakes
(ii) Excessive Brake pedal Travel.

Part C

(3 × 10 = 30)

Answer **all** questions.

16. (a) State the Mooring of an aircraft in the adverse weather condition.

Or

- (b) Describe the Towing procedure.

17. (a) Describe in detail the Runway markings.

Or

- (b) Describe Electrical Power supply equipment with its operating procedure.

18. (a) What is the significance and describe Symmetry checks?

Or

- (b) Describe the disassembly and assembly of tire from wheel.
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